

speco technologies®

Video Security Products

CCTV Catalog 09



H.E.A.T. Cameras
Speed Domes & Accessories
Digital Video Recorders
Intensifier 2 Series
IP Cameras
Focus Free Cameras
Video Accessories
LCD Monitors
Wireless Camera Equipment
LCD Monitors
CCTV Lenses, Cables





Speco Technologies is proud to introduce our latest product catalog. We believe you will find the new format informative and easy to read. This catalog represents our products, services and employees, as well as our desire for Speco Technologies' to be the best supplier in the industry.

For over 49 years we at Speco Technologies have dedicated ourselves to providing the highest quality video products for residential and commercial use, as well as the latest innovations in residential and commercial audio. Our mission and focus for the future is very clear. We will continue to be an innovator in the DVR and CCTV camera market, as well as the commercial audio business. Our future plans will involve coordinating the converging of IP networking, surveillance and the addition of two-way communication in all of our products.

We live in challenging times, and Speco's full line of products offer solutions for peace of mind and security.

Committed to Customers

Customer Service is not a Department . . . It's our mindset.

Most companies will talk about customer service, yet they don't really understand what it is. Customer service is about caring for your customers like they are family. It's about understanding that if someone is spending good money on your products and services, that you should be thankful for their business. It's about treating their project as if it was your very own, and going the extra mile to make sure it turns out great. It's about exceeding the customer's expectations every single time.

We are so Easy to work with.

We strive to make video and audio products and services as reliable and convenient as possible. We know the stress our customers are under and feel that the easier we can make it for you, the easier it is to do business with us. You'll hear the words "No Problem" when you have a special request.

Need Help?

This is where we really shine! Many of our customers don't realize or understand all of the many options that are available to them when it comes to video and access products. Just tell us how you are planning to use the products and we will make several suggestions based on application, quality and ease of use. We can even help with designing your system. We're here for YOU.



Contact Us @ 800-645-5516



H.264 HYBRID Pentaplex DVR with Network/DDNS Video Server

HYBRID DVR
Compatible with IP & Analog Cameras

DVR4TH250*

4 Channel Pentaplex H.264 DVR

DVR8TH250*

8 Channel Pentaplex H.264 DVR

DVR16TH250*

16 Channel Pentaplex H.264 DVR



Includes

Digital Deterrent™
On all channels

Audio For Security or Retail Applications



Learn one unit - know them all!



Rear View



Remote & Rack Ears Included

TH Series Features

EZ Record: set the number of days you want to record and the DVR takes care of the rest

EZ Copy: auto copy what you are playing onto a DVD/RW or USB flash drive

EZ Set-Up: for quick installation

- Free Speco DDNS server for use with dynamic IP addresses
- Hybrid Operation: Up to 4 channels with popular protocols supported including Speco, SIP, ACTi, Axis, Sony, Vivotek, Hunt, Sanyo & others
- Selectable H.264, MPEG4, or MJPEG compression
- POS/ATM support with text overlay and searchable database
- Pentaplex operation enabling simultaneously view live or playback while continuing to record & network transfer
- Remote monitoring, recording, playback, change system settings and dome camera control via network and/or internet
- Jog shuttle for easy operation
- Real Time live display
- IR Remote control included - individually control up to 16 DVRs
- Recording rate up to 120pps
- 4/8/16 channels of audio input
- 3/7/15 channels of 2-way audio
- Supports 3 SATA HDDs
- Dedicated Gigabit NIC for NAS storage expansion
- DVD/RW Standard for video clip exporting
- USB 2.0 port for video clip exporting, supports USB Thumbdrive
- Easy software upgrade via Network, USB Thumbdrive, or CD/DVD
- Configurable per channel normal and event recording frame rate & picture quality or globally via EZ record
- Free Central Management System (CMS) software allows viewing of 256 simultaneous channels on a PC
- Email notification of alarm events
- Per channel built-in dome camera protocol (through RS485): including Pelco D, Pelco P, Panasonic, Panasonic C, AD422, Fastrax, JVC
- Automatic camera detection (Plug & Play)
- Digital Zoom 2 x 2 in live mode and playback
- Covert camera operation provides enhanced security and administrator control
- Dynamically programmable recording priority, motion detection, alarms and scheduling
- Programmable call-monitor switching sequence
- Up to 30 second pre-alarm recording
- USB mouse and keyboard supported
- Rack ears included
- Multiple language on-screen menus
- Password to secure installation with 8 configurable user authentication levels
- Network software supports static IP, DHCP, PPPoE & DDNS
- Network hardware supports 10/100/1000 NIC
- Dimensions: 4 7/8" H X 17 1/4" W X 16 3/4" D
- Weight: 18.45 lbs. with 1 HDD (HDD weighs 1 lb.)
- Power Consumption: Start up @ 90W, Running @ 60W
- HDD size: 250GB, 1TB, 2TB and 3TB configurations
- Operating temperature: 14° F to 120° F

***Standard DVR comes with a 250GB HDD. Other configurations available up to 3TB internal.**

TH Series Specifications: 4, 8 or 16 Channel H.264 Pentaplex DVR with 250GB HDD

	MODEL NAME			DVR4TH250	DVR8TH250	DVR16TH250
Video	Operation System			Embedded (Linux)		
	Video Standard			NTSC/PAL switch selectable		
	Video Operation			Pentaplex+ (Live, Record, Playback, Remote, and Internet access)		
	Resolution – Live Video			NTSC: 720 x 480 pixels PAL: 720 x 576 pixels		
	Input			BNC x 4, 1.0Vp-p/75 ohm	BNC x 8, 1.0Vp-p/75 ohm	BNC x 16, 1.0Vp-p/75 ohm
	Outputs	Main Monitor		VGA x 1, BNC x 1, S-Video x 1, 1.0Vp-p/75 ohm		
		Call Monitor		BNC x 1 1.0Vp-p/75 ohm		
		Looping		BNC x 4, 1.0Vp-p/75 ohm	BNC x 8, 1.0Vp-p/75 ohm	BNC x 16, 1.0Vp-p/75 ohm
	VGA Output			800 x 600, 1024 x 768, 1280 x 1024 pixels @ 60Hz, 75Hz		
	Picture Refresh Rate (Live View)			NTSC: 480 PPS (16 CH) / PAL: 400 PPS (16 CH)		
Digital Zoom (Live & Playback)			2 x 2			
Camera Installation			Plug & Play			
Audio	Input			4, Line-In	8, Line-In	16, Line-In
	Main Output			RCA x 1, Line-Out		
	Output			4, Line-Out	8, Line-Out	16, Line-Out
	2-Way Audio			3/7/15 Channels Supported		
	Recording Mode			Always Real Time Record, Synchronized w/ Video		
	Compression Method			ADPCM, G.726		
	File Size			8KB/Sec.		
	Operation			Remote		
Recording	Playback			Only for Video Original Speed		
	Compression Method			H.264 / MPEG4 / MJPEG		
	Recording Mode			Schedule, Alarm, Motion Detection		
	Pre-Alarm			0~30 sec		
	Resolution & Rate	NTSC	720x480:	60 pps		
			720x240:	120 pps		
		PAL	720x576:	50 pps		
			720x288:	100 pps		
	Recording Quality			8 levels presets, adjustable		
	Image Size			2K to 24K Byte/picture		
Storage Mode			Linear/Circular			
Playback	Playback			Play, Stop, Pause, Rewind, Forward, Search		
	Playback Speed Adjustment			Yes 1X, 2X...32X		
	Retrieve			Date/Time, Event Playback		
	Data Life Time			Yes (Programmable)		
Storage	Built-in Storage			X4 SATA, HDD/DVD+RW		
	Built-in HDD			Up to 3 built-in HDDs (3TB max.)		
	External Storage			NAS via GB NIC model # DVRTNAS		
	Export			USB2.0 ports, X4, support ThumbDrive®, or DVD+RW		
Alarm	Alarm Input			X4, Terminal Block	X8, Terminal Block	X16, Terminal Block
	Alarm Detection			N.C./N.O., Programmable		
	Auditory Alert			Built-in Buzzer		
	Motion Detection			15 X 11 Grid Array, Sensitivity, Trig Level Adjustable		
	Video Loss Detection			Programmable		
	Alarm Relay Output			X2, Terminal Block, 1.0A/24V (Programmable)		
Communi- cation	Network Connectivity			Ethernet RJ-45 connector, 10/100/1000Mbps, supports DHCP/PPPoE/DDNS		
	Remote Control Software			SpecoRemote™ / CMS		
	Access Remote			8 Levels		
	Remote Operation			Monitoring, Playback, Recording, System Setup, Dome Camera Control		
	RS232C			D-sub 9 pin female		
	RS485			Terminal Block		
	Dome Control Protocol			Pelco D, Pelco P, Panasonic, Panasonic C, AD422, Fastrax, JVC		
	IP Cameras			Up To 4 Channels		
	IP Camera Protocols			Speco, ACTi, Axis, Sony and Vivotek		

**KEEP THE
POWER ON!**

WITH OUR UNINTERRUPTIBLE
POWER SUPPLIES
See pages 83-84

CMS
CENTRAL MANAGEMENT SOFTWARE
See pg 12-13 for details.

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PO\$

**FREE
DDNS!**

**3 YEAR
WARRANTY**



Check out our CAT5
Video Accessories
on pages 72-79



Rear View

Learn one unit - know them all!

TN Series Features

EZ Record: set the number of days you want to record and the DVR takes care of the rest

EZ Copy: auto copy what you are playing onto a CD/RW or USB flash drive

EZ Set-Up: for quick installation

- Free DDNS server for use with dynamic IP addresses
- IR Remote control included Extra IR Remote Controls
Available Under Part # DVRTNRC
- MPEG-4 high quality compression, 5~10 times smaller than MJPEG
- Triplex operation enabling simultaneously view live or playback while continuing to record & network transfer
- Remote monitoring, recording, playback, change system settings and dome camera control via Network and/or Internet
- Jog shuttle for easy operation
- Real Time live display
- Recording Rate: Up to 120pps
- 1 Channel in out for audio recording
- 1 Optical drive + up to 3 internal HDD
- IEEE-1394 for extended storage
- Built-in CD-RW or DVD+RW for video clip
- BuidPXTXBOSPSTWBzj*±JaK°zp*±JnK°zp*±JdK°zp*±bRSdOTV°zp*±JdK°zp*±JoK°zp*±JmK°zp*±JeKS°zp*±bRSdOTV°zp*±JcK°zp*±JaWBz*±JrJaK°zp*

*** Standard DVR comes with a 160GB HDD. Other configurations available up to 2.25 TB internal**

TN Series Specifications: 4, 8 or 16 Channel MPEG-4 Triplex DVR with 160GB HDD

	MODEL NAME		DVR4TN160	DVR8TN160	DVR16TN160
Video	Operation System		Embedded (Linux)		
	Video Standard		NTSC/PAL switch selectable		
	Video Operation		Triplex+(Live, Record, Playback , Remote, and Internet access)		
	Video Resolution Live		NTSC: 720 x 480 pixels		
	Input		BNC x 4, 1.0Vp-p/75 ohm	BNC x 8, 1.0Vp-p/75 ohm	BNC x 16, 1.0Vp-p/75 ohm
	Composite Outputs	Main Monitor	BNC x 1, S-Video x 1, 1.0Vp-p/75 ohm		
		Call Monitor	BNC x 1, 1.0Vp-p/75 ohm		
		Loop	BNC x 4, 1.0Vp-p/75 ohm	BNC x 8, 1.0Vp-p/75 ohm	BNC x 16, 1.0Vp-p/75 ohm
	VGA Output		800 x 600, 1024 x 768, 1280 x 1024 pixels @ 60Hz		
	Live Picture Refresh Rate		NTSC: 480 PPS(16CH)		
Digital Zoom		2 x 2			
Camera Installation		Plug & Play			
Audio	Input		RCA x 1, Line-In		
	Output		RCA x 1, Line-Out		
	Recording Mode		Always Real Time Record, Synchronized w/ Video		
	Compression Method		ADPCM, G.726		
	File Size		8KB/Sec		
	Operation		Remote + VCR mode		
	Playback		Only for Video Original Speed		
Video Recording	Compression Method		MPEG-4 Advanced Simple Profile		
	Recording Mode		Schedule, Alarm, Motion Detection		
	Pre-Alarm		0~30 sec		
	Resolution & Rate	NTSC	720x480: 30 pps		
			720x240: 60 pps		
		PAL	360x240: 120 pps		
			720x576: 25 pps		
	720x288: 50 pps				
	360x288: 100 pps				
	Recording Quality		5 levels, adjustable		
Image Size		2K to 20K Byte/picture			
Storage Mode		Linear/Circular			
Playback	Playback		Play, Stop, Pause, Rewind, Forward, Search		
	Playback Speed Adjustment		1X, 2X...32X		
	Retrieve		Date/Time, Event		
	Data Life Time		Programmable		
Storage	Built-in Storage		X2 ATA 133 / UDMA 133 IDE, HDD/CD-RW/DVD+RW		
	Built-in HDD		Up to 3 built-in HDDs		
	External Storage		NAS via GB NIC model # DVRTNAS		
	Export		X3 USB2.0 ports, support Thumb Drive®, CD-RW, or DVD+RW		
Alarm	Alarm Input		X4, Terminal Block	X8, Terminal Block	X16, Terminal Block
	Alarm Detection		N.C./N.O., Programmable		
	Auditory Alert		Built-in Buzzer		
	Motion Detection		21 X 13(NTSC), 21 X 16(PAL) Grid Array, Sensitivity, Trig Level Adjustable		
	Video Loss Detection		Programmable		
	Alarm Relay Output		X2, Terminal Block, 1.0A/24V (Programmable)		
Communication	Network Connectivity		Ethernet RJ-45 connector, 10/100Mbps, supports DHCP/PPPoE/DDNS		
	Remote Control Software		Internet Explorer		
	Access Control		2 Level Password		
	Remote Operation		Monitoring, Playback, Recording, System Setup, Dome Camera		
	RS232C		D-sub 9 pin female		
	RS485		Terminal Block		
	Dome Control Protocol		Pelco P, Pelco D, AD422, Fastrax, DynaColor		
IR Remote Control		Programmable For Up to 16 DVRs			

KEEP THE POWER ON!

WITH OUR UNINTERRUPTIBLE POWER SUPPLIES
protect computer/security equipment against
power failure, power surge and power sag.
[See pages 83-84](#)

240/480FPS H.264 Triplex DVR with Network/DDNS Video Server

**Real Time
Recording & Playback!**

DVR16TT750 only

DVR16TT750*

16 Channel Triplex MPEG4 DVR
480fps - Real Time Recording

DVR16TS750*

16 Channel Triplex MPEG4 DVR
240fps - Real Time Recording



Rear View



TT and TS Series Features

EZ Record: set the number of days you want to record and the DVR takes care of the rest
EZ Copy: auto copy what you are playing onto a CD/RW or USB flash drive
EZ Set-Up: for quick installation

- IP Camera support
- Recording Rates: 240 & 480fps
- Free DDNS server for use with dynamic IP addresses
- Email notification of alarm events
- MPEG4 high quality compression,
- Triplex operation enabling simultaneous view live or playback while continuing to record & network transfer
- Remote monitoring, recording, playback, change system settings and dome camera control via Ethernet and/or Internet
- Touch Panel, Virtual Jog shuttle for easy operation
- Real Time live display
- IR Remote control & power supply included
- 16 Channel in out for audio recording**
- CD-RW or optional DVD-RW + up to 3 internal HDD
- Additional storage up to 2.25TB
- Built-in or DVD+RW for video clip exporting
- USB 2.0 port for video clip exporting, supports USB thumb drive
- Easy software upgrade via Network, USB Thumb Drive, or CD-RW
- Configurable normal and event recording frame rate & picture quality per channel or globally via EZ record
- Multiple built-in dome camera protocol (through RS485): including Pelco D, Pelco P, AD422, Fastrax, DynaColor, JVC
- Automatic camera detection (Plug & Play)
- Digital Zoom 2 x 2 in live mode
- Covert camera operation provides enhanced security and administrator control
- Dynamically programmable recording priority, motion detection, alarms, and scheduling
- Programmable call-monitor switching sequence
- Up to 30 sec pre-alarm recording
- USB mouse support for user-friendly operation
- Multiple language on-screen menus
- Password to secure installation authorization
- Network software supports static IP, DHCP, PPPoE and DDNS
- Network hardware supports 10/100M bps
- Dimensions: 4 7/8" X 17 1/4" X 16 3/4"
- Weight: 18.45 lbs with 1 HDD (HDD weighs 1 Lbs)
- Power Consumption: Start up @ 90 Watts, Running @ 60 Watts
- Heat Dissipation: 3.42 BTU/Minute
- HDD size: 750GB, 1.5TB, 2.25TB)
- Operating temperature: 14° F to 120° F

**Check out our CAT5 Video Accessories
on pages 72-79**

* Standard DVR comes with a 750GB HDD. Other configurations available up to 2.25 TB internal

** Using optional audio box



Digital Deterrent™

Audio For Security or Retail Applications

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See pages 83-84

TT and TS Series Specifications: 16 Channel MPEG-4 Triplex DVR with 750GB HDD

	MODEL NAME		DVR16TS/750	DVR16TT/750
Video	Operation System		Embedded (Linux)	
	Video Standard		NTSC/PAL switch	
	Video Operation		Triplex+(Live, Record, Playback , Remote, and Internet access)	
	Resolution – Live Video		NTSC: 720 x 480 pixels	
	Input		BNC x 16, 1.0Vp-p/75 ohm and supports IP Cameras	
	Outputs	Main Monitor	BNC x 1, S-Video x 1, 1.0Vp-p/75 ohm	
		Call Monitor	BNC x 1, 1.0Vp-p/75 ohm	
		Loop	BNC x 16, 1.0Vp-p/75 ohm	
	VGA Output		800 x 600, 1024 x 768, 1280 x 1024 pixels @ 60Hz	
	Live Picture Refresh Rate		NTSC: 480 PPS(16CH)	
Digital Zoom		2 x 2		
Camera Installation		Plug & Play		
Audio	Input		RCA x 16, Line-In	
	Output		RCA x 16, Line-Out	
	Recording Mode		Always Real Time Record, Synchronized w/ Video	
	Compression Method		ADPCM, G.726	
	File Size		8KB/Sec	
	Operation		Remote + VCR mode	
	Playback		Only for Video Original Speed	
Recording	Compression Method		MPEG-4	
	Recording Mode		Continuous, Schedule, Alarm, Motion Detection	
	Pre-Alarm		0~30 sec	
	Resolution & Rate	NTSC	720x480: 60 pps	120 pps
			720x240: 120 pps	240 pps
			360x240: 240 pps	480 pps
		PAL	720x576: 50 pps	100 pps
			720x288: 100 pps	200 pps
360x288: 200 pps		400 pps		
Recording Quality		5 levels, adjustable		
Image Size		2K to 20K Byte/picture		
Storage Mode		Linear/Circular		
Playback	Playback		Play, Stop, Pause, Rewind, Forward, Search	
	Playback Speed Adjustment		1X, 2X...32X	
	Retrieve		Date/Time, Event	
	Data Life Time		Programmable	
Storage	Built-in Storage		X2 ATA 133 / UDMA 133 IDE, HDD/CD-RW/DVD+RW	
	Built-in HDD		Up to 3 built-in HDDs	
	External Storage		X2 IEEE 1394 ports	
	Export		X3 USB2.0 ports, support Thumb Drive®, CD-RW, or DVD+RW	
Alarm	Alarm Input		X16, Terminal Block	
	Alarm Detection		N.C./N.O., Programmable	
	Auditory Alert		Built-in Buzzer	
	Motion Detection		21 X 13(NTSC), 21 X 16(PAL) Grid Array, Sensitivity, Trig Level Adjustable	
	Video Loss Detection		Programmable	
	Alarm Relay Output		X2, Terminal Block, 1.0A/24V (Programmable)	
Communication	Network Connectivity		Ethernet RJ-45 connector, 10/100Mbps, supports DHCP/PPPoE/DDNS	
	Remote Control Software		Internet Explorer	
	Access Control		2 Level Password	
	Remote Operation		Monitoring, Playback, Recording, System Setup, Dome Camera Control	
	RS232C		D-sub 9 pin female	
	RS485		Terminal Block	
	Dome Control Protocol		DynaColor, Pelco P, Pelco D, AD422, Fastrax, JVC, DynaColor	
	IR Remote Control		Programmable For Up To 16 DVRs	

Triplex DVR with Network/DDNS Video Server

Check out our CAT5
Video Accessories
on pages 72-79

DVR4TL160*

4 Channel Triplex MPEG-4 DVR

DVR8TL160*

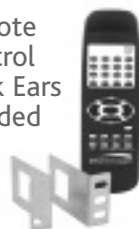
8 Channel Triplex MPEG-4 DVR

DVR16TL160*

16 Channel Triplex MPEG-4 DVR



Remote
Control
& Rack Ears
Included



Rear View

TL Series Features

EZ Record: set the number of days you want to record and the DVR takes care of the rest

EZ Copy: auto copy what you are playing onto a USB flash drive

EZ Set-Up: for quick Installation

- Free DDNS server for use with dynamic IP addresses
- MPEG-4 high quality compression, 5~10 times smaller than MJPEG
- Triplex operation enabling simultaneous live view or playback while continuing to record & network transfer
- Remote monitoring, recording, playback, change system settings and dome camera control via Ethernet and/or Internet
- Recording Rate: Up to 120pps
- 1 Channel in/out for audio recording
- USB 2.0 port for video clip exporting, supports USB ThumbDrive®
- Easy software upgrade via USB ThumbDrive®
- Multiple built-in dome camera protocol (through RS485): including Pelco D, Pelco P, AD422, Fastrax, DynaColor, JVC, Panasonic
- Automatic camera detection (Plug & Play)
- Digital Zoom 2 x 2 in live mode, playback
- Covert camera operation provides enhanced security and administrator control
- Dynamically programmable recording priority, motion detection, alarms, and scheduling, continuous
- Programmable call-monitor switching sequence
- Multiple language on-screen menus
- Password to secure installation authorization
- Network software supports static IP, DHCP, PPPoE and DDNS
- Network hardware supports 10/100M bps
- Dimensions: 2" (H) X 17 1/4" (W) X 16 1/8" (D)
- Weight: 18 lbs. with 1 HDD (HDD weighs 1 lb.)
- Power Consumption: Start up @ 80 Watts, Running @ 50 Watts
- Heat Dissipation: 2.85 BTU/Minute
- HDD size: 160GB, 320GB, 750GB
- Operating temperature: 32° F to 104° F
- Web-based remote software
- Remote control, rack ears & I/O connect all included

* Standard DVR comes with a 160GB HDD. Other configurations available up to 1.5TB internal

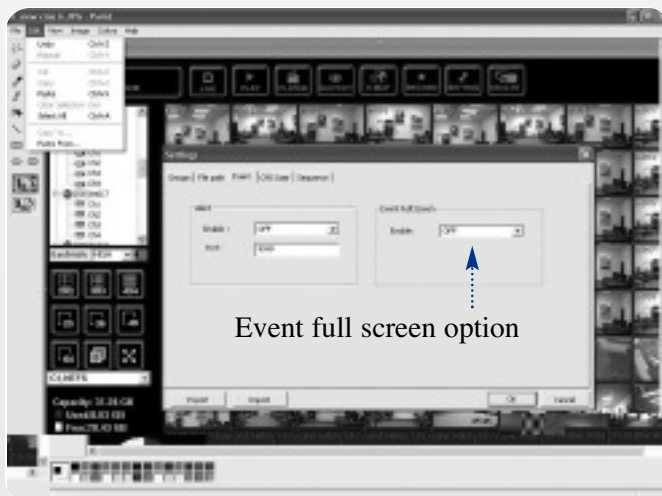
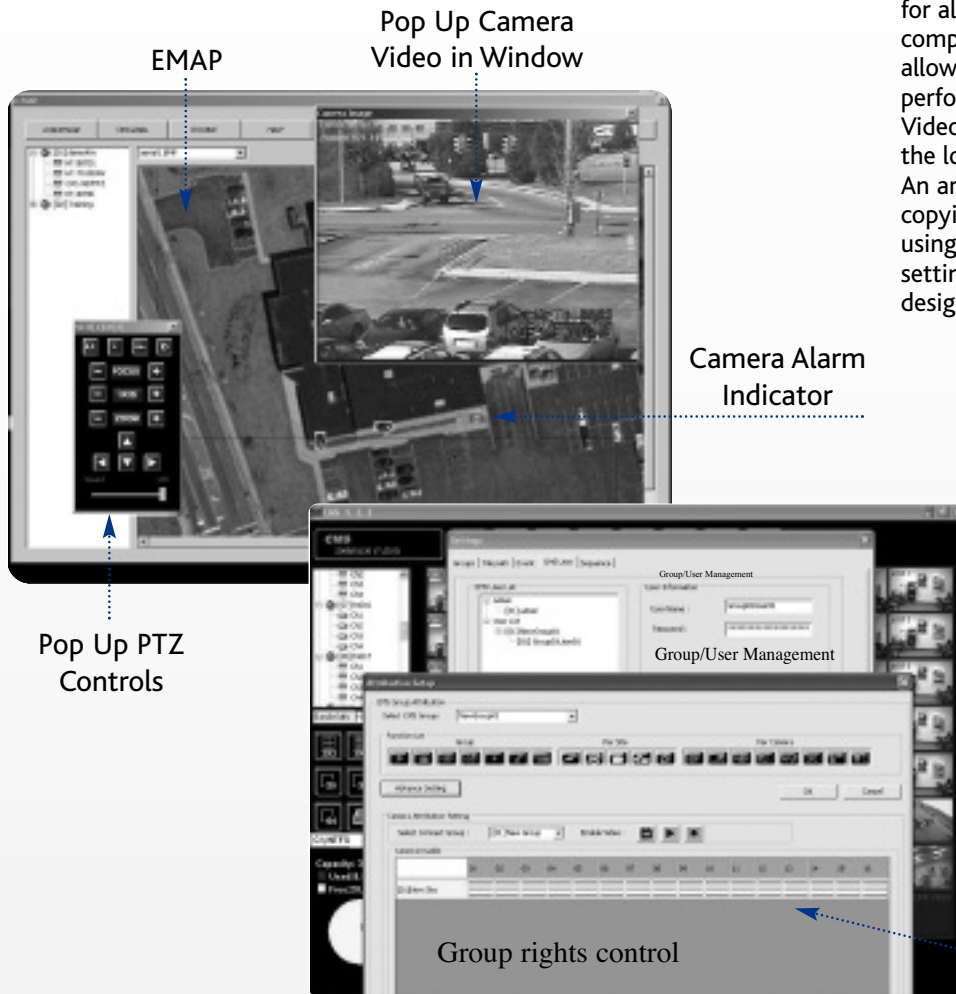
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power failure, power surge and power sag.
See pages 83-84

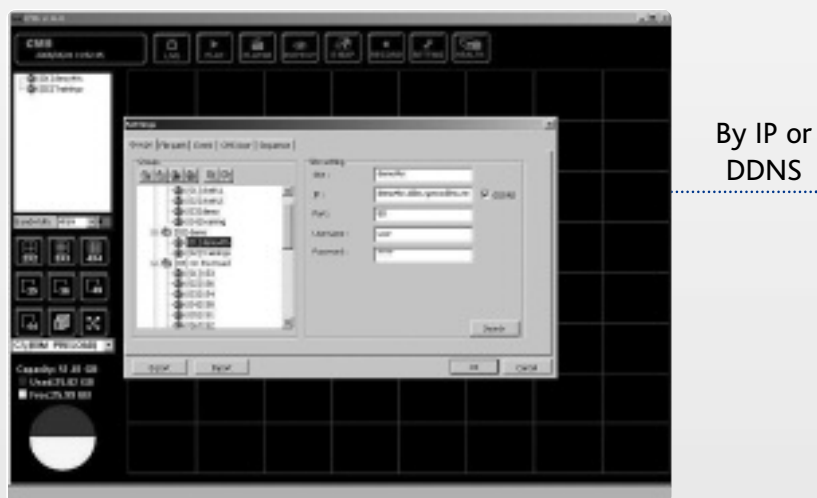
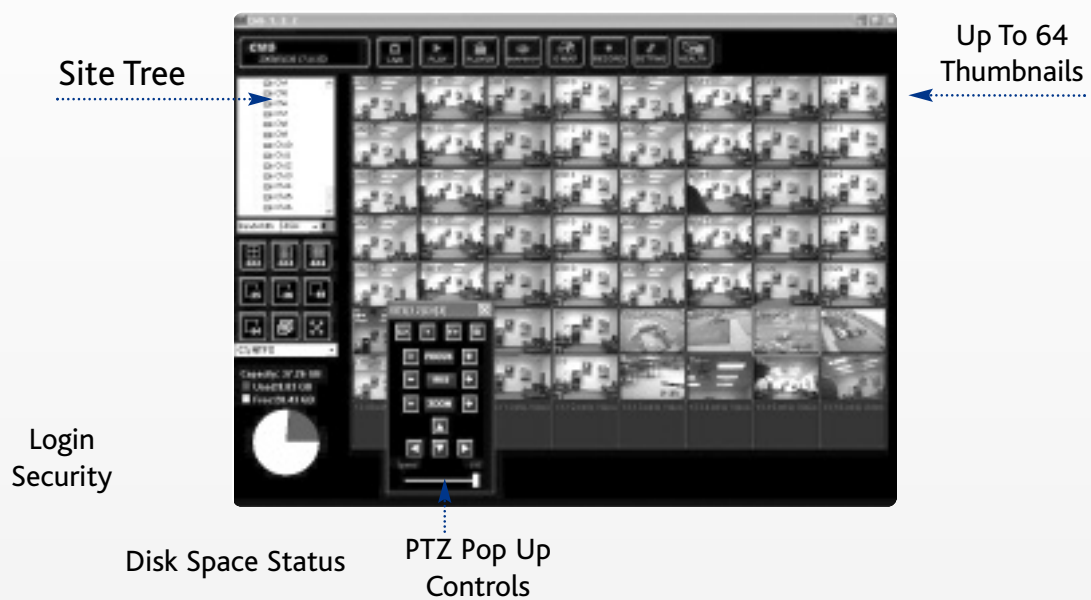
Q3

Features for TL, TN, TH,

Speco Technologies' CMS software supports full PTZ and focus control for all capable cameras. There is a complete configuration menu allowing most functions to be performed remotely at the host PC. Video can be easily recorded to the local PC and played back. An archive feature allows block copying of all DVR cameras by using configurable time and date settings to the local drive and a designated file path.



**Please visit our website to
discover the full power of
our CMS Software
www.specotech.com**





PC PRO 8 and 16 Channel



PC Pro Series Features

SEARCH & PLAYBACK

- 1, 4, 8, 9, 13, 16 multi-camera display modes
- Synchronized multi-screen playback
- Full-function playback (play, rewind, fast-forward)
- Search filters for playback (date & time, camera, area, event, vision, POS/ATM, and log file)
- Image enhancement (brightness, contrast, gray, high pass, edge enhancement)
- Playback with 15x image zoom/image enhancement
- Still image print capability
- External HDD supported (USB, Network, NAS)
- Live data backup to network drive (NAS)
- Offsite data archiving
- Still image save with image verification utility
- Multiple still image export
- MPEG, .AVI or Proprietary .DVR backup formats
- Simultaneous local, remote and archive video viewing

REMOTE SURVEILLANCE

- Client software (Windows 2000, XP and Vista)
- PDA software (Windows CE)
- Smartphone software (Sybian / Windows compatible)
- TCP/IP remote network
- Unlimited number of connections on web viewer, 1,000 DVRs can be connected on CMS
- Remote transmission (live view, playback, file copy, audio, & event log)
- Remote control (Pan/Tilt/Zoom, auxiliary devices, alarm, & mini center)
- Unlimited connection time
- User log with search filters for remote access

SENSORS & ALARMS

- 4 sensor inputs (dry contact N/C, N/O)
- 4 alarm outputs (relay contact 3A 120VAC or 3A 24VDC)
- RS-232 output
- Software selectable sensor input type
- Adjustable alarm hold time (1-3,600 sec)
- Full screen mode for sensed camera

- Motion detection, video loss, voice detection, sensor trigger, abnormal event, POS keyword and alarm message alarms
- Smart Alarm Functions include launching E-Map, full screen cameras, audible warning, email notification, phone call, FTP files, SMS/MMS messaging and PTZ camera
- LCD alarm indicator on front panel
- Sensor input indicator

EVENT LOG & SEARCH

Logs:

- Sensor event
- Recording start/stop
- Date & time change
- Password change
- Settings change
- System power on/off
- System power recovery
- HDD failure, reboot
- Remote access users
- Unlimited number of events stored
- Event search filter (date & time, event, operation, system, network, POS viewer)
- Sensor event playback
- Search filter for sensor event playback (date & time, camera)
- Full or multi-screen sensor event playback

SECURITY & MAINTENANCE

- Image file encryption
- Auto rebooting after power failure
- Auto recovery of system files
- Auto recovery of data files
- Hardware watchdog (initiates conditional reboot)
- Passwords
- System access
- Set-up access (administrator)
- Remote access

Available models:

DVRPC8P24500
DVRPC8P241TB
DVRPC16P48500
DVRPC16P481TB

Models are available up to 4TB

H.264/MPEG4 HYBRID Pentaplex DVR

Supports Both Analog and IP Cameras

HYBRID DVR
Compatible with IP & Analog Cameras

PC PRO Series

DVRPC8P24

8 Channel PC Based Pentaplex DVR

DVRPC16P48

16 Channel PC Based Pentaplex DVR



Check out our CAT5 Video Accessories
on pages 72-79

PC Pro Series Features

GENERAL

- True hybrid DVR provides IP camera support on most popular brands
- Selectable software compression (H.264, MPEG-4)
- **Digital Deterrent™ ready**
- Supports POS integration
- Windows Embedded XP operating system
- Storage starts at 500GB available up to 4TB
- DVD/RW standard
- 8 or 16 camera inputs and loopouts
- 8 or 16 audio inputs
- 8 or 16 channel video loop-through
- Two-way audio (standard)
- 1 Gbps Ethernet interface
- 720x480, 640x480, 352x240 image sizes
- 240 & 480 fps total recording frame rate, configurable to divide across 8 or 16 channels
- 240 & 480 fps total live view frame rate, configurable to divide across 8 or 16 channels
- Advanced programmable motion detection with video analytics
- 4 sensor inputs
- 4 alarm outputs
- Pan/Tilt/Zoom control
- Password protection
- Still image save with image verification utility
- Still image print capability
- Fully integrated one-button backup to DVD-RW
- System failure handling with UPS support (auto rebooting with file recovery)
- Auto-sensing, auto protection power supply (100~127/200~240 VAC)
- Pentium E2160 (1.8GHz) dual core processor
- 1GB RAM
- 1280x1024 monitor resolution

- NTSC/PAL support

- Dimensions: 17" W x 4.25" H x 16.25" L 2.5RU H
- Remote control and rack ears included

MONITORING (LIVE VIEW) & RECORDING

- E-Map feature allows local and remote camera, alarm input and output selection from actual multi-level maps
- 1, 4, 8, 9, 13, 16 multi-camera & full screen display modes: VGA, composite, DVI & S-Video outputs
- Standard analog TV output (programmable, sequential & multiplexed)
- Adjustable multi-screen switching (3 sec to 10 sec. intervals)
- Covert camera mode (recording without viewing)
- Image quality adjustment (adjustable for individual cameras)
- Record and alarm on motion detection
- Unlimited number of motion detection zones
- Programmable motion detection sensitivity
- Fully programmable scheduled recording (1-hour increments; daily, weekly, monthly, date, or event)
- Sensor-based recording
- Motion alarm
- Camera input detection
- Camera image adjustment (brightness, contrast, chroma, hue)
- Daylight savings time adjustment (automatically synchronized)
- Estimated recording period (remaining disk space shown on GUI and built-in HDD calculator)
- HDD health monitor sends email, displays an OSD warning and sounds a local alarm if failure is detected

SEARCH & PLAYBACK

- 1, 4, 8, 9, 13, 16 multi-camera display modes
- Synchronized multi-screen playback
- Full-function playback (play, rewind, fast-forward, drag & drop)
- Search filters for playback (date & time, camera, area, event, vision, POS/ATM, and log file)
- Image enhancement (brightness, contrast, gray, high pass, edge enhancement)
- Live playback with 15x image zoom/image enhancement
- Still image print capability
- External HDD supported (USB, Network, NAS)
- Live data backup to network drive (NAS)
- Offsite data archiving
- Still image save with image verification utility
- Multiple still image export
- MPEG, .AVI or Proprietary .DVR backup formats
- Simultaneous local, remote and archive video viewing

REMOTE SURVEILLANCE

- Client software (Windows 2000, XP and Vista)
- CMPC software (Windows 2000, XP and Vista)
- PDA software (Windows CE)
- Smartphone software (Symbian / Windows compatible)
- TCP/IP remote network
- Unlimited number of connections on web viewer, 1,000 DVRs can be connected on CMPC
- Remote transmission (live view, playback, file copy, audio, & event log)
- Remote control (Pan/Tilt/Zoom, auxiliary devices, alarm, & mini center)
- Unlimited connection time
- User log with search filters for remote access

SENSORS & ALARMS

- RS-232 output
- Software selectable sensor input type
- Adjustable alarm hold time (1-3,600 sec)
- Full screen mode for sensed camera
- Motion detection, video loss, voice detection, sensor trigger, abnormal event, POS keyword and alarm message alarms
- Smart Alarm Functions include launching E-Map, full screen cameras, audible warning, email notification, phone call, FTP files, SMS/MMS messaging and PTZ camera

- LCD alarm indicator on front panel
- Sensor input indicator

EVENT LOG & SEARCH

Logs:

- Sensor event
- Recording start/stop
- Date & time change
- Password change
- Settings change
- System power on/off
- System power recovery
- HDD failure, reboot
- Remote access users
- Unlimited number of events stored
- Event search filter (date & time, event, operation, system, network, POS viewer)
- Sensor event playback
- Search filter for sensor event playback (date & time, camera)
- Full or multi-screen sensor event playback

SECURITY & MAINTENANCE

- Image file encryption
- Auto rebooting after power failure
- Auto recovery of system files
- Auto recovery of data files
- Hardware watchdog (initiates conditional reboot)
- Passwords
- System access
- Set-up access (administrator)
- Remote access

Available models: DVR8PCL250
DVR16PCL250

Models are available in 250GB, 750GB, 1TB, 2TB, 3TB & 4TB models.

Package Includes:

DVR Unit
Power Supply
Recovery DVD

Tool Kit DVD
USB Mouse
Video Input Cable

Quick Guide
User Manual
2 Year Limited Warranty



KEEP THE POWER ON!
WITH OUR UNINTERRUPTIBLE POWER SUPPLIES
protect computer/security equipment against
power failure, power surge and power sag.
See pages 83-84

PC-Based 8 or 16 Ch. Hybrid Pentaplex Digital Video Recorder with Advanced Features

*High-end PC DVR
performance at the cost
of an embedded unit*

DVR8PCL250 8 camera inputs

DVR16PCL250 16 camera inputs



PC -Based Pentaplex DVR Features

GENERAL

- True hybrid DVR provides IP camera support of most popular brands for up to 4 cameras
- Selectable software compression (H.264, MPEG-4, MJPEG)
- Digital Deterrent™ ready
- Supports POS integration
- Windows Embedded XP operating system
- 250GB standard, models available up to 4TB
- DVD/RW standard
- 8 or 16 camera inputs
- 4 audio inputs
- Two-way audio
- 1 Gbps Ethernet interface
- 720x480, 640x480, 352x240 image sizes
- 60 & 120 fps total recording frame rate
- 60 & 120 fps total live view frame rate
- Advanced programmable motion detection with video analytics
- Pan/Tilt/Zoom control
- Password protection
- Still image save with image verification utility
- Still image print capability
- Fully integrated backup to DVD-RW
- System failure handling with UPS support (auto rebooting with file recovery)
- Auto-sensing, auto protection power supply (100~127/200~240 VAC)
- 1GB RAM
- 4:3/16:9 monitor resolution support

- 32-bit color
- NTSC/PAL support
- Dimensions: 6.25" W x 11" H x 19.5" D

MONITORING (LIVE VIEW) & RECORDING

- E-Map feature allows local and remote camera, alarm input and output selection from actual multi-level maps
- 1, 4, 8, 9, 13, 16 multi-camera & full screen display modes: VGA, composite, DVI & S-Video outputs
- Adjustable multi-screen switching (3 sec. to 10 sec. intervals)
- Covert camera mode (recording without viewing)
- Image quality adjustment (adjustable for individual cameras)
- Record and alarm on motion detection
- 3 different motion detection zones
- Programmable motion detection sensitivity
- Fully programmable scheduled recording (1-hour increments; daily, weekly, monthly, date, or event)
- Sensor-based recording
- Motion alarm
- Camera input detection
- Camera image adjustment (brightness, contrast, chroma, hue)
- Daylight savings time adjustment (automatically synchronized)
- Estimated recording period (remaining disk space shown on GUI and built-in HDD calculator)

The missing link between VCRs and DVRs!

NEW

EZVR4 4 channel
EZVR8 8 channel



Finally, a recorder that is so unique and simple to use that we had to create a new

Product Category

EZVR Series Features

EZ Record: Using the front panel push button, select 24, 72, 240, 480 or 960 hours recording time. The EZVR does the rest. You do not have to worry about Frames Per Second, Compression or Quality Level settings.

Auto Record: If you do nothing more than plug the EZVR in and walk away it will automatically start recording using factory pre-sets. As close to fool-proof as you can get

EZ Playback/Search:
With just a touch of the front panel pushbutton.

EZ Backup: Using a USB Flash Drive or USB HDD via a front panel pushbutton.

NEW The Perfect VCR Replacement!



EZVR Series Features

EZ Record: Using the front panel pushbutton, select 24, 72, 240, 480 or 960 hours recording time. The EZVR does the rest. You do not have to worry about Frames Per Second, Compression or Quality Level settings.



Auto Record: If you do nothing more than plug the **EZVR** in and walk away it will automatically start recording using factory pre-sets. As close to fool-proof as you can get

EZ Playback/Search:

With just a touch of the front panel pushbutton.

EZ Backup: Using a USB Flash Drive or USB HDD via a front panel pushbutton. Player software and .avi conversion software is automatically downloaded eliminating the need for law enforcement agencies to load software onto their PCs.

THE EASIEST TO USE VIDEO RECORDER IN THE WORLD!
Comes with a **built-in 160GB HDD**
for up to 960 hours of recording.

MODEL	EZVR4/8	DVR8PCL/16PCL	DVRPC8P24/16P48
OPERATING SYSTEM	EMBEDDED LINUX	WINDOWS XP	WINDOWS XP
ANALOG VIDEO INPUTS	4/8	8/16	8/16
IP INPUTS REPLACE ANALOG	NONE	4 MAX	8/16
LOOPING ANALOG	NONE	NONE	NONE
MAIN MONITOR OUT	BNC or S-VHS	DVI-D (Digital) or VGA (Analog)	DVI-I (Analog) or VGA (Analog) or S-VHS
CALL MONITOR OUT	NONE	RCA	RCA
MAX INTERNAL DRIVES	1	3	3
FRONT DRIVE BAY	NONE	EMPTY FOR EXPANSION	EMPTY FOR EXPANSION
MAX TOTAL HDD	1	4	4
AUDIO INPUTS/OUTPUTS	1 INPUT /OUTPUT	4 INPUTS /OUTPUT	8/16 INPUTS / 1 OUTPUT
2-WAY AUDIO	N/A	REMOTE TO DVR	REMOTE TO DVR
DVD BURNER	NONE	SINGLE LAYER - 4.7GB	DUAL LAYER - 9.4GB
IR REMOTE	FULL CONTROL	NONE	FULL CONTROL
FRONT BUTTONS/DISPLAY	FULL CONTROL	NONE	FULL CONTROL
USB PORTS	1F	2F/4R	2F/4R
RELAY OUTPUTS	1-FORM C	2 SPST/1-C	4-FORM C
SENSOR INPUTS	4/8	4	4
ADDITIONAL STORAGE	NONE	NETWORK STORAGE	NETWORK STORAGE
ACCESSORIES	REMOTE CONTROLLER	MOUSE	MOUSE
FORM FACTOR	DESKTOP/RACK STYLE	TOWER DESKTOP PC	DESKTOP/RACK STYLE
PER CAMERA MAX PPS @ 720X480	N/A	7.5/3.75	15/10
PER CAMERA MAX PPS @ 640X480	N/A	7.5/3.75	30/15
PER CAMERA MAX PPS @ 720X240	N/A	N/A	NA
PER CAMERA MAX PPS @ 352X240	N/A	15/7.5	30/30
MAX TOTAL PPS FOR UNIT	60	120	240/480
COMPRESSION	MJPEG	H.264/MPEG-4/MJPEG	H.264/MPEG-4
FREE DDNS	N/A	YES	YES
ACCESS THROUGH INTERNET EXPLORER	N/A	LIVE/PLAYBACK/CONFIG/PTZ	LIVE/PLAYBACK/CONFIG/PTZ
MULTI-DVR VIEWING SOFTWARE	N/A	CMPC	CMPC
MULTI-DVR SOFTWARE INCLUDED	N/A	YES	YES
VIDEO ANALYTICS SUITE	N/A	STANDARD	STANDARD
uPnP	N/A	STANDARD	STANDARD
JAVA REMOTE PDA VIEWER	N/A	LIVE & PTZ	LIVE & PTZ
WINDOWS MOBILE MEDIA PLAYER	N/A	LIVE/PLAYBACK	LIVE/PLAYBACK

Comparison Chart

DVR Comparison Chart

DVR4TL/8TL/16TL	DVR4TN/8TN/16TN	DVR16TS/TT	DVR4TH/8TH/16TH
EMBEDDED LINUX	EMBEDDED LINUX	EMBEDDED LINUX	EMBEDDED LINUX
4/8/16	4/8/16	16	4/8/16
NONE	NONE	NONE	4 MAX
NONE	4/8/16	16	4/8/16
VGA, Composite	VGA, S-VHS, COMPOSITE	VGA, S-VHS, COMPOSITE	VGA, S-VHS, COMPOSITE
BNC	BNC	BNC	BNC
1	2	2	2
1	1	1	1
2	3	3	3
2 INPUTS / 2 OUTPUTS	2 INPUTS / 2 OUTPUTS	2 INPUTS / 2 OUTPUTS	4/8/16 INPUTS / 4/8/16 OUTPUTS
N/A	N/A	N/A	3/7/15 CHANNELS
NONE	SINGLE LAYER - 4.7GB	SINGLE LAYER - 4.7GB	SINGLE LAYER - 4.7GB
FULL CONTROL	FULL CONTROL	FULL CONTROL	FULL CONTROL
FULL CONTROL	FULL CONTROL	FULL CONTROL	FULL CONTROL
1F	2F/2R	2F/2R	2F/2R
1-FORMC	2-FORM C	2-FORM C	2-FORM C
4/8/16	4/8/16	16	4/8/16
ICY DOCK (EXPORT ONLY)	ICY DOCK	1GB LAN NAS BOX	1GB LAN NAS BOX
REMOTE CONTROLLER	REMOTE CONTROLLER	REMOTE CONTROLLER	REMOTE CONTROLLER
DESKTOP/RACK STYLE	DESKTOP/RACK STYLE	DESKTOP/RACK STYLE	DESKTOP/RACK STYLE
7.5/3.75/1	7.5/3.75/1	3.75/7.5	15/7.5/3.75
NA	NA	NA	NA
15/7.5/3.75	15/7.5/3.75	7.5/15	30/30/15
30/15/7.5	30/15/7.5	15/30	30/15/7.5
120	120	240/480	120
MPEG-4	MPEG-4/MJPEG	MPEG-4/MJPEG	H.264/MPEG4
YES	YES	YES	YES
LIVE/PLAYBACK/CONFIG/PTZ	LIVE/PLAYBACK/CONFIG/PTZ	LIVE/PLAYBACK/CONFIG/PTZ	LIVE/PLAYBACK/CONFIG/PTZ
CMS	CMS	CMS	CMS
YES	YES	YES	YES
NONE	NONE	NONE	NONE
NONE	NONE	NONE	STANDARD
LIVE/PLAYBACK	LIVE/PLAYBACK	LIVE/PLAYBACK	LIVE/PLAYBACK
LIVE/PLAYBACK	LIVE/PLAYBACK	LIVE/PLAYBACK	LIVE/PLAYBACK

- Compatible with major third party software suites such as Milestone Systems and ONSSI
- All cameras in the SIP series come with advanced NVR software at no extra charge
- Adjustable bandwidth to meet all network infrastructures
- Available in normal resolution and megapixel versions
- Power Over Ethernet* (IEEE 802.3af) and/or 12V DC
* POE not available on PTZ model SIPSD10X
- Features 2-way audio
- Works with Speco Technologies hybrid DVRs as well as other major manufacturers
- Video servers and decoders also available
- 5 year warranty

Normal Resolution Cameras
feature *Intensifier™ Technology*,
Network and Composite
Video Outputs

Weatherproof Bullets
2.8-11mm auto iris varifocal lens
Model: SIPB1

5-50mm auto iris varifocal lens
Model: SIPB2

Tamperproof/Weatherproof Domes
2.8-11mm auto iris varifocal lens
Model: SIPD3

5-50mm auto iris varifocal lens
Model: SIPD4

Motorized cfYHXHjXYIUZbTjYbYLj.PzQYaX.P.x.PvQX.eVXgZYHXHwQX.PtQYX.XlcbZX.Wu6HxHUYVf
5-50mmzp*±JaK°zpXWZSB±JaK°zp*±J°zpP[XxSd*TPgKS°zp*±JgKS°zp*±JZKS°zp*±bRgZ :mddYlk
2.8-11mv autVBRPWVSBg±JVF*SPTJeKS°zpbRSdOTV°zp*±JvKTW°zp*±JaK°zpbRSdOTV°JiK°zp*±*RBjnK°zp

IP SOLUTIONS

IP= Intelligent Protocol

The industry's first self networking IP camera automatically configures the router, receives an IP address and appears on the Internet within seconds!



For small business and residential applications

- Connect to your cameras from anywhere using a unique camera ID number and password
- Includes Free NVR software to view up to 16 cameras at a time
- View live and record from any PC in the world
- Up to 20 users can view simultaneously
- Scheduled recording on included NVR software
- Adjustable frame rate from 1 to 30 fps
- User selection for fps or image quality priority
- Bandwidth can be set for manual or automatic throttling
- PDA software
- CCD sensor
- Adjustable bandwidth from 64 KB to 1.5 MB
- Resolution up to 720 x 480
- Built-in motion detection
- 12V DC power supply and 6 ft. Ethernet cable included



DOMES Include a 2.9-10mm auto iris varifocal lens

Indoor Dome/black housing
Model: InProD3

Indoor Dome/white housing
Model: InProD3W

Tamperproof Dome/ivory housing
Model: InProTPD3

BULLETS Include a 3-9mm auto iris varifocal lens

Weatherproof Bullet Camera/black housing
Model: InProB67

Weatherproof Bullet Camera/white housing
Model: InProB67W

Traditional Camera-no lens
Model: InProT5

Check out our IP Video Accessories on page 79

Coming Soon!

InPro™ server with on-board recording, model INPROSR

IP SOLUTIONS "C" Protocol

- Weatherproof/Tamperproof
- 10x Optical Zoom 3.8mm-38mm
- 10x Digital Zoom
- 150° Per Second Movement
- Indoor/Outdoor Use
- Intensifier™ Functions
- True Day/Night Operation



IPSD10X

*Access All Intensifier™
Functions Over the
Internet or Network!*

*IP Server and
Intensifier™
In the Camera!*

Ideal for Mid Size Systems with Self Contained Powerful NVR Software

- Built-in web server works with Internet Explorer; no special software required for basic functionality and recording
- Linux Operating System built into camera – No virus threats
- Free DDNS Server includes storage of up to 30 alarm events
- Dual Streaming: Cameras have both MPEG-4 and JPEG CODECS which allow you to choose between streaming or high quality video
- Analog composite video output for local viewing
- Support of Dynamic and Static IP addresses
- Changeable/Selectable Ports allow one IP address to handle multiple cameras
- Premium NVR software supplied at no extra cost for accessing advanced features
- Remotely view up to 16 cameras in one window - 30 groups of cameras available for a total of 480 cameras
- Multiple levels of password protected remote access
- Includes advanced IP locator software to make system setup easy
- User adjustable settings for MPEG-4 and JPEG quality
- Built in video motion detection
- Multiple alarm handling capabilities: alarm inputs and relay outputs
- Remotely upgradeable for software and firmware functions
- Schedule recording, per camera, per day, per hour - separate schedules for regular, motion and alarm settings
- Selectable Resolutions: 704 x 480, 352 x 480, 352 x 240
- Protocols: HTTP, FTP, TCP/IP, DHCP, ARP, DNS, ICMP, DDNS
- Up to 50 simultaneous users
- Can be hung from 3/4" conduit • 5 Year warranty

Available accessories (sold separately)



WMSD10X
Wall Mount for
IPSD10X Speed Dome Camera
(Sold Separately)



CPSD10X
Corner/Pole Mount for
IPSD10X Dome Camera
(Sold Separately)

Power Over Ethernet



IPPOEH101 **IPPOECAM**

- Power any Speco Technologies IP Camera from up to 330 feet away
- Does not limit camera performance or features

IP/Network Video Server

- Allows any analog CCTV camera to function as a Speco Technologies IP Camera
- Supports 2-way audio when paired with a microphone, amplifier and speaker

Rear

IP/Network Decoder



IP / Network Camera Infrastructure

- "C" Protocol**
- View and record your cameras remotely over a network or the Internet
 - Works with all LAN, WAN and Internet configurations

Weatherproof



IPINTB1

2.8-11mm
Auto Iris Bullet Camera

IPINTB2

5-50mm
Auto Iris Bullet Camera

Weatherproof Tamperproof



IPINTD3

2.8-11mm
Auto Iris Dome Camera

IPINTD4

5-50mm
Auto Iris Dome Camera

Traditional Box



IPINTT5

Traditional Camera
Uses C/CS Lenses

IPT5

No Intensifier Feature

WDR/IP

Wide Dynamic Range



IPWDRB1

2.8-11mm
Auto Iris Bullet Camera

**Features PIXIM
wide dynamic range
technology. See pg 38**

Specifications

IP Server and Intensifier™ In the Camera! *Access All Intensifier & WDR Functions Over the Internet or Network!*

- Cameras have built-in web servers that work with Internet Explorer. No special software required for basic functionality and recording
- Models with "INT" in the part# include Intensifier™ technology
- Linux Operating System built into camera
 - No virus threats
- Dual Streaming: Cameras have both MPEG-4 and JPEG CODECS which allow you to choose between streaming or high quality video
- Free DDNS Server
- Support of Dynamic and Static IP addresses
- Changeable/Selectable Ports allow one IP address to handle multiple cameras
- Premium software supplied at no extra cost for accessing advanced features
- Remotely view up to 16 cameras in one window... from anywhere in the world!
- 580 lines of high resolution
- 12V DC operation
- Multiple levels of password protected remote access
- Includes advanced IP locator software to make system setup easy
- User adjustable settings for MPEG-4 and JPEG quality
- Built in motion detection
- Multiple Alarm handling capabilities
- RS-232 pass through for control of many popular Speed Domes
- Remotely upgradeable for software functions
- Schedule Recording, per camera, per day, per hour
- Selectable Resolutions: 704 x 480, 352 x 480, 352 x 240
- Protocols: HTTP, FTP, TCP/IP, DHCP, ARP, DNS, ICMP, DDNS
- Analog composite video output for local viewing
- Up to 50 simultaneous users
- Various filters simplify searches
- Alarm inputs - Relay outputs
- 5 Year warranty

Check out our IP Video Accessories on page 79



Focus Free Lens Intensifier™ Series Dome & Bullet Camera

NEW

Includes Paintable Chameleon Cover

Zoom & Intensifier functions can be controlled using RS485 from a DVR

HT7248FFi

Weatherproof/Tamperproof Dome camera

HTB11FFi

Weatherproof Bullet camera



**NO MORE RETURN
TRIPS TO RE-FOCUS
THE CAMERA!**

Intensifier™ Focus Free Features

Intensifier™ Series	See color in the dark without IR LEDs
Chameleon Cover	A snap on cover that converts the housing from the standard dark grey to decorator white. It can be painted to match any décor without painting the actual camera housing
580 Lines of Color Resolution	Extreme resolution for extreme detail
3.5 to 10mm Auto Iris Varifocal Lens	A wider zoom range to fit more applications
Wall & Ceiling Mount	Features an internal 3-axis mount for maximum versatility
Weatherproof / Tamperproof	Indoors or outdoors, meets all of your surveillance needs
Dual Voltage Operation	12 Volts DC or 24 Volts AC with line-lock. Voltage is auto-sensing

Specifications

Horizontal Resolution	580 TV lines
Intensifier™	Built-in (selectable from 2x to 128x)
Focus Free Lens	DC auto iris motorized zoom lens 3.5-10mm
Image Device	SONY HQ-1* with a customized DSP
Min. Object Illumination	0.002 lux (intensifier) 0.03 lux (shutter)
Effective Picture Element	410K
Speco Light Compensation (SLC/WDR)	OFF, LOW, MIDDLE, HIGH
White Balance	W-ATW / S-ATW / AWC / MANUAL
AGC	AGC-L, AGC-M, AGC-H, OFF selectable
Video S/N Ratio	Greater than 50db
Weatherproof Standard	IP66
Mechanical construction	Aluminum composite/polycarbonate - tamper resistant
Operating Environment	-20°F to 120°F
Video Signal Output	1.0V(p-p) NTSC composite, 75 ohms / BNC Connector + Video Test Connector
Power Consumption	230mA (DC) / 3.8W (AC)
Power Supply	12V DC & 24V AC (Dual Voltage)
Weight	24 ounces
Scanning System	2:1 interlaced 525 lines / 60 fields / 30 frames
Synchronization	Internal / line lock selectable through OSD
Video Noise Reduction	OFF / LOW / MIDDLE / HIGH
Motion Detection	MD1 / MD2 / OFF
On Screen Display (OSD)	Built-in
Privacy function	ON / OFF (4 Programmable Zone)
Dimensions	6.29" W x 3.89" H

See Color In The Dark
Without IR LEDs! **



* Trademark of The Sony Corporation

**Requires only 0.002 lux

Weatherproof Intensifier™ Bullet Cameras

Dark Gray housing

HTINTB8 (2.8-12mm lens)

HTINTB9 (5-50mm lens)

HTINTB10 (9-22mm lens)

White housing

HTINTB8W (2.8-12mm lens)

HTINTB9W (5-50mm lens)

HTINTB10W (9-22mm lens)

See Color In The Dark
Without IR LEDs!**



Intensifier™ Bullet Features

- Amplify existing light with no distance limitations
- No problems caused by objects that reflect or absorb IR light sources
- 580 lines of resolution
- Minimum illumination 0.002 lux (Intensifier @ 256x)
- Dual voltage 12V DC & 24V AC operation
- Full OSD operation
- External controls for zoom and focus
- SLC - Speco Light Compensation
- S/N Ratio more than 50dB (weight on)
- Weatherproof operation, IP-67
- EZ mount system simplifies installation
- 5 year warranty

Specifications

Image Pick-Up Device	1/3" Sony Super-HAD* CCD - 410K
Resolution	580 TV line
Minimum Illumination	0.002 lux - Intensifier @ 256x
S/N Ratio	More than 50dB (weight on)
White Balance	ATW/AWC/MANUAL (1800K - 10,500K)
Video Output	Composite video 1.0 Vp-p into 75 Ohm + test connection
Electronic Shutter	Auto/Manual (1/60 - 1/120,000 seconds)
OSD	Built-in - controlled by internal buttons
SLC (Speco Light Compensation)	Low, middle, High, Off, Selectable
Auto Gain	Low, middle, High, Off, Selectable
Reduce Noise	Low, middle, High, Off, Selectable
Day & Night (Color)	On / Auto Selectable
Sharpness	On / Off (Level Adjustable)
Privacy	On / Off (4 Programmable Zones)
Power Supply	24 Volts AC, 12 Volts DC - Dual Voltage
Power Consumption	210mA
Lens	DC Auto Iris Varifocal Lens (2.8-12mm, 5-50mm or 9-22mm)
Total Pixels	811(H) x 508(V)
Effective Pixels	768(H) x 494(V)
Scanning Frequency	15.734kHz(H) / 59.94Hz(V)
Scanning System	2:1 Interlace
Synchronization	Internal / Line lock in 24V AC
Operating Temperature	-14°F to 122°F - RH 95% Max.
Storage Temperature	-40°F to 140°F - RH 95% Max.
TV System	NTSC
Dimensions	3.94" W x 4.92" H x 8.19" L
Weight	3 lb.

* Trademark of The Sony Corporation

**Requires only 0.002 lux

Includes
EZ Mount
Plate



Weatherproof/Tamperproof Intensifier™ Series Dome Camera with Chameleon Cover

All menu functions controlled using an internal joystick

Includes Paintable Chameleon™ Cover

HT7246iHR 2.8-11mm Auto Iris Varifocal lens

HT7247iHR 9-22mm Auto Iris Varifocal lens

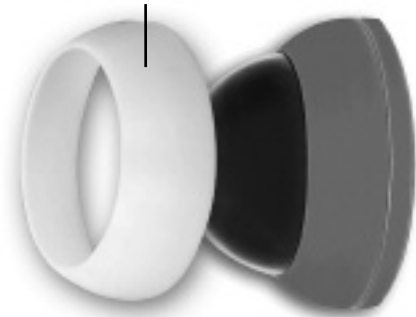
7246WMT

Wall Mount
(Sold Separately)



BCP

Corner/Pole Mount
(Sold Separately)



Intensifier™ Dome Features

Intensifier™ Series	See color in the dark without IR LEDs
Chameleon Cover	A snap on cover that converts the housing from the standard dark grey to decorator white. It can be painted to match any décor without painting the actual camera housing
580 Lines of Color Resolution	Extreme resolution for extreme detail
2.8-11mm or 9-22mm Auto Iris Varifocal Lens	A wider zoom range to fit more applications
Wall & Ceiling Mount	Features an internal 3-axis mount for maximum versatility
Weatherproof / Tamperproof	Indoors or outdoors, meets all of your surveillance needs
Dual Voltage Operation	12 Volts DC or 24 Volts AC with line-lock. Voltage is auto-sensing
Warranty	5 years

Specifications

Horizontal Resolution	580 TV lines
Intensifier™	Built-in (selectable from 2x to 256x)
Image Device	SONY HQ-1* with a customized DSP behind it
Min. Object Illumination	0.002 lux (Intensifier™) 0.03 lux (shutter)
Effective Picture Element	410K
Speco Light Compensation (SLC/WDR)	OFF, LOW, MIDDLE, HIGH
White Balance	W-ATW / S-ATW / AWC / MANUAL
Electronic Shutter	1/60-1/100,000 seconds
AGC	AGC-L, AGC-M, AGC-H, OFF selectable
Built In Lens	DC auto iris varifocal lens 2.8-11mm, 1:1.3-2.0
Video S/N Ratio	Greater than 50db
Weatherproof Standard	IP66
Mechanical construction	Aluminum composite/polycarbonate - tamper resistant
Operating Environment	-20°F to 120°F
Video Signal Output	1.0V(p-p) NTSC composite, 75 ohms / BNC Connector + Video Test Connector
Power Consumption	230mA (DC) / 3.8W (AC)
Power Supply	Requires 12V DC or 24V AC (Dual Voltage)
Scanning System	2:1 interlaced 525 lines / 60 fields / 30 frames
Synchronization	Internal / line lock selectable through OSD
Video Noise Reduction	ON / LOW / MIDDLE / HIGH
Motion Detection	MD1 / MD2 / OFF
On Screen Display (OSD)	Built-in
Privacy function	ON / OFF (4 Programmable Zone)
Weight	24 ounces
Dimensions	6.29"W x 3.89" H

**Flush Mount Kit
DFM2**



See pgs. 81 & 82 for Mounting Accessories:
Conduit Compatible Dome Extension-CVCTPEXT,

Flush Mount Kit - DFM2, Junction box Mount - CVCTPLATE - For remote control options see pg. 74



Tamper/Weatherproof Intensifier™ Dome Cameras

See Color In The Dark Without IR LEDs!**

Dark gray housing
HTINTD8 (2.8-12mm lens)
HTINTD9 (5-50mm lens)
HTINTD10 (9-22mm lens)

White housing
HTINTD8W (2.8-12mm lens)
HTINTD9W (5-50mm lens)
HTINTD10W (9-22mm lens)



Intensifier™ Dome Features

- Weatherproof operation, IP-67
- Tamper resistant
- Amplify existing light with no distance limitations
- No problems caused by objects that reflect or absorb IR light sources
- 580 lines of resolution
- Minimum illumination 0.002 lux (Intensifier™ @ 256x)
- Dual voltage
12VDC & 24VAC operation
- Full OSD operation
- External controls for zoom & focus
- SLC - Speco Light Compensation
- S/N Ratio more than 50dB (weight on)
- EZ mount system simplifies installation
- Wall or ceiling mount
- 5 year warranty

Specifications

Image Pick-Up Device	1/3" Sony Super-HAD* CCD - 410K
Resolution	580 TV lines
Minimum Illumination	.0002 lux - Intensifier™ @ 256X
S/N Ratio	More than 50dB (weight on)
White Balance	ATW/AWC/MANUAL (1800K - 10,500K)
Video Output	Composite video 1.0 Vp-p into 75 Ohm + test connection
Electronic Shutter	Auto/Manual (1/60 - 1/120,000 seconds)
OSD	Built-in - controlled by internal buttons
SLC (Speco Light Compensation)	Low, middle, High, Off, Selectable
Auto Gain	Low, middle, High, Off, Selectable
Reduce Noise	Low, middle, High, Off, Selectable
Day & Night (Color)	On / Auto Selectable
Sharpness	On / Off (Level Adjustable)
Privacy	On / Off (4 Programmable Zones)
Power Supply	24 Volts AC, 12 Volts DC - Dual Voltage
Power Consumption	210mA
Lens	DC Auto Iris Varifocal Lens (2.8-12mm, 5-50mm or 9-22mm)
Total Pixels	811(H) x 508(V)
Effective Pixels	768(H) x 494(V)
Scanning Frequency	15.734kHz(H) / 59.94Hz(V)
Scanning System	2:1 Interlace
Synchronization	Internal / Line lock in 24V AC
Operating Temperature	-14°F to 122°F - RH 95% Max.
Storage Temperature	-40°F to 140°F - RH 95% Max.
TV System	NTSC
Dimensions	5.5" W x 4.4" H x 5.5" D
Weight	3 lbs.

*Trademark of The Sony Corporation

**Requires only 0.002 lux



Indoor Intensifier Wall & Ceiling Mount Dome Cameras

CVC6246iHR Black housing
CVC6246iHRW White housing

Intensifier™ Series Features

- 580 Lines of Color Resolution Extreme resolution for extreme detail
- 2.8 to 11mm Auto Iris Varifocal Lens A wider zoom range to fit more applications
- Wall & Ceiling Mount



Traditional Box



shown with
optional lens

HTINTT5

accepts C & CS type lenses

VLINTT5

12 Volt operation only



Weatherproof



HTINTB1

3-9mm auto iris lens

HTINTB2

5-50mm auto iris lens

Tamperproof



HTINTD3

3-9mm auto iris lens

HTINTD4

5-50mm auto iris lens

Intensifier™ Series Specifications

Resolution	580 TV lines
Intensifier™	Built-in (selectable from 2x - 256x)
Image Sensor	1/3" Sony HQ1* with customized DSP CCD (410K pixels)
Minimum Illumination	.002 lux (Intensifier mode) .03 lux (shutter)
Total Pixels	811 (H) x 508 (V), 1/3" CCD
Effective Pixels	768 (H) x 494 (V), 1/3" CCD
Maximum Aperture Ratio	1:1.3 - 2.0
Lens Type	HTINTB1 & HTINTD3: DC varifocal auto iris 2.8mm-11mm HTINTB2 & HTINTD4: DC varifocal auto iris 5mm-50mm VLINTT5 & HTINTT5 accepts "CS" type lenses
Scanning System	2:1 Interlace 525 lines / 60 Fields / 30 Frames
Synchronization	Internal / line lock selectable
Video Output	1.0 V(p-p) NTSC composite, 75Ω / BNC connector + video test port
Speco Light Compensation (SLC/WDR)	OFF / LOW / MIDDLE / HIGH
Gain Control	AGC-L, AGC-H, AGC-M OFF, selectable,
Electronic Shutter Speed	1/60 - 1/200,000 sec.
White Balance	ATW / AWC / MANUAL
S/N	50 dB (weight on)
Digital Noise Reduction	ON / LOW / MIDDLE / HIGH
Power Source	12 Volts DC and 24 Volts AC, internal isolation (Dual Voltage), except VL-INTT5
Motion Detection	4 adjustable zones
On-Screen Display (O.S.D.)	Built-in
Privacy Function	ON / OFF (4 programmable zones)
Operating Temperature	-20°F to +120°F
Operational Humidity	30% - 95% RH

* Trademark of The Sony Corporation

**Requires only 0.002 lux



See Color In The Dark Without IR LEDs!***

Compatible with model BCP CORNER/POLE MOUNT ADAPTOR for bullet cameras. See pg 81 for details.



See Color In The Dark Without IR LEDs!**

Can withstand hits from a 10lb. sledgehammer!

- 580 lines high resolution
- 1/3" Sony HQ-1* (HT647H RTP)
- .002 lux
- 3.6mm wide angle lens coverage
- optional lenses available
- 1/60 to 1/100,000 sec.
- 1 Vp-p/75 ohms (BNC connector)
- 0.45 Gamma correction
- 120mA current consumption
- Video S/N ratio more than 50dB
- 12 Volts DC power supply included (UL/CSA listed)
- Operating temperature -14°F to 122°F
- Dimensions 4" Dial. x 2.5" H
- Weight 10.5 oz.

Paintable Chameleon™ Cover



See pg. 82 for Mounting Accessory: Flush Mount Kit - DFM2

Can withstand hits from a 10lb. sledgehammer!

B/W Version 420 line resolution • 0.02 lux • 1/3" CCD format • 3.6mm lens

Color Version 420 line resolution • .92 lux • 1/4" CCD format • 3.6mm lens



* Sony HAD & HQ-1 are trademarks of the Sony Corporation

**Requires only 0.002 lux



HTB10X



HT7816DNP



HTINTB4



10X Optical Motorized Zoom!

- 580 lines resolution (IR on)
- 560 lines resolution (IR off)
- 3.8-38mm auto iris motorized zoom lens
- 1/4" Sony Super-HAD* CCD
- **Minimum illumination:**
30 IR LEDs
0.1 Lux LED OFF
0 Lux (up to 130' range) LED ON
- **Electronic Shutter:**
Auto: 1/60~1/100,000 sec.
Manual : 1/60, FLK(1/120), 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000
- **On Screen Display**
- Optical Zoom 10X,
- Digital Zoom 10X
- Dual voltage 12VDC & 24VAC operation
- S/N Ratio more than 46dB (weight on)
- **Weatherproof operation**
- Operating Temperature: -20°F to 140°F
- **Dimensions:** 3.1" W x 3" H x 6.8" L
- **Weight:** 3.3 lbs.
- **Warranty:** 5 years

True Day/Night

- 600 lines resolution (IR on)
- 550 lines resolution (IR off)
- 3.8-9.5mm auto iris varifocal lens
- 1/3" Sony Super-HAD* CCD
- **Minimum illumination:**
30 IR LEDs
0.5 Lux LED OFF
0 Lux (up to 130' range) LED ON
- **Electronic Shutter:**
1/60~1/100,000 sec. (NTSC) [at ELC Mode]
- Dual voltage 12VDC & 24VAC operation
- S/N Ratio more than 50dB
- Weatherproof operation
- Operating Temperature: -20°F to 122°F
- **Dimensions:** 3.1" W x 3" H x 6.8" L
- **Weight:** 3.3 lbs.
- **Warranty:** 5 years

Intensifier™!

- 580 lines resolution (IR on)
- 520 lines resolution (IR off)
- 3.8-9.5mm auto iris varifocal lens
- 1/3" Sony Super-HAD* CCD
- **Minimum illumination:**
0.02 Lux / F1.2 with IR OFF (40IRE, AGC Middle, DNR Low),
0 Lux / F1.2 with IR ON (40IRE, AGC Middle, DNR Low)
.002 in Intensifier mode
- **Electronic Shutter:**
1/60~1/100,000 sec. (NTSC) [at ELC Mode]
- **On Screen Display**
- SLC (Speco light compensation) low, middle, high, off selectable
- Dual voltage 12VDC & 24VAC operation
- S/N Ratio more than 50dB (weight on)
- **Weatherproof operation**
- Operating Temperature: -20°F to 122°F
- **Dimensions:** 3.1" W x 3" H x 6.8" L
- **Weight:** 3.3 lbs.
- **Warranty:** 5 years

Indoor/Outdoor High Performance PTZ Dome Camera

The CVC927PTZ dome camera and accessories make up the building blocks of your most sophisticated surveillance/security systems. Using multiple keyboard controllers and speed dome cameras, no place is too large for monitoring. Extendable and flexible architecture facilitates remote control functions for a variety of configurations.



Features:

- 18x times optical power zoom camera with True Night Shot function
- 4.8" dome • 240 preset positions
- Image masking & blocking
- Day/night operation
- Wide dynamic range operation
- 8 tours consist of preset, pattern, auto-scan. Other tours can be programmed with 240 functions and preset location. While moving, each preset scan can be watched in smooth vector scan mode
- 8 Auto scans including vector scan
- Auto flip rotates 180° at bottom of tilt
- 0° to 90° tilt angle (user selectable to prevent obstruction of the horizontal view)
- 4 patterns (240 second) • 8 Privacy zones
- 8 Alarm inputs/4 Aux outs (NC & NO)
- Variable speed from 0.1°/sec to 90°/sec. Turbo speed is Max 360°/sec. Pan/tilt speed is inversely proportional to the zoom ratio. Maximum speed is 380°/sec • Programmable user preferences (alarm, preset, title, etc.)
- Up to 999 selectable camera addresses
- Built-in RS-485/422 receiver driver
- Built-in power-line surge protection and lightning protection
- Clear bubble with black liner (shelter) for concealing the camera
- Optional, indoor & outdoor pendant housing with heater & blower, indoor flush mount, parapet mount & roof top mount
- 8 Alarm inputs - 4 alarm outputs- multiple protocols - operates from many controllers & DVRs

Data Bank - Allows for dome settings to be saved temporarily in the keyboard for uploading to a replacement dome

Night Mode - Switches to B/W at .2 lux

Slow Shutter - Automatically slows the shutter

speed to capture more existing light when required

2 Levels of Password Protection

- Increased level of security

Specifications

Horizontal Resolution	480 Lines
Image Sensor	1/4" ExView* color CCD
Picture Elements	NTSC: 768 x 494 Approx.
Lens	18x Optical zoom, 4.1mm to 73.8mm with auto focus, 12x digital zoom, F1.4 to F3.0
View Angle	Approx. 48° (WIDE) to 2.7° (TELE)
Minimum Illumination	0.7 Lux, 0.15 lux (1/4s) in night mode 0.01 lux (1/4s with IR cut filter removed)
S/N Ratio	More than 60dB
Input Voltage	18 to 30 VAC; 24 VAC nominal, built-in power-line surge
Power Requirement	24 VAC 850mA - use model PSW-6 or Equal
Power Consumption	Maximum 20W
Alarm Output	4 Normal relays 24 VDC/ 1A max (selectable NC/NO)
Alarm Input	8 Normal dry contact (selectable NC/NO)
Control	RS-485/422 baud rate: 2400 - 230k bps (default: 9600bps)
Access Time	0.75 Second maximum preset recall time
ID (Camera Address)	999 (Factory mode selectable over 999 camera)
Pan Angle	360° continuous rotation
Speed	0.5° to 90°/sec. (proportional to zoom) 360°/sec. maximum (with CTRL/PGM key pressed) Preset speed: 380/sec.
Auto Flip	Rotate 180° at bottom of tilt
Auto Scan	8 Auto scan include vector scan
Preset Position	240 positions with camera status (16-character title)
Tour	8 Tours
Pattern	4 patterns, 240 seconds
On-Screen Display	Displays camera ID and area name on screen
Operating Temperature	32° F to 122° F, extendable with WH-927
Operating Humidity	0 to 90% RH (non-condensing)
Storage Temperature	-4° F to 140° F
Dimensions	.8" H x 5" Dial.
Weight	2.5 lbs.
Warranty	5 years

PSW6 - 24 Volt AC power supply for camera and weatherproof housing
Call for details concerning remote controls and mounting options.

*ExView is a trademark of the Sony corporation





Keyboard Controller

KBDPTZ1

This Speco Technologies keyboard controller is capable of controlling up to 32 speed domes.

The keyboard controller features:

Capability to control a camera's panning and tilting movement with variable speed from 0.5°/sec to 90°/sec as well as its zoom, focus and iris command. Normal speed is inversely proportional to the current zoom ratio. Turbo speed is Max 380°/sec when **Ctrl** key is pressed.

The ability to define and recall up to 240 presets, which are immediate camera call-ups of preset position view with automatic zoom and focus.

The ability to define and run up to 8 patterns which comprise a sequential series of pan, tilt, zoom and focus movements from a single camera.

The ability to define and run up to 8 scans which scan between two limits.

The ability to incorporate up to 300 of the presets, patterns, scan and tour itself in up to 8 tours where the presets, patterns and scan are automatically displayed one after the other on the Main monitor.

Programmable user preferences (alarm, preset, title, etc.).

Administrator and user - two levels of passwords are supported for higher security.

One master and slave keyboard are supported to control in a remote location.

Programmed data from up to two domes can be downloaded to non-volatile memory space in KBD, and uploaded to a new dome.

Specifications:

Power Consumption	12VDC, 0.5W
Control Method	RS-485, RS-232C
Baud Rates	2400 - 230K bps
Dimensions	15" x 6.5" x 2.75"
Weight	2.5 lbs.
Power Supply	Included

Weatherproof and Indoor Housings

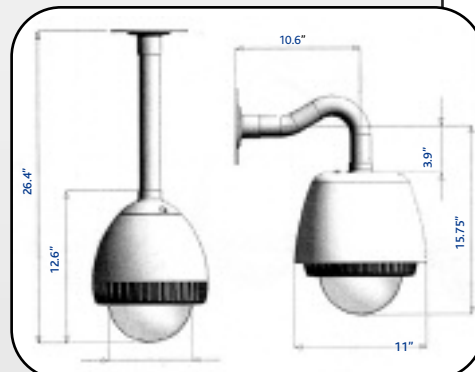
The Speco Dome camera housings are constructed of aluminum steel and plastic. The sleek design is made to be mounted on both wall and ceiling. The housing meets international IP65 standard for dust and moisture.



WH927 & IH927

Specifications:

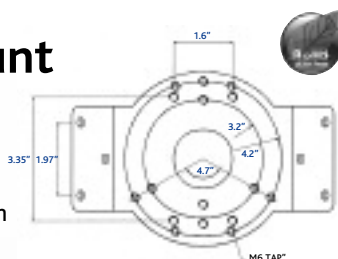
Power Source	24VAC, 50/60Hz
Power Consumption	Heater 50 watts, Blower 6 watts Dome Camera 20 watts
Construction	Aluminum, steel and plastic (ABS)
Finish	Polyester powder coat
Dome Bubble	Plastic (Acrylic)
Ambient Environment Temperature	-45°C to 50°C
Ratings	IP 65
Dimensions	See diagrams
Weight	9.5 lbs.(sunshield included)
Power Requirement	24 VAC 850mA - use model PSW-6 or Equal



Corner Mount CM927

Features:

- Low cost
- Die cast and aluminum
- Easy to install



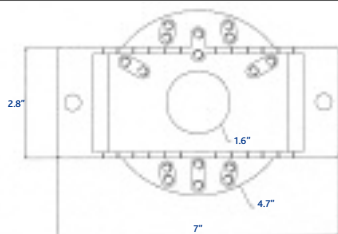
Specifications:

Enclosure mountingTen (10) M6 x 15mm hex head Machine screw (supplied)
Construction FinishDie cast and aluminum
FinishLight-gray polyester powder coat
Maximum load63.5 lbs.
DimensionSee diagram above
Weight1.31 lbs.

Pole Mount PM927

Features:

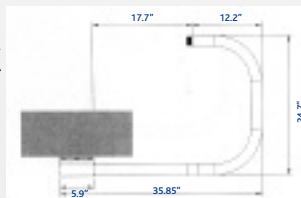
- Low cost
- Die cast and aluminum
- Easy to install



Specifications:

Enclosure mountingTen (10) M6 x 15mm hex head Machine screws (supplied)
 Two (2) M10 x 90mm hex head Machine screws (supplied)
 Two (2) M10 hex nuts (supplied)
Construction FinishDie cast and aluminum
FinishLight-gray polyester powder coat
Maximum load63.5 lbs.
DimensionSee diagram above
Weight2.12 lbs.

Parapet Mount PMT927



Specifications:

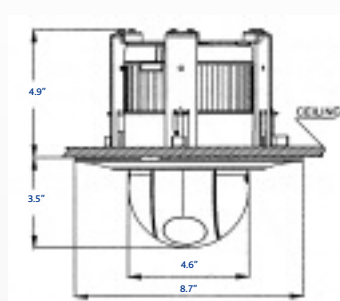
Construction FinishAluminum, steel & stainless hardware
FinishLight-gray polyester powder coat
Maximum load20 lbs.
DimensionSee diagram above
Weight23 lbs.

Flush Mount Hardware FLM927

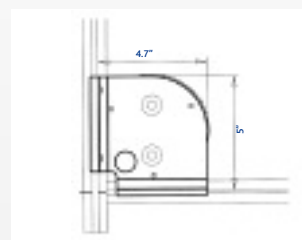
This mounting device enables the dome camera to be mounted to the suspended ceiling. The mounting clamps which are affixed to the ceiling tile, attach directly to the dome's mounting base for a quick and easy installation.

Specifications:

ConstructionSteel and injection molded plastic
Maximum LoadApprox. 4.4 lbs.
DimensionsSee diagram below



T-Bar Mounting Adapter TBM927



The mount enables the dome to be mounted to the T-bar of a suspended ceiling. The mounting clamps, which are affixed to the T-bar, attach directly to the dome's mounting base for a quick and easy installation.

Features:

- Easy to install
- Indoor applications
- Steel construction
- Cable feed through hole conceals wiring
- Light duty ceiling mount

Specifications:

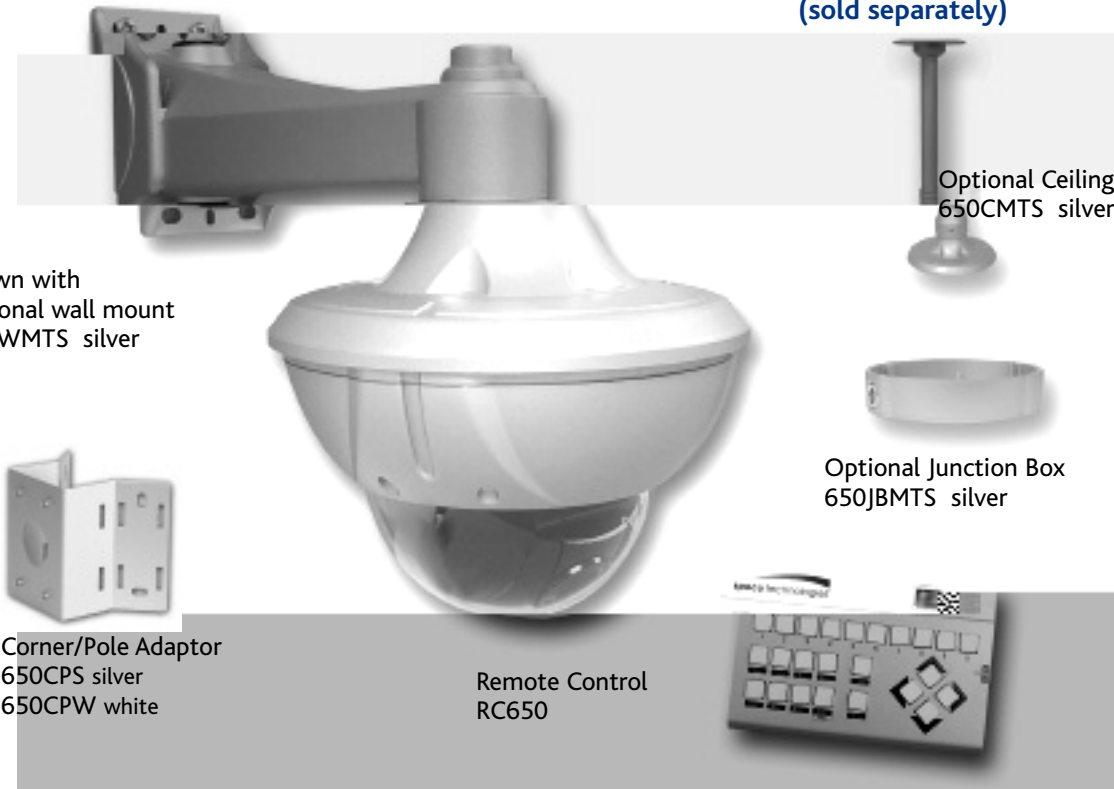
ConstructionSteel 1.6t
Maximum LoadApprox. 4.4 lbs.
FinishLight-gray polyester powder coat

Specifications subject to change

High Resolution Motorized Color Dome Cameras with Varifocal Lens & Motorized Zoom Lens Options

650 Series Optional Accessories (sold separately)

shown with
optional wall mount
650WMTS silver



Optional Ceiling Mount
650CMTS silver

Optional Junction Box
650JBMTS silver

Corner/Pole Adaptor
650CPS silver
650CPW white

Remote Control
RC650

Features

HT650PT10X

(3.8-38mm 10X Motorized Optical Zoom with 10X Digital Zoom)

- 560 lines color resolution
- 580 lines B/W resolution
- Motorized Pan & Tilt, Remote Controlled
- 10X Optical Zoom
- 3.8-38mm motorized zoom lens
- RS485 communication
- 64 pre-set positions
- Pans up to 93 degrees per second
- Adjustable speeds
- Sequential, Auto & Random pan modes
- Vandalproof, weatherproof
- Ready for ceiling mounting
- Compatible with 650WMT and 650CMT optional mounting brackets & 650JBMT junction box
- Control from our RC650 remote control or many popular DVRs• Includes 12 Volt DC power supply

HT650PTDZ

(4-9mm varifocal lens with 3X Digital Zoom)

- 560 lines color resolution
- 580 lines B/W resolution
- Motorized Pan & Tilt, Remote Controlled
- 3X Digital Zoom
- 4-9mm auto iris varifocal lens
- RS-485 communication
- 64 pre-set positions
- Pans up to 93 degrees per second
- Adjustable speeds
- Sequential, Auto & Random pan modes
- Vandalproof, weatherproof
- Ready for ceiling mounting
- Compatible with 650WMT and 650CMT optional mounting brackets & 650JBMT junction box
- Control from our RC-650 remote control or many popular DVRs
- Includes 12 Volt DC power supply



For Your Toughest Lighting Situations!

Pixim's patented Digital Pixel System (DPS) technology marks a fundamental breakthrough in imaging technology. Pixim has created an image capture and processing system that provides high-quality pictures with enhanced dynamic range that significantly improves image quality in scenes consisting of both bright and dark areas.

The core invention in DPS is the inclusion of an analog to digital converter (ADC) within each pixel of the image sensor. The ADC translates the light signal into a digital value at the immediate point of capture, thus minimizing signal degradation and cross-talk in the array and allowing for greater noise reduction methods.

Get up to 10x more recorded information onto your HDD.



Lens not
included



WDR Specifications

Weatherproof, Day/Night High Resolution Color Bullet Camera

HT7715DNV Grey Housing

HT7715DNVW White Housing



All H.E.A.T.™ - High End Advanced Technology cameras offer excellent color performance, ultra high resolution, light capability of 0.03 lux or lower, low smear level (prevents glare), pre-set auto exposure, and Turbo AGC (Automatic Gain Control). All H.E.A.T. bullet cameras are weatherproof. Cabling runs through the mount on selected models for added security.



Features

- 1/3" SONY Super-Had HQ-1 DSP CCD sensor - 560 TV lines of resolution
- Split Glass Technology- avoids IR reflections
- Auto iris DC Varifocal Lens (4mm-9mm)
- LUX level dip switch adjusts day/night settings to your requirements
- Dual voltage operation
- Built-in 18 IR LEDs (80' Range**) & CDS sensor for day/night performance
- Controls for BLC, ELC, F/L and L/L
- Video Test Connector for easy install
- Built-in heater extends operating range and avoids condensation
- Weatherproof operation
- Excellent low light level performance - 0.03 Lux in existing light, 0.0 Lux with IR LEDs
- Insulated mount reduces ground loops
- Cable runs through mount for protection

Specifications

Image Sensor	1/3" Sony Super-Had HQ-1* DSP CCD
Resolution	560 lines
Minimum Illumination	0.03 lux (IR off) 0.00 lux (IR on)
Lens	DC Auto iris, 4mm-9mm (Varifocal)
CDS Sensor	Photoconductive Cells - Adjustable
Electronic Shutter	1/60 - 1/100,000 seconds
Video Output	1.0 Vp-p into 75 ohms composite
TV System	NTSC
Scanning System	2:1 Interlace
Sync System	Line Locked/ Adjustable V-Phase Line Lock/Internal On-Off
S/N Ratio	More than 60dB
Gamma Characteristic	0.45
Power Supply	24 Volts AC, 12 Volts DC - Dual Voltage
Power Consumption	600mA
Operating Temperature	-20°F to 122°F - RH 95%
Dimensions	2.4"W x 2.25"H x 7"L
Weight	1 lb.
Warranty	5 Years

**NOW WITH
MORE
POWERFUL
LEDs &
Higher
Resolution
Lens!**

Compatible with model BCP CORNER/POLE MOUNT ADAPTOR for bullet cameras. See pg 81 for details.

* Trademark of Sony Corporation

**Depending on scene reflection

Weatherproof, Day/Night High Resolution Color Bullet Camera

HT7815DNV

HT7815DNVW White Housing

3-9mm VF lens

48 Mini IR LEDS (150' Range)

HT7915DNV

HT7915DNVW White Housing

5-50mm VF lens

24 IR LEDS + 6 Super IR LEDS (330' Range)

**All Controls
Accessible on
Bottom of
Camera**



Features

- External lens control of zoom and focus
- Split Glass Technology eliminates IR reflections
- Mechanical day/night IR cut filter
- Lux level dip switch controls when the camera switches into B/W mode
- CDS sensor
- UTP function built-in for use with twisted pair wiring in addition to standard coax
- 1/3" SONY Super-Had HQ-1* CCD
- Day/night DC varifocal auto iris lens (3mm-9mm)
- Video test connector for easy installation
- Dual voltage operation
- Built-in heater extends operating range and eliminates condensation
- Weatherproof sunshield
- Rear panel controls (BLC, ELC, F/L, L/L)
- Turbo AGC • Heat sink body
- Insulated mount reduces ground loops
- Cable runs through mount for protection

Specifications

Image Sensor	1/3" Sony Super-Had HQ-1* DSP CCD
Resolution	560 lines
Minimum Illumination	.003 lux (IR off) 0.00 lux (IR on)
Lens	Day/Night DC Auto Iris Varifocal Lens (3mm-9mm) or (5mm-50mm)
CDS Sensor	Photoconductive Cells, Adjustable
Electronic Shutter	1/60 - 1/100,000 seconds
Video Output	1.0 Vp-p into 75 ohms composite
TV System	NTSC
Scanning System	2:1 Interlace
Sync System	Line Locked/ Adjustable V-Phase Line Lock/Internal On-Off
S/N Ratio	More than 60dB
IR/Cut Filter	Mechanical - Auto Adjusts when required
Power Supply	24 Volts AC, 12 Volts DC- Dual Voltage
Power Consumption	700mA
Operating Temperature	-20°F to 122°F - RH 95%
Dimensions	3.125"W x 3.5"H x 12"L
Weight	3 lbs.
Warranty	5 Years

**NOW WITH
MORE
POWERFUL
LEDs &
High**

Compatible with model BCP CORNER/POLE MOUNT ADAPTOR for bullet cameras. See pg 81 for details.

* Trademark of Sony Corporation
** Depending on scene reflection



Color Day/Night Weatherproof Camera with SuperHad* Technology and Built-In IR Illuminators

CVC7706DNV

- Mechanical IR filter gives best color by day & IR sensitivity at night
- Split Glass Technology to avoid IR reflections
- Built-in heaters
- 48 Built-in IR LEDs
- Coated front glass to eliminate IR glare & resist moisture build-up
- Insulated mount reduces ground loops



Cable routed through mount for extra security

Features

An ideal 24-hour operational camera offering color images by day, and automatically switching to B/W at night. IR range up to 130 ft.** controlled by a CDS sensor. Mounting bracket protects the cable.

Specifications

IR Cut Filter	Automatically repositioned as required
Resolution	560 lines
Minimum Illumination	0.03 lux (IR off), 0 lux (IR on)
Image Device	1/3" SuperHad HQ-1* DSP CCD
Lens	DC Auto iris, 2.8-11mm (Varifocal)
Electronic Shutter	1/60 - 1/100,000 seconds
Video Output	1.0 Vp-p 75 Ohm composite
Power Supply	Dual voltage 24V AC/12V DC
Power Consumption	24 Volts AC @ 40VA, 12 volts DC @ 1 amp
Operating Temperature	-20°F to 122°F - RH 95%
Dimensions	2.9"W x 2.7"H x 10"L
Weight	2.3 lbs.
IR Range	130'**
Heaters	Built in to extend operating range and eliminate condensation
Warranty	5 Years

**NOW WITH
MORE
POWERFUL
LEDs &
Higher
Resolution
Lens!**

Compatible with model BCP CORNER/POLE MOUNT ADAPTOR for bullet cameras. See pg 81 for details.

* Trademark of Sony Corporation
** Depending on scene reflection

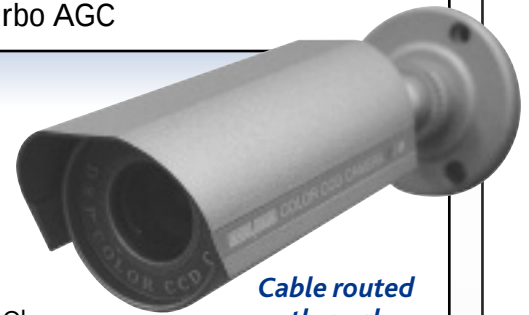


H.E.AT. Color Weatherproof Day/Night Dual Voltage Camera with ExView* Technology, 5-50mm DC Auto Iris Lens and Turbo AGC

CVC550EX

Varifocal 5-50mm auto iris

Resolution Ultra high 480 line
 Minimum Illumination 0.03 lux
 Image Device 1/3" color ExView* image sensor
 Lens DC Auto iris 5mm- 50mm lens
 CDS Sensor Photoconductive cells, 10 lux resistance 5-10k Ohm
 Electronic Shutter Auto 1/60 - 1/100,000 second
 Dual Voltage 24 V AC @ 40VA or 12V DC @ 1amp
 Synchronization Line lock and adjustable V-phase in 24 Volt AC mode
 Video S/N Ratio Greater than 50 dB
 Gamma Characteristics 0.45
 Video Output 1.0 Vp-p into 75 Ohm composite
 Operating Temperature -20°F to 122°F
 Humidity Within 95%RH
 Weight 41.3 oz.
 Dimensions 2.9"W x 2.7"H x 11"D



Cable routed through mount for extra security

Built-in heaters, day/night operation controlled by CDS sensor

* Trademark of Sony Corporation



Compatible with model BCP CORNER/POLE MOUNT ADAPTOR for bullet cameras. See pg 81 for details.

H.E.AT. Color Weatherproof Day/Night Dual Voltage Camera with Super-Had* Technology, Built-In Infrared LEDs Up To 60ft. Range



Cable routed through mount for extra security

Built-in heaters, non condensing glass, special IR coating enhances IR operation

CVC7700DN

Resolution Ultra high 470 line
 Minimum Illumination .. 0 lux with operating LEDs, 0.03 with existing light
 Image Device 1/3" color Super-HAD* image sensor
 Lens 4mm lens
 Electronic Shutter Auto 1/60 - 1/100,000 seconds
 Synchronization Line lock and adjustable V-phase in 24 Volt AC mode
 Video S/N Ratio Greater than 50 dB
 Video Output 1.0 Vp-p 75 Ohm
 Power Requirements 24V AC @ 40VA or 12 volts DC @ 1 amp.
 Power supply not included
 Operating Temperature .. -20°F to 122°F
 Humidity Within 95%RH
 Weight 12 oz.
 Dimensions 2.7"W x 2.7"H x 7.2"D

* Trademark of Sony Corporation



Compatible with model BCP CORNER/POLE MOUNT ADAPTOR for bullet cameras. See pg 81 for details.

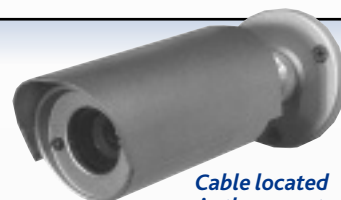
All H.E.A.T.™ - High End Advanced Technology cameras offer excellent color performance, ultra high resolution, light capability of 0.03 lux or lower, low smear level (prevents glare), pre-set auto exposure, and Turbo AGC (Automatic Gain Control). All H.E.A.T. bullet cameras are weatherproof. Cabling runs through the mount on select models for added security.



Color Bullet Camera with 4-9mm Varifocal Auto Iris Lens

CVC870EX

- 470 lines of resolution • 0.03 lux
- 4-9mm auto-iris varifocal lens
- Adjustable lens for fine tuning of camera coverage
- 1/3" Super-HAD* image sensor
- Includes regulated 12V DC power supply (UL listed)
- 2.7"W x 2.7"H x 6.7"D
- 7.5 oz.
- 5 Year warranty



Cable located in the mount for extra security

Color Bullet Camera with Built-In 3.6mm Lens

CVC6800EX

- 470 lines of resolution
- 0.03 lux • 3.6mm fixed lens
- Built-in electronic shutter
- 1/3" Super-HAD* image sensor
- Includes regulated 12V DC power supply (UL listed)
- 1.3"W x 2.5"H x 5.3"D • 6.1 oz.
- 5 Year warranty



Cable located in the mount for extra security

Color Bullet Camera with Built-In 4-9mm Varifocal Lens

White housing CVC6805EXW

- 470 lines of resolution • 0.03 lux
- 4-9mm varifocal lens
- Built-in electronic shutter
- 1/3" Super-HAD* image sensor

Gray housing CVC6805EX

- Includes regulated 12V DC power supply (UL listed)
- 2.5"W x 2.1"H x 5.8"D • 11.2 oz.
- 5 Year warranty



Cable located in the mount for extra security

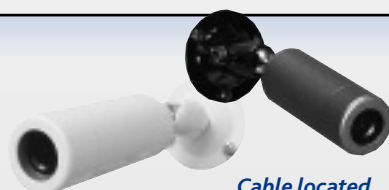
Miniature Color Bullet Camera with Built-In 3.6mm Lens

White Housing CVC637EXW

- 470 lines of resolution
- 0.03 lux • 3.6mm fixed lens
- Built-in electronic shutter
- 1/3" Super-HAD* image sensor

Gray housing CVC637EX

- Includes regulated 12V DC power supply (UL listed)
- 1"W x 1"H x 2.6"D • 2.0 oz.
- 5 Year warranty



Cable located in the mount for extra security

Compatible with model BCP CORNER/POLE MOUNT ADAPTOR for bullet cameras. See pg 81 for details.

High Resolution Color Dome Camera with 2.8-11mm Auto Iris Lens

Resolution	550 lines
Image Device	1/3" Sony Super-HAD* CCD
Min. Object Illumination	0.3 lux sensitivity
Electronic Shutter	1/60-1/100,000 seconds
DIP Switches	BLC, FLK, AGC AND AES/AI
Built In Lens	2.8-11mm F1.4 auto iris lens
Video S/N Ratio	Greater than 48dB
Gamma	0.45
Mechanical Construction	Polycarbonate housing with lined dome cover
Video Signal Output	Composite Video, 1 Vp-p into 75 ohms, test connection
Power Consumption	300mA (DC) / 4W (AC)
Power Supply	Dual voltage operation: 12V DC & 24V AC
Scanning System	525 lines interlaced
Synchronization	Internal / line locked in 24V AC mode
Operating Environment	14°F to 122°F
Dimensions	5.5" Dia. x 3.5" H
Weight	12 oz.
Accessories	Wall/ceiling mountable with 3-axis mount & template included



NEW

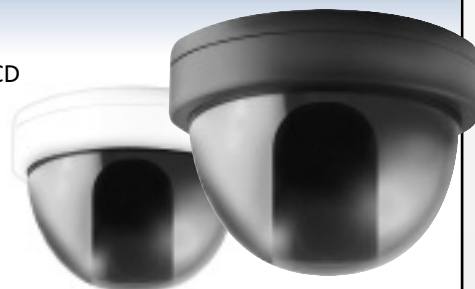
**550 Lines Resolution
Wall or Ceiling Mount
Dual Voltage Operation**

CVC6146HR

High Resolution Color Dome Camera, 2.8-11mm Auto Iris Lens with Full OSD and 12VDC / 24VAC Dual Voltage Operation

Image Pick-Up Device	1/3" Sony Super-HAD* CCD
Effective Pixels	768(H) x 494(V)
Resolution	550 TV line
Minimum Illumination	0.5 lux
Scanning System	2:1 Interlace
Synchronization	Internal
S/N Ratio	More than 50dB
Power Supply	12 Volts DC Required - like Speco PSW5

*Super-HAD is a trademark of The Sony Corporation



**CVC6146SCS
CVC6146SCSW**

Also see pg. 45 for our

Indoor Dome with 2.8-11mm lens



CVC6705SCS
Weatherproof bullet with
4-9mm varifocal lens



CVC627SCS
Weatherproof bullet with
IR LEDs & 6mm lens



CVC6700SCS
Weatherproof bullet
with 6mm lens

See pg. 82 for Mounting
Accessory: Flush
Mount Kit - DFM2



CVC6146SCS
CVC6146SCSW
Indoor Dome with 2.8-11mm lens
12VDC / 24VAC Dual Voltage Operation

**All cameras include
mounting brackets**



**Weatherproof OSD Camera
with IR LEDs & Varifocal Lens**

- 540 TV Lines
- Third Generation DSP Chip
- 1/3" Sony Super HAD CCD
- True Day/Night
(ICR-IR Cut Filter Removable)
- 2.8-12mm Auto Iris Varifocal Lens
- External Control Rings for
EZ Focus and Distance Adjustment
- Dual Voltage operation
12V DC/24V AC
- EZ Mount Bracket

CVC627VFSCS
Weatherproof Bullet with 2.8-11mm lens

CVC700HRSCS
Miniature with
4mm board lens



CVC770PHSCS
Miniature with 3.7mm
conical pinhole lens

Full OSD control of all major camera functions:

- **Lens type*** – DC auto iris or manual:
Controls brightness of DC auto iris lenses
- **Shutter type*** – Manual, fixed,
flickerless or auto
- **BLC** – Adjustable sensing area of 100 pts.
on the screen: Adjustment of BLC ratio
- **AGC** – On/Off: Adjustability of AGC
amount from 0 to 255
- **White Balance** – ATW, AWB, Fixed
(pre-sets) or complete manual control
of reds & blues
- **Camera Titles** – On/Off: Easy user set-up
- **Day/Night** – Auto / Color / B&W
- **Privacy Screens** – Easy user set-up and
dynamic control for exact settings
- Adjustability of several other camera
functions including Contrast, Sharpness,
CB-gain, CR-gain, etc
- **Mirror image** - to reverse field of view

*Not needed on certain models

Specifications

Resolution	540 TV line
Image Pick-Up Device	1/3" Sony Super-HAD* CCD
Effective Pixels	768(H) x 494(V)
Minimum Illumination	0.5 lux
Scanning System	2:1 Interlace
Synchronization	Internal
S/N Ratio	More than 50dB
Power Supply	12 Volts DC Required - like Speco PSW5



*Super-HAD is a trademark of The Sony Corporation

Color Day/Night Waterproof Camera with Built-In IR LEDs and Split Glass Technology

CVC627 silver case
12V DC Regulated power supply included (UL/CSA Approved)



CVC627W
white case
5' cable



CVC627B
white case
5' cable



Features

Day/Night Operation. 20 built-in LEDs controlled by a CDS sensor allow this color camera to see a perfect b/w picture in the dark at distances up to 45'*

Weatherproof/Waterproof Can withstand full immersion in water and stand up to any type of weather

Attractive Housing Available in white, black and silver to match any decor

Specifications

Horizontal Resolution	.420 Lines
Min Illumination	.0.1 lux (LED off), 0 lux (LED on)
Camera Type	Waterproof color day/night
Image Sensor	1/4" Super-HAD* image sensor
Lens	.3.6mm
Iris	Electronic shutter
Electronic Shutter Speed	.1/60 to 1/100,000 second
Effective Pixels	.510 (H) x 492 (V) Pixels
TV Standard	.NTSC
Sync Type	.Internal
Scanning System	.2:1 Interlace
Video Output	.1 volt p-p into 75 ohms
Gamma Characteristics	.0.45 type.
S/N Ratio	.48 dB
Gain Control/Back Lighting	.Automatic
Operating Temperature	.-14°F to 120°F
LED	.20 LEDs controlled by CDS sensor, 45' range*
Construction	.Waterproof, aluminum, removable/adjustable sunshield, reflective IR booster
Current Consumption	.150 mA (LED off), 330 mA (LED on)
Power Supply	.12V DC regulated power supply included (UL/CSA approved) (500MA)
Mount	.Stainless steel universal wall/ceiling mount included
Dimensions	.2.75" Dial. x 3.65" (L)
Weight	.12.5 oz.
Cable	.60' of power/video cable (on CVC627) 5' of power/video cable (CVC627W and CVC627B)

**NOW WITH
MORE
POWERFUL
LEDs**

*Depending on scene reflection

Weatherproof bullet with IR LEDs, 6mm Lens & Full OSD

Resolution	.540 TV line
Image Pick-Up Device	.1/3" Sony Super-HAD* CCD
Effective Pixels	.768(H) x 494(V)
Minimum Illumination	.0.5 lux
Scanning System	.2:1 Interlace
Synchronization	.Internal
S/N Ratio	.More than 50dB
Power Supply	.12 Volts DC Required - like Speco PSW5



CVC627SCS

Also see pg. 45 for our full line of On Screen Display Models



Color Waterproof Day/Night Camera For Marine Use

- 420 line resolution
- 0.1 lux (LED off)
0 lux (LED on)
- 12 LEDs controlled by CDS sensor, up to 45' range
- 1/4" Color CCD
- 2.9mm lens for wide-angle coverage
- Built-in electronic iris
- Max. operating depth: 90 ft.
- Brass housing construction
- Can withstand full immersion in water and stand up to any type of weather
- 10' of power/video cable
- CVC672MR-Reverse view for use on the back of a boat
- White Housing
- Warranty 5 years



DAY/NIGHT



CVC627M
Reverse Image CVC627MR

Color Day/Night Waterproof Camera For Marine Use

- 420 line resolution
- 0.1 lux (LED off), 0 lux (LED on)
- 12 LEDs controlled by CDS sensor, up to 45' range • 1/3" Color CCD
- 3.6mm lens for wide angle coverage
- Built-in electronic iris
- Max. operating depth: 90 ft.
- Brass housing construction
- Can withstand full immersion in water and stand up to any type of weather
- 10' of power/video cable
- CVC678MR-Reverse view for use on the back of a boat



DAY/NIGHT



Cable Through Mount CVC628M
Reverse Image CVC628MR

Weatherproof Color Bullet Camera with 60 Infrared LEDs

- 420 line resolution
- 0 lux (IR illuminator on)
1.0 lux (IR illuminator off)
- Switches to B/W in IR mode
- Up to 60' IR Range
- 1/4" color CCD • 3.6mm lens
- Built-in fan operates when LEDs are active
- Auto white balance
- Auto back light compensation
- Internal synchronization
- Regulated 12V DC power supply (UL & CSA listed) included
- 4.7"L x 2.8"W x 2.8"H
- Power consumption 450 MA
- Warranty 5 years



CVC960IR

B/W Waterproof Camera with 8 IR LEDs & 60' Cable

- 420 line resolution
- 0 lux (when IR LEDs are active)
- 8 IR LEDs • 1/3" B/W CCD camera
- 3.6mm fixed focus lens
- CDS sensors turn IR LEDs on/off
- Built-in electronic iris
- Max. operating depth: 90 ft.

- Brass housing construction
- Cable, mounting bracket & regulated 12V DC power supply included (UL & CSA listed)
- 2"L x 1.5"W x 1.5"H • 7.4 oz.
- Warranty 5 years



CVC320WP

60 ft. cable & Black housing

CVC320WPW

3 ft. Cable & White housing

Nitrogen filled to protect internal components



B/W Waterproof Camera with 10 IR LEDs & 120' Cable

- 420 line resolution
- 0 lux (when IR LEDs are active)
- 10 IR LEDs
- 1/3" B/W CCD camera
- 3.6mm fixed focus lens
- CDS sensors turn IR LEDs on/off
- Built-in electronic iris
- Max. operating depth: 120 ft.

- Brass housing, black finish
- 120' of cable, mounting bracket & regulated 12V DC power supply included (UL & CSA listed)
- 2"L x 1.5"W x 1.5"H • 7.4 oz.
- Warranty 5 years



10 IR LEDs & 120 ft. cable **CVC321WP**



Waterproof Color Camera with 60' Cable

- 350 line resolution • 1.0 lux sensitivity
- 1/4" color CCD camera • 3.6mm fixed focus lens
- Built-in electronic iris
- Max. operating depth: 60 ft
- 60' of cable, mounting bracket & regulated 12V DC power supply (UL & CSA listed) included
- Brass housing painted black
- 2.5"L x 1.5"W x 3.5"H
- 9.8 oz.
- Warranty 5 years



CVC620WP

Waterproof Color Camera with Ultra Wide Angle Lens

170° Field of view - Ultra wide angle

- 380 line resolution • 1 lux
- 1/3" CCD format • 2.2mm lens
- For complete coverage of elevators, vestibules & other small areas
- Reg. 12V DC power supply included (UL & CSA listed)
- 3.3"L x 1.5"W • 6.5 oz.
- Warranty 5 years



CVC638170

Vandalproof Standard Resolution Weatherproof Color Dome Camera with IR LEDs

- VL650IRS** (silver housing, fixed lens)
VL650IRW (white housing, fixed lens)
VL650IRVFS (silver housing, varifocal lens)
VL650IRVFW (white housing, varifocal lens)



Features

- Internal IR LEDs with anti-reflective technology
- 22M IR range using 22 IR LEDs
- Tamperproof construction
- IP67 rated for extreme weather applications
- Optional wall, ceiling & junction box adapters are available
- Available in white & silver housings
- Multi-function dip switches for precise camera adjustment
- 5 year warranty

Specifications

CCD	1/3" SONY Super-HAD** CCD
Resolution	420 Lines
Lens	VL650IR = 3.6mm board lens VL650IRVF 2.8-11mm F1.4 varifocal auto iris lens
Min. Illumination	0 Lux (22M range) with LED on, 0.5 Lux with LED off
Number of Pixels	510 H x 492 V
Cell size	9.6µm H x 7.5µm V
TV Type	NTSC
Sync Type	Internal
Scanning System	2:1 Interlace
Video Output	1.0 Vp-p (sync negative) into 75 ohms
Video Test Output	Cable included
Gamma Characteristic	y=0.45 type.
S/N Ratio	48dB or more (AGC off)
Gain Control	Automatic
Electronic Shutter	1/60 Sec to 1/100,000 Sec
AG	ON/OFF
BLC	ON/OFF
Flickerless	ON/OFF
Mirror	ON/OFF
Test Illuminance Area	Average test illuminance by front view
Power Supply	Regulated 12V DC power supply included
Consumption Current	Max. 360mA
Reverse Polarity Protection	YES
Operating Temperature	-20°F to 120°F
Dimensions	6" Dia. x 3.75"H

**NOW WITH
MORE
POWERFUL
LEDs!**



**Super-HAD is a trademark of The Sony Corporation

Available 650 Series Mounting Accessories, Choose from Silver or White

650WMT
Wall Mount



650CP-Corner/Pole
Mount



For use with 650wmt Mount*

650 CMT
Ceiling Mount



Pole Adjust
From 15" - 21"

650JBM
Junction Box



* Straps required when used as a pole mount. See pg. 81

Vandalproof High Resolution Weatherproof Color Dome Camera with IR LEDs

HT650IRVFHQ (silver)
HT650IRVFHQW (white)

Intensifier Versions

HTINT650S (silver)
HTINT650W (white)



Wide Dynamic Range Versions

WDR650S (silver)
WDR650W (white)

NEW

10x Optical
Zoom Lens

HT65010XS (silver)

- 3.8-38mm motorized
- Control Locally or using RS485 from a DVR
- True Day/Night ICR
- Full featured OSD



**540 Lines
of High
Resolution**

Features

- 540 lines resolution
- Internal IR LEDs with anti-reflective technology
- 22M IR range using 22 IR LEDs
- Tamperproof construction
- IP67 rated for extreme weather applications
- Optional wall, ceiling & junction box adapters are available
- Available in white & silver housings
- Multi-function dip switches for precise camera adjustment
- 5 year warranty

Specifications

CCD	1/3" SONY HQ-1** + DSP
Resolution	540 Lines / 580 Lines Intensifier™ version
Lens	3-12mm F1.4 varifocal auto iris lens
Number of Pixels	768 H x 494 V
Cell size	9.6µm H x 7.5µm V
TV Type	NTSC
Sync Type	Internal
Scanning System	2:1 Interlace
Video Output	1.0 Vp-p (sync negative) into 75 ohms
Video Test Output	Cable included
Gamma Characteristic	y=0.45 type.
Min. Illumination	0 Lux (22M range) with LED on, 0.5 Lux with LED off
S/N Ratio	48dB or more (AGC off)
Gain Control	Automatic
Electronic Shutter	1/60 Sec to 1/100,000 Sec
AGC	ON/OFF
BLC	ON/OFF
Flickerless	ON/OFF
Day/Night Filter Exchange	AUTO
Power Supply	Regulated 12V DC power supply included
Consumption Current	Max. 360mA
Reverse Polarity Protection	YES
Operating Temperature	-20°F to 120°F
Dimensions	6" Dia. x 3.75"H

**NOW WITH
MORE
POWERFUL
LEDs**

**Sony HQ-1 is a trademark of The Sony Corporation



Available 650 Series Mounting Accessories, Choose from Silver or White

650WMT
Wall Mount



650CP - Corner/Pole
Mount



For use with 650wmt Mount*

650CMT
Ceiling Mount



Pole Adjust
From 15" - 21"

650JMT
Junction Box



* Straps required when used as a pole mount. See pg. 81

High or Standard Resolution Color Indoor Dome Camera

with Built-in IR LEDs & Anti-Reflection Technology

420 Line Standard Resolution Models

VL648IR
VL648IRW white
3.6mm lens

VL648IRVF
VL648IRVFW white
Comes with 2.8-11mm auto iris varifocal lens

540 Line High Resolution Models

CVC648IRHQ
CVC648IRHQW white
3.6mm lens

CVC648IRVFHQ
CVC648IRVFHQW white
2.8-11mm auto iris varifocal lens



Features

The VL648IR is a color day/night camera with special shielding to eliminate IR reflections. It is used for indoor ceiling applications to cover the full spectrum of bright light to no light surveillance. This dome camera can be wall or ceiling mounted by using the matching bracket that is included in the box.

Specifications

Resolution	420 lines standard or 540 lines high resolution
Image Device	1/3" Sony Super HAD* or 1/3" Sony HQ-1* color CCD w/ DSP
Minimum Illumination	0 lux with IR on, 0.5 lux with IR off
Electronic Shutter	Auto 1/60-1/100,000 sec.
Lens	3.6mm lens (optional lenses available) Varifocal version only - 2.8-11mm F1.4 auto iris Now with more powerful LEDs!
Synchronization	Internal 2:1
Scanning System	EIA standard 525 line 60 fields/second
S/N Ratio	Greater than 48 db
Back Light Compensation	Auto
AGC	Auto
Gamma Characteristic	0.45 type.
Video Output	1.0 Vp-p, 75 ohm
Operating Temperature	14°F to 120°F
LED IR Wave Length	850 NM
Number of LED	22 IR LEDs
Effective IR range	70' (depending on scene reflection)
Power Supply	12V DC regulated - included UL approved
Dimension	5"Diameter x 3"H
Weight	8 oz.
Case	High impact ABS
Warranty	5 years

*Super HAD, HQ-1 are trademarks of the Sony Corporation

**NOW WITH
MORE
POWERFUL
LEDs**

Flush Mount Kit
DFM2



See pg. 82 for Mounting Accessories: Flush Mount Kit - DFM2



Vandal Resistant Wall/Ceiling Mount Weatherproof Color Dome Camera with Auto Iris Varifocal Lens

Standard Resolution
Models

VL6WMTDV

2.8-11mm Auto Iris Lens

VL6WMTDV922

9-22mm Auto Iris Lens

High Resolution
Models

HT8WMTDV

2.8-11mm Auto Iris Lens



*Now with large varifocal range
- 1 camera does the work of 3!*

Features

Wall or ceiling mounting through the use of a unique qptli

Available Accessories:

68WMT Wall mount



Indoor Tamperproof Color Dome Camera For Wall or Ceiling Mounting

Includes a unique internal 3-way gimble, making the unit perfect for both wall and ceiling mounting.

The VL64TP provides a crisp picture under a wide variety of lighting conditions.

Please provide your own regulated 12V DC power supply or use our PSW5.

Can withstand hits from a 10lb. sledgehammer!

NEW

- 420 lines resolution
- 1 lux
- 1/4" image sensor interline transfer
- 2.9mm lens
- S/N ratio- better than 48dB
- Shutter Control 1/60 to 1/100,000 Sec
- Electronic Shutter 256 steps
- 12V DC regulated supply recommended
- Consumption Current 200mA
- Housing metal & polycarbonate with lined dome
- Gamma Correction 0.45
- Operating Temperature 4°F-131°F / 30 to 90% RH
- Video Out: Composite 1.0 VP.P / 75 OHM
- Weight 1lb.
- Dimensions 3.6" Dia. x 3" H



VL64TP
white housing VL64TPW

Economy Color and B/W Dome Camera with White or Black Housing

Wall or Ceiling Mountable

B/W Version 420 line resolution • 0.2 lux • 3.6mm lens

- 1/3" B/W CCD

Color Version 420 line resolution • 1.0 lux • 1/4" format

- 2.9mm lens

- Can be rotated 360° • Tilt angle +/- 90°
- Video output - BNC
- Requires regulated 12V DC power supply (See PSW5 in power supply section)
- 4" Diameter x 2.5"H



B/W version with black housing
VL183

B/W version with white housing
VL183W

2.9mm Color version with black housing
VL644DC

2.9mm Color version with white housing
VL644DCW



B/W lens options include 2.5mm, 6mm, 8mm, & 12mm. Color lens options include UWA (2.2mm), 3.6mm, 6mm, 8mm, 12mm, & 16mm. Please inquire on specific model availability & pricing.

Vandal Resistant, Weatherproof High Resolution Wall/Ceiling Mount Color Dome Cameras

CVC7WMTDV



Features

- Wall or ceiling mounting through the use of a unique internal 3-way camera bracket
- Flush or surface mounting using the supplied surface mount adapter box
- Supplied with a tinted and clear "lined" dome to accommodate a wide range of lighting conditions
- Conduit compatible
- Safety strap holds dome cover in place while making adjustments
- Fits over a standard 2-gang box

Specifications

Horiz. Resolution	.480 TV Lines
Image Device	1/3" Sony ExView**
Min. Object Illumination	.003 lux
Effective Picture Element	.470 K
Backlight Comp.	Active - Turbo
Elec. Shutter	1/60 - 1/100,000 second
Built-In Lens	DC auto iris varifocal lens 4-9mm
Video S/N Ratio	Greater than 50 dB
Weatherproof Standard	IP67
Operating Environment	-20° F to 122° F
TV Format	NTSC, color
Video Signal Output	1.0Vp-p/75 Ohm (BNC)
Power Consumption	.200mA
Power Requirements	.24V AC @ 20 VA or 12V DC regulated power supply (UL & CSA listing) included
Dimensions	5-3/4" Dia. x 4" H
Weight	3.3 lbs.

** Trademark of the Sony Corporation



Includes:

- Extra Dome Cover
- Power Supply
- Junction Box



B/W lens options include 2.5mm, 6mm, 8mm, & 12mm. Color lens options include UWA (2.2mm), 3.6mm, 6mm, 8mm, 12mm, & 16mm. Please inquire on specific model availability & pricing.



Economy Color Weatherproof CCD Bullet Camera

- 420 line resolution • 1.0 lux
- 1/4" color CCD camera
- 2.9mm lens with built-in electronic iris
- Electronic shutter system
- Mount & Regulated 12V DC power supply (UL & CSA listed) included
- Video output: BNC
- 2.6"L x 1"W x 1"H
- 10 oz.



CVC635N

Economy Color Weatherproof Bullet Camera In Plastic Housing with 16 IR Leds

Extreme weatherproof design

- 420 line resolution
- 0.92 lux (IR off)
- 0 lux (IR on)
- 4mm lens
- S/N Ratio more than 48dB
- Internal sync.
- Auto electronic shutter
- Regulated 12V DC power supply (UL & CSA listed), sunshield & mount included



VL62 Black Housing VL62W White Housing

Weatherproof Color Camera with Varifocal Lens and IR LEDs

- 420 line resolution
- 0.92 lux (IR off) • 0 lux (IR on)
- 1/3" color CCD camera
- 4-8mm varifocal lens
- 50' IR range* for great pictures in low light conditions



VL66 Black Housing VL66W White Housing

Weatherproof Metal Color Varifocal Bullet Camera with IR LEDs

- Metal housing • 420 line resolution
- 0.92 lux (IR off) • 0 lux (IR on)
- 4mm-9mm auto iris varifocal lens
- Dual Voltage: 12V DC / 24V AC
- IP-67 rated weatherproof design
- 12" power lead included
- 18 IR LEDs, with CDS control (distance up to 50')*
- Automatic white balance
- Back light compensation
- Mounting bracket included for wall, ceiling or pedestal use
- S/N Ratio more than 50dB
- Internal sync.
- Auto electronic shutter
- Removable and adjustable sunshield



VL67 Black Housing VL67W White Housing

* Depending on scene reflection



B/W lens options include 2.5mm, 6mm, 8mm, & 12mm. Color lens options include UWA (2.2mm), 3.6mm, 6mm, 8mm, 12mm, & 16mm. Please inquire on specific model availability & pricing.

Weatherproof Color CCD IR Camera

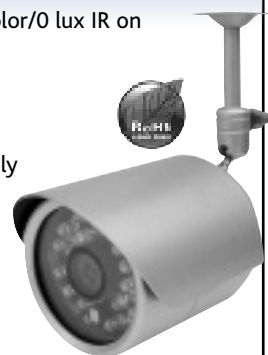
- 420 line resolution • 0.5 lux color/0 lux IR on
- 1/3" interline transfer CCD
- 14 IR LEDs up to 40' range
- Electronic shutter system
- 4.3mm lens
- Regulated 12V DC power supply required (Model: PSW5)
- 2.2"Dia. x 3.2"L • 19 oz.
- Removable sunshield offers addit weather protection & blocks out
- Wall/Ceiling mount included
- Silver housing



VL10

Weatherproof Color CCD IR Camera

- 420 line resolution • 0.5 lux color/0 lux IR on
- 1/3" interline transfer CCD
- 28 IR LEDs up to 60' range
- Electronic shutter system
- 4.3mm lens
- Regulated 12V DC power supply required (Model: PSW5)
- 2.6"Dia. x 3.7"L • 16 oz.
- Removable sunshield offers additional weather protection & blocks out sun glare
- Wall/Ceiling mount included
- Silver housing



VL11

Economy B/W Weatherproof Bullet Camera with Protective Sunshield

- 420 line resolution • 0.02 lux
- 1/3" CCD • Electronic shutter system
- 3.6mm lens
- Regulated 12V DC power supply (UL & CSA listed), cable & mounting bracket included
- 2.4"L x 1.1"W x 1"H
- 2.2 oz.
- Removable sunshield
- Black housing



VL128RS

Economy B/W Weatherproof Bullet Camera

- 420 line resolution • 0.02 lux
- 1/3" B/W CCD • 3.6mm lens
- Electronic shutter system
- Regulated 12V DC power supply (UL & CSA listed), mounting bracket included
- 2"L x 1"W x 1"H
- 2.2 oz.
- Black housing



CVC130R

Color Miniature Weatherproof Camera with Removable Sunshield

- 420 line resolution
- 1.0 lux • 1/3" color CCD camera
- 3.6mm lens
- Electronic shutter system
- Mounting bracket
- Power supply required
- 1 Volt p-p composite into 75 Ohms
- .95" Diameter x 3.15" L
- 3 oz.



VL634

Color Conical Pinhole Bullet Camera

Conical (pointed) pinhole lens.
Easier to install behind walls and in dropped ceilings.

- 420 line resolution
- 1.0 lux • 1/3" CCD format
- 4.3mm conical pinhole lens
- Black housing
- Regulated 12V DC power supply (UL & CSA listed) included
- Miniature mount included
- 2.3"L x 1"W x 1"H



CVC622PH



B/W lens options include 2.5mm, 6mm, 8mm, & 12mm. Color lens options include UWA (2.2mm), 3.6mm, 6mm, 8mm, 12mm, & 16mm. Please inquire on specific model availability & pricing.

Weatherproof Fully Adjustable IR Camera

- 420 lines of resolution
- 6mm Lens (VL12)
- 4mm Lens (VL124)
- 1/3" interline transfer CCD
- 0.5 lux color (led off),
- 0 lux (led on)
- IP 66 weatherproof operation
- IR trigger 4 lux/8 lux IR on/off
- 40' IR Range (depending on scene reflection)
- Video S/N ratio greater than 48dB (AGC off)
- 12V DC $\pm$ power supply required (model PSW5)



Wall/Ceiling
Mounting
Bracket
Included



VL12
VL124

Ultra High Resolution Color Dome Camera

- 550 line Color resolution
- .5 lux • 1/3" format
- 3.6mm lens
- Can be rotated 360°
- Tilt angle +/- 90°
- Built-in electronic shutter
- Video output/BNC
- Regulated 12V DC power supply (UL & CSA listed) included
- 4" Diameter x 2.5"H



CVC646HR black housing
CVC646HRW white housing

Dome Camera with 4-9mm Varifocal Lens

B/W Version 420 line resolution • 0.02 lux • 1/3" format
Color Version 420 line resolution • .92 lux • 1/4" format

- Can be rotated 360° • Built-in electronic shutter • Video output - BNC
- Color domes have built-in test connectors • Ceiling Mount
- Regulated 12V DC power supply (UL & CSA listed) included
- 4.4" Diameter x 3"H



CVC1805DC B/Wversion
CVC6405DC color version



B/W lens options include 2.5mm, 6mm, 8mm, & 12mm. Color lens options include UWA (2.2mm), 3.6mm, 6mm, 8mm, 12mm, & 16mm. Please inquire on specific model availability & pricing.

See pg 25
for details



IPINTT5 Traditional Camera
Uses C/CS Lenses, Intensifier
IPT5
No Intensifier Feature

See pg 31
for details



HTINTT5
Accepts C & CS type lenses,
Intensifier

See pg 38
for details



WDRT6
Wide Dynamic Range
Accepts C & CS type lenses
Dual Voltage, PIXIM

See pg 31
for details

VLINTT5
Value Line Traditional Box
12 Volt operation only,
Intensifier

Color Camera with 268X Zoom and Optional Remote Control

Day/Night Operation - IR cut filter is automatically removed at night.

- 470 line resolution
- 0.1 lux sensitivity in night mode
- 1/4" Super-HAD*
- 22X Optical zoom, 12X Digital zoom
- OSD Menu functions
- Control from rear of camera, by RS232, RS485 or RC652 optional remote control
- Auto slow shutter speed in low light conditions
- BLC, AGC • Auto iris



CVC652HZ
RC652 Optional remote controller

High Resolution 12V DC/24 VAC Dual Voltage Color Camera

- 580 line resolution • 0.50 lux
- 1/3" color Sony HQ1* camera
- ICR & mechanical IR cut filter (CVC865DN24) only
- Internal synchronization & line lock (24V AC mode)
- C or CS mount lenses
- Requires power supply
- Lens sold separately
- Accepts a video/DC auto iris lens
- 4.6"L x 2.2"W x 2.2"H



CVC614C
CVC865DN24

1/3" Color CCD Camera

- 420 line resolution • 0.5 lux
- 1/3" interline transfer CCD
- Internal synchronization
- C or CS mount lenses
- S/N Ratio more than 48dB
- 12V DC regulated power supply required
- Accepts a video/DC auto iris lens/Manual iris/Fixed iris
- Lens sold separately
- 4.3"L x 2.2"W x 2"H • 12 oz.



VL611C

Dual Voltage B/W CCD Camera with Built-In Electronic Iris

- 420 line resolution
- Operates on both 12V DC/24V AC
- 0.02 lux • 1/3" B/W CCD
- Internal synchronization
- Built-in electronic shutter
- Supports both video and DC drive auto iris lenses
- Lens sold separately
- Accommodates both C/CS type lenses
- Requires 12V DC or 24V AC power supply (not included) see power supply section
- 5"L x 2"W x 2"H



CVC190

* Trademark of the Sony corporation

The Latest Innovation for Ideal Facial Viewing

Features:

The TC25VF allows you to view a person's face by placing an unobtrusive camera at eye level. Pictures of the top of your customers head or hat are a thing of the past.

Our TC25VF counter camera operates on 24V AC/12V DC power which allows for line lock and "drift free" color pictures. It offers double speed WDR technology and a 2.6 to 6.0mm auto iris Varifocal lens.

The base allows for easy horizontal angle adjustment and the camera location inside the housing is vertically adjustable. The cable can be routed through the base or rear for a more concealed and secure installation.

- Built-in IR LEDs illuminate a person's face and balances backlit scenes
- Camera is height adjustable within the tower base.
- The camera can be tilted within the housing to achieve all required angles
- The tower base is horizontally adjustable and locks into position using set screws
- 2.6 to 6.0mm auto iris Varifocal lens allows you to "fine tune" your coverage
- Ultra high 480 lines of resolution • 16 LEDs with CDS
- 1/3" color Sony double speed CCD sensor • TV System: NTSC
- Day/Night operation with a mechanical IR cut filter
- Scanning System 2:1 Interlaced
- Sensitivity to 0 lux within a 10 foot range, 0.03 lux beyond 10 feet
- WDR (Wide Dynamic Range) technology minimizes back-lighting problems
- Cable can be routed through the bottom or rear of the tower
- Standard tower height is 24". Customized heights are available

Color Counter Camera with 2.9mm Lens, 24V AC Line Locked Operation and WDR (Wide Dynamic Range)

- WDR (Wide Dynamic Range) handles your toughest back light situations
- Stationary tower
- Fixed focal lens, for less demanding applications
- Ultra high 480 lines of resolution
- 1/3" color Sony double speed CCD sensor
- 0.03 lux low light sensitivity
- 2.9mm lens (optional lenses available)
- Metal and lexan housing
- Power Consumption: 200mA
- Power supply: 24V AC @ 20VA required
- Standard dimensions 24"H X 2.75"D



TC242.9

Color Counter Camera with 2.9mm Lens and 24V AC Line Locked Operation

- Stationary tower
- Fixed focal lens, for less demanding applications
- Ultra high 480 lines of resolution
- 1/3" color Sony Super-HAD* CCD sensor
- 0.03 lux low light sensitivity
- 2.9mm lens (optional lenses available)
- Metal and lexan housing
- Power Consumption: 200mA
- Power supply: 24V AC @ 20VA required
- Standard dimensions 24"H X 2.75"D



TC23



Facial ID Shot



Standard Camera Shot

Our color camera operates on 24V AC power which allows for line lock and "drift free" color pictures.

The base allows for easy horizontal angle adjustment and the camera location inside the housing can be tilted. The cable is located through the base for a more concealed and secure installation.

Indoor/Outdoor Infrared LED Illuminator

- 66 powerful infrared LEDs
- Range up to 50' in total darkness*
- Compatible with any B/W or IR sensitive color CCD camera
- CDS sensor activates IR LEDs only as needed
- Universal mount and 12V DC regulated power supply included (UL/CSA listed)
- 500 mA • Semi-covert operation for maximum distance (840 NM)
- Weather resistant to IP 67 standards
- Dimensions: 3" x 1"



IR300

*Depending on scene reflection

Indoor/Outdoor Infrared LED Illuminators

- Emits IR at 840nm
- For any low-light application
- Illuminator is housed in heavy duty aluminum
- 40 ft. range & 30° horz/vert angle dispersion
- Mounting bracket
- Power supplies not included
- 6.5"L x 3.5"W x 4.5"H
- 3 lbs.



117V version **IR200**
24V AC version **IR20024**

Wireless Color Weatherproof IR Camera

- 420 lines resolution
- 1/4" CCD image sensor
- 6mm lens
- 0 lux (with IR LED on) 1 lux (LED off)
- Transmission Frequency: ISM 2,400 MHz-2,483MHz - 4 Channels
- Transmission Power: 10mW/CE; 2mW/FCC
- Modulation Type: FM
- Bandwidth 18MHz
- Effective Range: 300 feet (depending on local conditions)
- Night Vision Range: 45 feet (depending on scene reflection)
- Regulated 12V DC power supply included - UL listed
- Dimensions: 2-1/2"(W) x 3-1/2"(D) x 5-1/2"(H)
- Weight: 10 oz.



WC2503

Wireless Camera Equipment - 300' Line of Sight Transmission



- 2.4Ghz mobile wireless monitor
- Runs on batteries or included power supply
- 2.5" LCD screen - 480 x 234
- 4 channels for multiple camera use
- Handles video and audio
- Fits in the palm of your hand

VMW2.5LCD



- 2.4Ghz mobile wireless transmitter
- Selectable to 4 channels
- Clips on to cameras BNC connector
- Includes power supply
- Power loops through the transmitter to power a 12V DC camera

WT2500



- 2.4Ghz mobile wireless receiver
- Selectable to 4 channels for use with multiple cameras
- Power supply included
- Adjustable antenna
- Standard video output
- RCA output

WR2501

Also Available: **WK2502** Kit includes WT-2500 and WR-2501 above

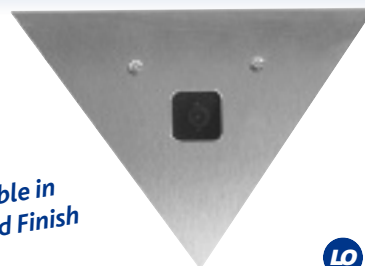
Color Corner Mount Camera

Color Version 420 line resolution • 1.0 lux • 1/4" CCD format • 2.9mm lens

• 90° corner mounting • Built-in electronic shutter

• Regulated 12V DC power supply (UL & CSA listed) included

• Video output: BNC • 4"L x 9"W x 7"H • 1.4 lbs



*Also Available in
Brass Colored Finish*



B/W version **CVC105CM**

Color version **CVC605CM**

Upgrade Mirror Front Plate for CVC105CM & CVC605CM

Tamper Resistant Color Stainless Steel Corner Mount Camera

• 420 line resolution

• 1.0 lux

• 2.9mm lens

• 90° corner mounting

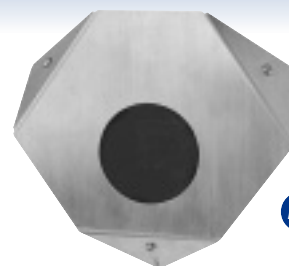
• Built-in electronic shutter

• 16 gauge steel face plate

• Tamper resistant screws

• Regulated 12V DC power supply

• Video output: BNC



*Vandal Resistant
Heavy Duty*

CVC607CMT

1/4" CCD format, 2.9mm lens

CVC607EXCM2.5B (brass finish)

1/3" CCD format, 480 line resolution, ExView 2.5mm lens, .03 lux

CVC607EXCM2.5

1/3" CCD format, 480 line resolution ExView 2.5mm lens

Color Corner Mount Camera with IR LEDs

• 420 line resolution

• Nine IR LEDs

• One CDS sensor

• 15' range

• 0.02 lux • 1/3" CCD format

• 3.6mm lens • 90° corner mounting

• Built-in electronic shutter

• 18 g. stainless steel housing

• BNC adapter incl.

• Video output: RCA female

• Regulated 12V DC power supply
(UL/CSA listed) included

• 4"L x 9"W x 7"H • 1.4 lbs



CVC608CMIR

NOTE: Most cameras on this page are available with high resolution electronics. Please inquire for price and availability.



B/W lens options include 2.5mm, 6mm, 8mm, & 12mm. Color lens options include UWA (2.2mm), 3.6mm, 6mm, 8mm, 12mm, & 16mm. Please inquire on specific model availability & pricing.

Color Ceiling/Wall Flush Mount Camera

- 420 line resolution • 1.0 lux
- 1/4" color CCD format
- 3.7mm pinhole lens
- Built-in electronic shutter
- 18 gauge low profile white metal housing
- Camera can be aimed +/- 45°
- Video output: BNC
- Regulated 12V DC power supply (UL & CSA listed) included
- 2.6" Diameter x 1.8"L



CVC649FM

Weatherproof Angle Mount Camera



B/W version/steel CVC95AM
Color version/steel CVC695AM
High resolution CVC695AMHR

Color Wall Mount Camera



B/W lens options include 2.5mm, 6mm, 8mm, & 12mm. Color lens options include UWA (2.2mm), 3.6mm, 6mm, 8mm, 12mm, & 16mm. Please inquire on specific model availability & pricing.

CCTV Camera with Working PIR Motion Detector

- 420 line resolution • 1.0 lux
- 1/4" CCD format • 3.6mm lens
- Camera in WORKING PIR housing
- Built-in electronic shutter
- NO/NC trigger
- Regulated 12V DC power supply (UL & CSA listed) & swivel mount included
- 2" L x 2.75" W x 4.75" H

313±E 9XUMZB5* Lzp*ZPVXp*RPSSBRBzPYXXBWZPTUUUBRBBRz[BVPVS[XSSBRSVVVWWSYY[XBVY

CCTV Camera with Non-Working PIR Motion Detector

Color or B/W Ceiling Mount Camera, Views Sideways or Straight Down

In-Wall Camera

Door Mount Camera

Clock Camera

Miniature High Resolution B/W or Color Pinhole Camera

B/W Version 420 line resolution • 0.5 lux • 1/3" CCD format
Color Version 420 line resolution • 1.0 lux • 1/4" CCD format

- Built-in 3.6mm lens with built-in electronic auto iris
- Electronic shutter system
- Cable outputs: Video BNC - DC power jack
- Power supply required (not included) see PSW2 (B/W) and PSW5 (Color)
- 0.75"L x 1"W x 1.25"H



B/W version **CVC57PHHR**
 Color version **CVC770PH**

Board Camera In Aluminum Housing

B/W Version 420 line resolution • 0.02 lux • 1/3" CCD format
Color Version 420 line resolution • .92 lux • 1/3" CCD format

- Built-in 3.6mm lens
- Cable outputs: Video RCA female/DC power jack
- Regulated 12V DC power supply (UL & CSA listed) included
- 1.5"L x 2"W x 3"H



B/W version **CVC44BC2**
 Color version **CVC544BC2**

Aluminum Camera Housing For Color Board Camera CVC521BC



- Pivotal bracket included
- 1.75"L x 2"W x 2"H

BCC20

Corner Mount Aluminum Camera Housing For Color Board Camera



- Housing for a mini CCTV board camera
- 5"L x 3.25"W x 4.25"H

corner mounting **BCCCM**
 flat wall mounting **BCCWM**

Compact Pinhole Color Board Camera

- 420 line resolution
- .92 lux
- 1/4" CCD format
- Built-in 3.6mm pinhole lens
- Cable outputs: Video RCA female - DC power jack
- Requires 12V DC power supply see PSW2
- 1.625"L x 1.625"W x 1.5"H



Pinhole version **CVC521PH**

Compact Pinhole B/W Board Camera

- 420 line resolution
- 0.5 lux
- 1/3" CCD camera
- Built-in 3.6mm pinhole lens
- Cable outputs: Video RCA female - DC power jack
- Requires 12V DC power supply see PSW2
- 0.50"L x 1.75"W x 1.75"H



CVC50PH

Compact Color Board Camera

- 420 line resolution
- .92 lux • 1/4" CCD format
- Built-in 3.6mm lens
- Electronic shutter system
- Outputs: Video RCA female-DC power jack
- Regulated 12V DC power supply (UL listed) included
- 1.625"L x 1.625"W x 1.5"H



CVC521BC

B/W Miniature Board Camera

- 420 line resolution
- 0.02 lux
- 1/3" CCD format
- Built-in 3.6mm lens
- Electronic shutter system
- Cable outputs: Video RCA female/DC power jack
- Power supply required (not included) see PSW2
- 1"L x 1.75"W x 1.5"H



CVC50BC



B/W lens options include 2.5mm, 6mm, 8mm, & 12mm. Color lens options include UWA (2.2mm), 3.6mm, 6mm, 8mm, 12mm, & 16mm. Please inquire on specific model availability.

LCD Flat Panel Monitors

VM19LCD



19" HIGH RESOLUTION TFT COLOR LCD MONITOR

- 1280(H) x 1024(V) resolution SXGA resolution
- Convenient front controls for on-screen programming
- Input signal detection provides easy connection
- 250cd/m2 Brightness
- 500:1 Contrast ratio
- VGA (D-Sub 15 pin), audio, video inputs
- Regulated 12V DC 50W power supply (UL & CSA listed)
- Screen: 19" TFT
- VESA compatible
- Dimensions: 17.9" H x 17.8" W x 6.1" D
- Weight: 10.1 lbs.
- 1 year warranty

VM5LCD



VM10LCD

10" HIGH RESOLUTION TFT COLOR LCD MONITOR with REMOTE CONTROL

- 640(H) x 480(V) resolution
- Convenient front controls for on-screen programming
- On-Screen controls: same as VM5LCD
- Audio: 2 in-2 out, 1 PC in
- Video: 1 D-SUB 15 pin, 2 video in-out (BNC), 1 S-video in
- 350cd Brightness • 300:1 Contrast ratio
- Input signal detection provides easy connection
- 3D Comb filter • 12V DC power supply
- Screen: 10.4" • VESA compatible
- Dimensions: 8.8"H x 10.3"W x 2.5"D
- Weight: 4 lbs.
- 1 year warranty

GO BIG!

Speco Technologies offers LCD monitors in sizes up to 37 inches!

Call 1.800.645.5516 for details on models listed below.

VMHT19LCD



NEW

19" ULTRA HIGH RESOLUTION TFT COLOR LCD MONITOR with REMOTE CONTROL

- 1280(H) x 1024(V) resolution
- Fast response time
- Multi video standard (NTSC / PAL / Auto)
- Multi language support
- 270cd Brightness • 700:1 Contrast ratio
- Audio: 2 in-2 out, 1 PC audio in
- Video: 1 D-SUB 15 pin, 2 video in-out (BNC), 1 S-video in
- Key lock function • 3D comb filter / 3D De-interlace
- Auto power on: AVI / AV2 / S-Video / VGA selectable
- Scale mode: (full / under / over / 4.3 / 16.9)
- Optional rack mount: RMHT19
- VESA compatible
- Dimensions: 15.5" H x 16.7" W x 2.9" D
- Weight: 14 lbs. • 1 year warranty

VM26LCD



26", 32", 37" HIGH RESOLUTION TFT COLOR LCD MONITOR with REMOTE CONTROL

- 1366(H) x 768(V) WXGA resolution
- 1280(H) x 1024(V) SXGA resolution
- Glass protective front panel
- Advanced on-screen menu control
- Multi video standard (NTSC / PAL / Auto)
- Multi language support • 500cd Brightness
- 800:1 Contrast ratio • Audio: 2 in-2 out
- Video: 1 D-SUB 15 pin, 3 video in-out (BNC), 1 S-video in 4 pin Din connector
- Input signal detection provides easy connection
- VESA compatible • 12V DC inputs
- Dimensions: 25.9"W x 3.7"D x 16.6"H
- Weight: 29 lbs. • 1 year warranty

VMTV17LCD



17" COLOR LCD A/V MONITOR with TV TUNER & REMOTE CONTROL

- 1280(H) x 1024(V) SXGA resolution
- Convenient front controls for on-screen programming
- Input signal detection provides easy connection
- 350cd/m2 Brightness
- 400:1 Contrast ratio
- A/V, S-video, VGA & antenna/cable inputs
- Regulated 12V DC 50W power supply (UL & CSA listed)
- Screen: 17" TFT • VESA compatible
- Dimensions: 16.25" H x 16.3" W x 2.9" D
- Weight: 11 lbs. • 1 year warranty

PVM2



19" PUBLIC VIEW COLOR LCD MONITOR and Camera

- Fast response time: 8ms
- High contrast: 700:1 and more
- 3D Comb filter/3D De-interlace
- Built-in 1/3" color DSP CCD
- 3.5mm-8mm varifocal DC lens type
- Passive infrared control for image switching
- Selectable mode:
 - PIR auto detector display/CCD display
- Adjustable PIR sensitivity/dwell time
- 1 year warranty

22" Professional High Resolution Touch-Panel LCD Monitor

NEW

- Operate TN, TH, PCL & PC PRO Series DVRs by touching the screen
- 1680 x 1050 high resolution under 16:10 aspect ratio with wide angle view
- Pelco-P/D protocol speed dome support
- Embedded PIP and Side-By-Side Scale Modes
- State-of-the-art 3D Color Comb Filter and 3D de-interlace technology
- Non-linear scaling ratio function support
- Adaptive 3D noise reduction
- Fast refresh rate and response time avoids lag effect
- Selectable 6500° K and 9300° K color temp. settings
- NTSC / PAL Video system support
- Built-in Key Lock feature for easy management
- 75 Ohm Auto Termination
- Built-in speaker for crystal clear audio
- 100mm x 100mm VESA mounting standard
- User-friendly GUI control CCTV system via touch panel
- 4:3 aspect ratio display for normal video with GUI
- Support mode for left-handed users
- Two RS-485 controls
- DVR and Matrix control support
- PC control by RS232 interface (driver required)
- Energy-saving light sensor detection

Touch-Panel Technology



VM22TSLCD

Miniature High Resolution B/W or Color Pinhole Camera



LCD1CBblack
LCD1CWwhite

- Holds most 10" - 23" LCD monitors
- Accommodates monitors with 75 or 100mm VESA standards
- Mast telescopes 17" - 27" from the ceiling rotates 360° (ceiling) and has adjustable -5° to +30° tilt
- Rotates 240° at the monitor includes clip based cable management system
- Load capacity - 25 lbs.

Universal LCD Monitor Low Profile with Tilt

LCDFTB

- Holds most 10"-23" LCD monitors
- Accommodates monitors with 75 or 100mm VESA standards
- Adjustable tilt -5 to +15° distance from back of wall - 1.7"
- Easy "key hole" wall mount system
- Load capacity - 25 lbs
- Silver powder coat finish

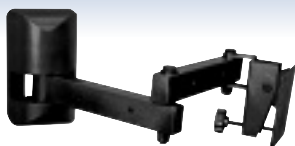
LCD Monitor Rack Mount



LCD1RM

- Accommodates monitors with 75 & 100 mm VESA standards
- Holds most 10" to 17" monitors inverts to also hold up to 23" monitors
- Recesses monitor into rack -9 space racking height
- Load capacity-50 lbs/black static resistant powder coat finish
- Includes mounting screws (monitor to mount) and rack screws (10-32 and 12-24)

Multi-Configurable Universal LCD Monitor Wall Mount



LCD1B

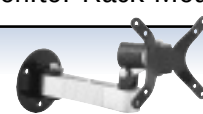
- Can be configured as a single arm, double arm articulating or near flush mount with parts provided
- Holds most 10" to 23" LCD monitors
- Accommodates monitors with 75 or 100mm VESA standards adjustable -5° to +30° tilt
- Rotates 240° at the monitor 160° at the wall
- Rotates 240° at the elbow joint (double arm configuration)
- Feed through wall plate with decorative cover includes clip based cable management system

LCD Monitor Rack Mount



LCDVLW1

- Supports LCD monitors up to 17 lbs.
- Heavy duty metal construction
- Mates to both 75mm & 100mm VESA hole patterns



LCDVLW2
10" extension arm
for additional versatility

- Mounting hardware and adjustment tool included
- Allows for 160 degree horizontal and 100 degree vertical adjustment of your LCD monitor

9" B/W High Resolution Monitor



9" Multi-Voltage, Multi-Standard Color Monitor

- 9" color flat tube, 500 TV lines
- NTSC/PAL system auto switchable
- With Y/C, composite video input
- Wide range power source (90VAC-260VAC)
- High performance
- Dual comb-filter
- Front controls hidden behind a door



COLOR 9"

VM905C

17" or 21" Color High Resolution Monitor with Audio

- More than 520 line resolution (17")
- More than 450 line resolution (21")
- Convenient front controls
- Rugged metal cabinets
- Looping video input/output
- Hi/Lo impedance switch
- With audio capability
- With YC output
- Comb filter for enhanced picture quality
- 15.25"L x 16.5"W x 16.4" (17")
- 19.5"L x 19.25"W x 18"H (21")
- UL listed



COLOR 17" OR 21"

VM2105C (21")

VM1705C (17")



Portable CCTV Installation & Test Monitor

- Convenient case with shoulder strap
- Handy compact size and shock resistant
- Built-in rechargeable battery
- Includes battery charger
- TFT LCD panel
- 480 x 234 Resolution
- 350cd Brightness
- 250:1 Contrast ratio
- L/R $\pm 45^\circ$ U/D: 10°/30° View angle
- NTSC • Video input 1 Vp-p at 75
- 30 mVp-p ~ 100 mVp-p Audio input
- 0.5 Watts max / 8 Audio output
- Video/Audio connector: RCA W/BNC plug Adapter
- 12V.1.1AH. Rechargeable battery
- 12V DC power supply
- Power consumption 4.5 watts
- 6"W x 5.1"H x 3"D
- 4.3lbs.



Extra Battery **BVMS2** **VMS2**



Real-Time Color Quad Splitter Video Compressor with Alarm Inputs

- For COLOR and B/W cameras
- Camera sequencing
- Freeze frame on all cameras
- Security lock out button
- Built in motion detection
- Better individual controls
- Alarm inputs, outputs, camera titling and time-date
- On-screen programming
- Includes 117VAC/12V DC power supply
- 10"L X 13.5"W X 2.6"H

New Low Price!

For Color or B/W Cameras



RQS5C

Sequential Video Switcher Four & Eight Position

- Automatic sequential video switching
- Override for homing or bypass
- LED camera indicator
- Sequencing time adjustable from 0.5 to 30 seconds
- 9.5"L x 12.25"W x 1.75"H



Four position **SQS4B**

Eight position **SQS8B**

Color Duplex & Triplex Multiplexers



- Allow multiple image sources on one screen while recording full-screen images on a VCR.
- Adj. gain control in VCR playback mode
- Prog. recording between 2-999 hrs.
- Compatible with time lapse VCRs.
- Option available to watch full or multi-screen picture with adj. dwell time and during VCR playback.
- Two distinct sounds alert video loss and alarm detection.
- Built-in time date generator along with 8 character camera title function.
- On-screen programming
- Up to 100 records to record alarm and video loss.

16 ch. duplex **RMX16CD**

9 ch. duplex **RMX9CD**

4 ch. triplex **RMX4CD**

1 Input to 4 Outputs - Video Distributor for Coaxial Cabling

- VIDDIST** • 1 video input to 4 video outputs • Power: 12V DC
• Operates with Color or B/W signals

BNC75 (optional)

- 75 ohm resistor in a BNC connector
- Terminates unused outputs of a distribution amplifier (**VIDDIST**)
- Can be used with any video equipment requiring a 75 ohm BNC termination



VIDDIST

1 Input to 1 Output - Video Amplifier

- 1 video input to 1 video output
- 10dB video gain compensation, amplification and HF compensation
- Sharpness and brightness adjustment works perfectly with DVR
- Transmission range: 3,200 ft. (RG59 coaxial cable)



VIDAMP

4 Input to 4 Output Video Amplifier

- 4 video input to 4 video output
- 10dB video gain compensation, amplification and HF compensation
- Sharpness and brightness adjustment works perfectly with DVR
- Transmission range: 3,200 ft. (RG59 coaxial cable)



VID4AMP

Coaxial Balun For DVR

- BNC male to BNC female with mini cable 11.8"
- Gives DVR immunity from interference
- Built-in highly balanced mode of video transmission which is immune to interference from sources of noise: data signals, other video signals, nearby power, ringing telephones, fluorescent lights, transformers and more



VIDDVR

Models for Coax & UTP

Ground Loop Isolator Built-In Video Balun

- BNC male to 2 pin terminal block (UTPGL)
- Built-in video BALUN transmits a full motion mono chrome video signal up to 1,900 ft., color video signal up to 980 ft.
- Eliminate coaxial cable
- Built-in TVS (Transient Voltage Suppressors) for surge protection



Also available for twisted pair systems **VIDGL UTPGL**

For coax

Full Range RF Modulator with LED Display

- Converts video & audio signals to RF
- Digital phase lock loop tuning eliminates channel drift
- 120 selectable channels UHF - Channels 14-69; Cable Channels 65-94, 100-125
- Full channel memory for power outages
- Surface mount technology PC Boards
- Isolated left & right inputs improve audio performance
- Designed for easy tuning
- 3.8"L x 4.1"W x 1.5"H



MOD1001D

Channel 3/4 RF Modulator

- Converts a composite video signal to an RF signal
- Channel 3-4
- Connect a video camera to a TV for security surveillance
- Connect a home satellite receiver to a standard TV
- Inputs: RCA, Audio and Video
- Outputs: Coax F connector - UL listed
- 3.25"L x 4.5"W x 1.25"H



RFM1A

Remote Control For Intensifier Series Cameras

- IR remote control and receiver
- Replaces lost or damaged controls
- Upgrade certain Intensifier cameras for remote control
- Output of the receiver is RS485C over UTP
- Controls the OSD of many Intensifier cameras
- Requires a PSW5 12 volt DC power supply
- May require the model RC485C accessory in some cases.



RCINT

Remote Control For HT7246iHR/7247iHR Dome Cameras

- Receives RS485C signals from DVRs or the RCINT
- Converts signals to the proper format for optional use with models HT7246iHR/7247iHR
- Attaches to the base of the dome camera, making a weatherproof seal and allowing the wires to pass through.



RC485C

Active Video/Audio/Data Twisted Pair Transmission



- Transmit video, audio and data signal (RS422, RS485)
- Three position range switch for gain select on transmitter
- Five position distance range switch on receiver, brightness adjustment, two video outputs
- Built-in transient protection and ground lifting
- Extended range for UTP Transmission

UTP4A

VGA/Keyboard/Mouse CAT5 Extender – PS/2 Interface

- Extend VGA and keyboard mouse over 2 CAT5 UTP cables (instead of VGA cable and keyboard mouse cable)
- Allows extension for transmission range of up to 300 feet
- Includes local and remote unit
- No power required



NEW

KVMPC2

Keyboard/Mouse CAT5 Extender– USB Interface

- Extend USB keyboard and mouse via one CAT5 cable
- Allows extension for transmission range of up to 300 feet
- Includes local and remote unit (local unit – PC side: USB to RJ45, remote unit (keyboard mouse side): RJ45 to PS/2)
- No power required



NEW

KMUSB

CAT5/VGA Extender

- Operate your VGA monitor up to 440' from your PC
- Includes 2 units: transmitter and receiver
- Transmitter built-in virtual DDC to avoid improper setting for resolution & frequency and built-in sync mode selection for signal stability
- Receiver has built-in sync mode selection for signal stability
- Supports up to 1290 x 1024 pixels
- Extend transmission range to over 440' via standard 4 pairs CAT5 UTP/STP cable instead of VGA cable
- No power required
- Perfect for classroom, lecture halls, video information displays, etc.

NEW

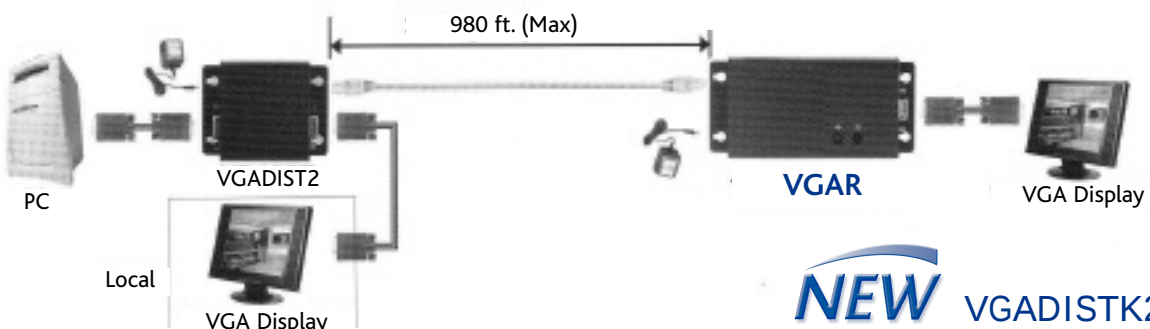


VGA135

CAT5/VGA Kit, 1 Input to 2 Output Splitter

Kit includes: • One VGADIST2 transmitter • One VGAR receiver

- Dual output: 1 VGA loop output for local, plus 1 x CAT5 RJ45 output for remote side
- Allows use of CAT5 cable instead of VGA cable
- Long range transmission of up to 980 feet (max).
- Built-in contrast, brightness adjustment at VGAR receiver
- Supports up to 1600 x 1200 @85Hz



NEW

VGADISTK2

CAT5/VGA Kit, 1 Input to 5 Output Splitter

VGADISTK5

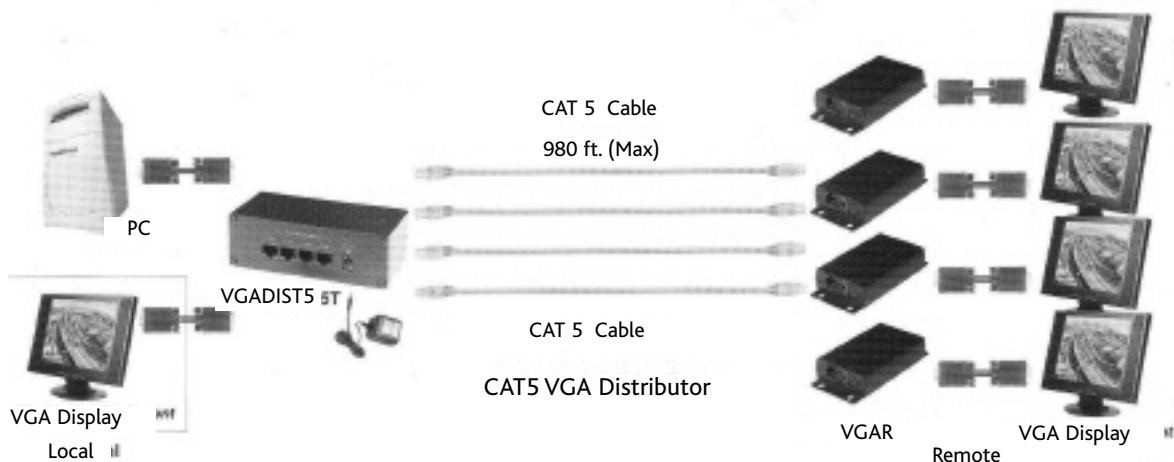
Kit includes:

- One VGADIST5 transmitter
- One VGAR receiver

NEW



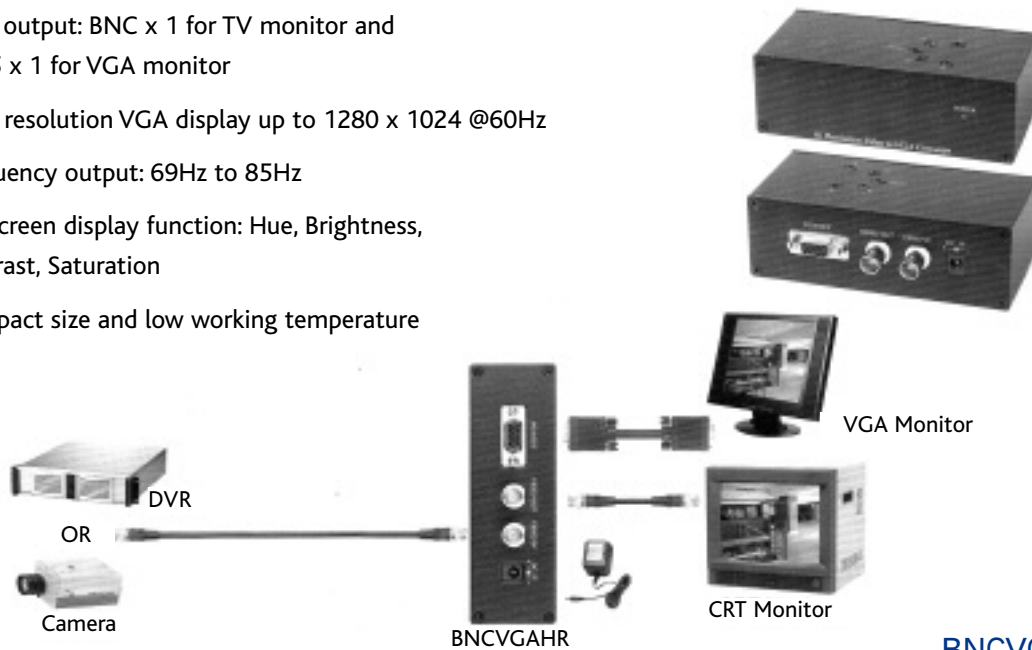
- Dual output: 1 VGA loop output for local, plus 4 x CAT5 RJ45 outputs for remote side
- Use 1 VGAR receiver for each remote item with VGA input (order separately)
- Allows use of CAT5 cable instead of VGA cable
- Long range transmission of up to 980 feet (max).
- Built-in contrast, brightness adjustment at VGAR receiver
- Supports up to 1600 x 1200 @85Hz



CAT5 Long Range VGA Receiver

High Resolution Video to VGA Converter

- Allows composite video output to play on a VGA monitor (CRT or LCD)
- Dual output: BNC x 1 for TV monitor and DB15 x 1 for VGA monitor
- High resolution VGA display up to 1280 x 1024 @60Hz
- Frequency output: 69Hz to 85Hz
- On screen display function: Hue, Brightness, Contrast, Saturation
- Compact size and low working temperature



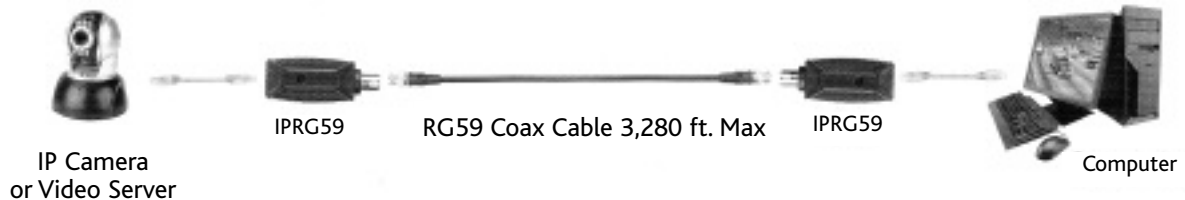
BNCVGAHR

Audio CAT5 Extender and Ground Loop Device

- Gold-plated RCA female to RJ45
- Used in pairs via one CAT5 UTP

IP Converter for RG59 Coax

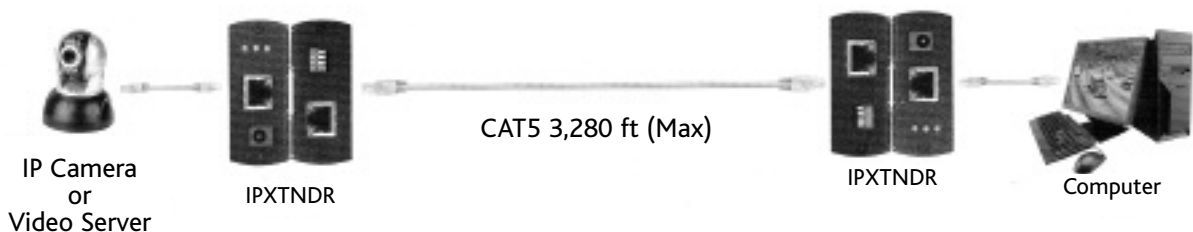
- Send IP camera signal over existing coaxial (RG59) cable
- Exceeds 802.3 10BaseT NEXT specification, isolating the receiver from the transmission signal
- Transmission up to 3,280 feet (max.)
- No power required



IPRG59

Active IP Extender Over CAT5

- Send IP camera signal over existing CAT5 cable
- Exceeds 802.3 10BaseT NEXT specification, isolating the receiver from the transmission signal
- Transmission up to 3,280 feet (max.)
- No power required



IPXTNDR

Color Four Wire Video Security Intercom System

Our two-way video security intercom system has a flat 4" screen. It offers a two way manual switcher, a 165 foot maximum wiring distance and can be used with an optional door release. The manual switcher allows the system to be expandable up to 2 monitors and 2 cameras. The system comes with an outdoor flush mount camera.

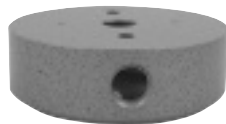


extra surface mount color monitor
VDPM6F

VDPM6S (Color Monitor)

VDPC6F

Conduit Compatible Dome Extension For Select Dome Cameras



- Fits HT7246iHR series
- Acts as junction box and conduit access



CVCTPEXT

Weatherproof Heavy Duty Camera Housings Include Built-In Heater/Blower & Bracket

- Operates on 24V AC
- Ivory Housing Color
- Use PSW4 power supply
- Hardware will not rust
- Housing with heater,

- blower, & bracket
- Housing dimensions:
15 1/4"L x 5 1/2"W x 4"H
- Bracket dimensions:
11 1/2"L x 3 1/4"W x 4"H



VCH400HBMV
VCH400MT

Housing & bracket only



BCP & 650CP Corner/ Pole Adaptor For use with cameras as noted in this catalog

- Pole mount applications require straps which are sold separately see below
- Optional straps available in sizes to fit poles From 3" Dial. & above



CPSD10X
BCP gray

650CPS silver
650CPW white

DVR/VCR 16 Gauge Steel Lock Box with Fan



Front



Rear

For desktop DVR or VCR units measuring
up to 21" W x 21" L x 8" H

LB1

Straps Used with BCP & 650CP Pole Mounts See Above

650STRAP7:

For pole diameters 2.8" - 7" *

650STRAP12:

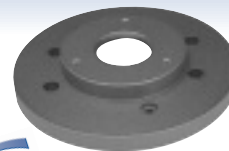
For pole diameters 6.7" - 12" *

*Straps can be combined for larger Diameter poles



Bullet Camera Mounting Accessory

Use with the CVCTPEXT to provide
"Cable through the Mount" bullet cameras
with a junction box / conduit access point.
Used alone allows these same cameras to
cover a single gang box. 5" Diameter.
Comes with all necessary hardware and
gaskets for weatherproof installations.



NEW

CVCTPLATE

T-Bar/Wall/Ceiling Pedestal Camera Mount

- All parts included to use as a T-Bar, Wall, Ceiling or Pedestal mount.
- Attaches to dropped Ceilings



CSTTBAR

11" Heavy Duty Cast Aluminum Camera Mount Bracket



CST175A Aluminum **CST175** Silver

Wall Mount For HT7246iHR Dome Camera



7246WMT

Universal Camera Bracket with 90° Attachment

- Multiple configurations with included parts



CST110

Universal Camera Bracket



- Black metal bracket
- 360° rotation
- Use with mini cameras
- Standard 1/4" thread
- 2.25"H x 1.75"W

CST115

6" Universal Camera Brackets



Black **CST125**
Almond **CST125A**



CST100

Dome Flush Mount Kit

The DFM2 Dome Flush Mount Kit allows select Speco Technologies dome cameras to be flush mounted into walls and ceilings.

Compatible dome camera models:

HT7246IHR, HT7247IHR, CVC6246IHR Series, CVC6146SCS Series, VL648IR Series, CVC648IR Series & the CVC6M6DC mirrored dome.

- Back box easily flush mounts into hollow walls and ceilings.
- Flush mount box is secured with the use of four EZ mount retaining clamps.
- Perfect for existing construction.
- Preconfigured to fit several types of Speco tamperproof and indoor dome cameras



NEW

DFM2

Camera Lenses, Cables & Adapters

WE STOCK A COMPLETE LINE OF LENSES TO FIT ALL CAMERAS. ALL LENSES ARE CS MOUNT UNLESS SPECIFIED.

NOTE: ALL C MOUNT LENSES CAN BE USED ON CS MOUNT CAMERAS WITH ADAPTER RING

C/S Varifocal Lens

VF3.58	3.5-8mm F1.4	Manual Iris	
VF3.58 DC	3.5-8mm F1.4	DC Auto Iris	4 pin connector
VF2.812	2.8-12mm F1.4	Manual Iris	
VF2.812 DC	2.8-12mm F1.4	DC Auto Iris	4 pin connector
VF660 DC	6-60mm F1.6	DC Auto Iris	4 pin connector
VF5100 DC	5-100mm F1.8	DC Auto Iris	4 pin connector

C/S Monofocal Lenses

CL8	8mm F1.3	No Iris
CL16	16mm F1.6	No Iris
CSAR1	CS Mount Adapter Ring	

Megapixel Lenses

VFMP2.2812	2.8mm-12mm	Manual Iris
VFMP2.2812DC	2.8mm-12mm	Auto Iris

Extra Lenses For Color & B/W Board Cameras



CLB2.2	2.2mm board camera lens
CLB2.5	2.5mm board camera lens
CLB2.9	2.9mm board camera lens
CLB3.6	3.6mm board camera lens

CLB6	6mm board camera lens
CLB8	8mm board camera lens
CLB12	12mm board camera lens
CLB16	16mm board camera lens

Power Supplies & BNC Cables



24 Volt AC power supply, 20 Volt amps terminal connections	PSW3
24 Volt AC power supply, 50 Volt amps terminal connections	PSW4
12 Volt DC power supply, 1000mA, 1amp center positive	PSW5
24/28 Volt AC (selectable) @ 3 amps	PSW6



BNC

RCA

3 ft. cable (BNC male to BNC male)	...BB3
6 ft. cable (BNC male to BNC male)	...BB6
12 ft. cable (BNC male to BNC male)	...BB12
25 ft. cable (BNC male to BNC male)	...BB25
50 ft. cable (BNC male to BNC male)	...BB50

CCTV Power/Video Extension Cables, Combines Both Power & Video Signal in One Multi-Purpose Cable



BNC to RCA	
25 ft. cable	CBL25
50 ft. cable	CBL50
100 ft. cable	CBL100
150 ft. cable	CBL150

BNC to BNC	
25 ft. cable	CBL25BB
50 ft. cable	CBL50BB
100 ft. cable	CBL100BB
150 ft. cable	CBL150BB

Uninterruptible Power Supply



UPS500VA

Features

- Protection for computer/security equipment against power failure, power surge and power sag
- EMI/RFI noise filter
- Four AC power outlets
- Tel/Internet/ADSL & Network surge protection
- UPSMON plus monitoring software for data saving, automatic shutdown and power protection
- 3 LED display UPS functions
- Short circuit

INPUT	Voltage	120V +/- 20%
	Frequency	50 or 60Hz auto sensing
OUTPUT	Voltage	120V +/- 20%
	Capacity VA/W	500/300
	No. of sockets	3 / 1
	Frequency	50 or 60Hz +/-0.3Hz
PROTECTION	Transfer Time	2/4 milliseconds
	Unit Input	Fuse for overload & short circuit protection
	Overload Protection	UPS automatic shutdown if overload exceeds 105 % of nominal at 20 seconds, 120% at 10 seconds, 130% at 3 seconds.
	Short Circuit	UPS output out off immediately
BATTERY	Surge	480 Joules
	Type	Sealed, maintenance-free lead acid batteries, with 3-6 years typical lifetime
	LED Indicators	Battery Check
	Typical Recharge Time	4 hours
INTERFACE	Protection	Automatic self-test, Over discharge protection, short circuit protection by fuse
	RS-232	YES
ALARM	Battery Back-up	Slow beeping sound every 4 seconds
	Battery Low	Rapid beeping sound every seconds
	105% load	Continue beeping sound every 4 seconds
	Overload	Continue beeping sound, Overload LED Always On
PHYSICAL	Net Weight kg (lbs)	3.64 (8.0)
	Dimension W x D x H (inch)	250 x 200 x 50 (9.8" x 7.9" x 1.9")



B/W or Color?

Until recently B/W cameras accounted for the majority of the CCTV market. Their combination of high quality and low cost made them the obvious choice for system's use. They offer high resolution of between 400 to 700 lines, and low light sensitivity of .02 lux or better. They are also

automatically IR sensitive for use with supplemental or existing sources of IR lighting. They are priced lower than color cameras but their cost savings do not stop there. The support equipment used with B/W cameras costs considerably less also. For example, a B/W multiplexer costs less than a color version. The same cost comparison could be made for B/W vs. color quad splitters and monitors. Generally speaking you can put together a high quality B/W CCTV system that will remain trouble free for years to come at a fair price.

Color equipment has recently made tremendous advances. The cameras now range from a moderate 350-line resolution with 1 lux of sensitivity, to 550 lines of resolution with .03 lux of sensitivity. Many color cameras are classified as day/night allowing them to give you good color pictures by day, and then switching to a high quality B/W picture at night. Color cameras can now be IR sensitive, a feature that was unheard of not too long ago. In addition, DSP (digital signal processing) has made color cameras easy to use while taking many of the controls (and decisions) away from the installer. On the price side color cameras have been coming down in cost along with their associated support equipment like multiplexers, quad splitters and monitors. Items like DVRs and VCRs don't care if a camera is color or B/W so the cost of these items remains constant. A color system today will still cost about 30% more than a similar B/W, but to many people it is well worth it to see color images, like they see on their home TV sets. Just remember that color is less forgiving than B/W. A marginal installation that displayed a great B/W picture may not stand up to a color signal. Incorrect cable, connectors, splitters and power are just some of the items to watch out for when going color.

Resolution and Angle of Coverage

Resolution refers to a camera's ability to see detail, while the Angle of Coverage deals with how much area is being placed onto the monitor for viewing. Normally we think about these two specifications separately, but when designing a system it is best to combine them. The highest resolution camera will not be able to identify a person's face if the camera is watching an area of 100' in width, whereas the lowest resolution camera will give you facial identification if the camera is only viewing the width of a doorway. Always try to match the covered area to the surveillance objective. If you are asked to cover a large parking lot there is no set formula to accomplish this. You must find out what your customer expects the camera to see. A single normal resolution camera can show a large parking lot if the objective is to see how crowded it is. A single high-resolution camera will add some detail to the scene and begin to show certain details of the cars and the people walking around. Multiple cameras, each showing smaller areas of the parking lot will be required if you want details of what the people are doing and what they look like. Speed Domes offer the ability for a single camera to cover large areas with varying amounts of detail. They accomplish this by panning, tilting and zooming either under operator control or through pre-programmed sequences. The drawback of Speed Domes is the high initial cost and the fact that they can only watch one area at a time, leaving other areas vulnerable.

How far will the camera see?

A camera will see to infinity. If you point the camera towards the moon, it will see it. What the customer really wants to know is how far the camera will see with clarity. It is your job to find out the distance and width that the customer needs to see. Do they want to recognize a face or see if a large truck is in a parking lot? This will determine the mm of the lens and the area of coverage. There are various methods for determining what size lens to use in various circumstances, including lens wheels and computer programs. Here is a short summary of coverage for the most popular lens sizes:

Angles (in degrees) of select lenses on 1/3" and 1/4" format cameras

1/3" Format				1/4" Format		
Lens mm	Horizontal Degrees	Vertical Degrees	Diagonal Degrees	Horizontal Degrees	Vertical Degrees	Diagonal Degrees
2.5mm	90	72	101	65	51	85
2.9mm	80	64	92	57	44	77
3mm	77	62	90	56	43	75
3.6mm	67	53	80	47	36	65
4mm	63	48	74	43	33	60
6mm	44	33	53	29	22	42
8mm	34	26	41	22	17	32
12mm	23	16	28	15	11	21
16mm	17	13	21	11	8	16

Model	Color B/W Day/Night	Resolution	Light Level (lux)	Voltage	Power Supply	Weather proof	Standard Lens mm	Optional Lenses	Format	Sun Shield	LEDs & Range	Conduit compatible with cable "through the mount"	Other Features
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CVC122PH	B/W	420	0.05	12VDC	Incl.	No	4.3mm Conical Pinhole	No	1/3"	No	N/A	No	Conical Pinhole for Thick Materials
CVC130R	B/W	420	0.02	12VDC	Incl.	Yes	3.6mm	No	1/3"	No	N/A	No	
CVC1700 Series	B/W	420	0.02	12VDC	Incl.	Yes	3.6mm	Yes	1/3"	Yes	N/A	Yes	Cable Through the Mount
	B/W	420	0.02	12VDC	Incl.	Yes	4-9mm VF	No	1/3"	Yes	N/A	Yes	
CVC622PH	Color	380	1.0	12VDC	Incl.	No	3.6mm Conical Pinhole	No	1/3"	No	N/A	No	Conical Pinhole for Thick Materials
CVC635N	Color	420	1.0	12VDC	Incl.	Yes	2.9mm	Yes	1/4"	Yes	N/A	No	
CVC6700 Series	Color	420	1.0	12VDC	Incl.	Yes	2.9mm	Yes	1/4"	Yes	N/A	Yes	Cable Through the Mount
	Color	420	1.0	12VDC	Incl.	Yes	4-9mm VF	No	1/4"	Yes	N/A	Yes	Cable Through the Mount
CVC627SCS	Color	540	0.5	12VDC	PSW-5	Yes	6mm	No	1/3"	Yes	20 IR/45'	No	Full OSD Control
CVC6700SCS	Color	540	0.5	12VDC	PSW-5	Yes	3.6mm	Yes	1/3"	Yes	N/A	No	Full OSD Control
CVC6705SCS	Color	540	0.5	12VDC	PSW-5	Yes	4-9mm VF AI	No	1/3"	Yes	N/A	No	Full OSD Control
CVC550EX	Color-D/N	480	0.03	12VDC/24VAC	PSW-4	Yes	5-50mm VF AI	No	1/3"	Yes	N/A	Yes	Cable Through the Mount
CVC637EX	Color-D/N	470	0.03	12VDC	Incl.	Yes	3.6mm	Yes	1/3"	Yes	N/A	No	Miniature Bullet
CVC6800EX	Color-D/N	470	0.03	12VDC	Incl.	Yes	6mm	Yes	1/3"	Yes	N/A	Yes	Cable Through the Mount
CVC6805EX	Color-D/N	470	0.03	12VDC	Incl.	Yes	4-9mm VF	6mm	1/3"	Yes	N/A	Yes	Cable Through the Mount
CVC7700DN	Color-D/N	470	0.03/0*	12VDC/24VAC	PSW-4	Yes	4mm	No	1/3"	Yes	12 IR/60'	Yes	Cable Through the Mount
CVC7706DNV	Color-D/N	540	0.03/0*	12VDC/24VAC	PSW-4	Yes	3.5-9mm VF AI	No	1/3	Yes	12 IR/75'	Yes	SGT/Heater-Line Lock 24V Mode
CVC870EX	Color-D/N	470	0.03*	12VDC	Incl.	Yes	4-9mm VF AI	No	1/3"	Yes	N/A	Yes	Mechanical IR Filter- Heater, SGT
HT7715DNV	Color-D/N	470	0.03/0.00*	12VDC/24VAC	PSW-4	Yes	3-9mm VF	No	1/3"	Yes	N/A	Yes	Cable Through the Mount
HT7815DNV	Color-D/N	480	0.03/0.01*	12VDC/24VAC	PSW-4	Yes	3-9mm VF	No	1/3	Yes	12 IR/60'	Yes	Heater/Heater-Line Lock 24V Mode
HT7816DNV	Color-D/N	600	0.5/0*	12VDC/24VAC	Incl.	Yes	3.8-95mm VF AI	No	1/3"	Yes	12 IR/75'	Yes	Mechanical IR Filter- Heater, SGT
HT7915DNV	Color-D/N	480	0.03/0.00*	12VDC/24VAC	PSW-4	Yes	5-50mm VF	No	1/3	Yes	12 Super/100'	Yes	Cable Through the Mount
HTB10X	Color-D/N	580	0.1/0*	12VDC/24VAC	Incl.	Yes	3.8-38mm VF AI	No	1/3"	Yes	Intensifier	Yes	Heater/Heater-Line Lock 24V Mode
HTINTB1	Color	580	.002	12VDC/24VAC	PSW-4	Yes	3-9mm VF AI	No	1/3"	Yes	Intensifier	Yes	10X Optical Zoom/10X Digital Zoom
HTINTB2	Color	580	.002	12VDC/24VAC	PSW-4	Yes	5-50mm VF AI	No	1/3"	Yes	Intensifier	Yes	See color in the dark w/ no IR
HTINTB4	Color	580	0.2/0.09*	12VDC/24VAC	PSW-4	Yes	3.8-95mm VF AI	No	1/3"	Yes	Intensifier	Yes	See color in the dark w/ no IR
HTINTB8	Color	580	0.002	12VDC/24VAC	PSW-4	Yes	2.8-12mm VF	No	1/3"	Yes	Intensifier	Yes	See color in the dark w/ no IR
HTINTB9	Color	580	0.002	12VDC/24VAC	PSW-4	Yes	2.8-12mm VF	No	1/3"	Yes	Intensifier	Yes	See color in the dark w/ no IR
HTINTB10	Color	580	0.002	12VDC/24VAC	PSW-4	Yes	2.8-12mm VF	No	1/3"	Yes	Intensifier	Yes	See color in the dark w/ no IR
CVC320WP	B/W	420	0.02/0*	12VDC	Incl.	Yes	3.9mm	No	1/3"	Yes	8 IR/15'	No	Nitrogen filled
CVC321WP	B/W	420	0.02/0*	12VDC	Incl.	Yes	3.9mm	No	1/3"	Yes	10 IR/25'	No	120' Cable
CVC620WP	Color	350	1.0	12VDC	Incl.	Yes	3.6mm	No	1/4"	No	N/A	No	Waterproof
CVC627.B.W	Color-D/N	420	0.1/0*	12VDC	Incl.	Yes	3.6mm	No	1/4"	Yes	20 IR/45'	No	Waterproof
CVC627M.MR	Color-D/N	420	0.1/0*	12VDC	Incl.	Yes	2.9mm	No	1/4"	Yes	12 IR/45'	No	Waterproof
CVC628M.MR	Color-D/N	420	0.1/0*	12VDC	Incl.	Yes	3.6mm	No	1/3"	Yes	12 IR/45'	Yes	Marine Applications
CVC960IR	Color	420	1.0	12VDC	Incl.	Yes	3.6mm	No	1/4"	Yes	48 IR/60'	No	Built-In Fan
CVC638/170	Color	380	1.0	12VDC	Incl.	Yes	2.2mm	No	1/3"	No	N/A	No	170° Coverage
VL10/VL11	Color	420	0.5/0*	12 VDC	PSW-5	Yes	4.3mm	No	1/3	Yes	N/A	No	Weatherproof
VL128RS	B/W	420	0.02	12MDC	Incl.	Yes	3.6mm	No	1/4"	Yes	N/A	No	Weatherproof
VL62/VL62W	Color-D/N	420	.92/0*	12 VDC	Incl.	Yes	3.6mm	No	1/4"	No	8/35'	No	Weatherproof

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Dome Camera Comparison Chart

Model	Color- B/W Day/Night	Resolution	Light Level (lux)	Voltage	Power Supply	Housing	Standard Lens	Optional Lenses	Special Features
CVC92PTZ	Color, Day/Night	480	0.15	24VAC/1AMP/Indoor 24VAC/3AMP/Outdoor	PSW-6	Many Options	18x Optical	No	Speed Dome - Slow Shutter
HT650PT10X	Color, Day/Night	540	0.5	12VDC	Included	Weather/Tamper ³	3.8-38mm Zoom	No	10X Motorized Optical Zoom & 10X Digital Zoom PTZ
HT650PTDZ	Color, Day/Night	540	0.5	12VDC	Included	Weather/Tamper ³	4-9mm Auto Iris	No	
HTINTD3	Color, Day/Night	580	.002	12VDC/24VAC Dual Voltage	PSW-4	Weather/Tamper ³	3-9mm	No	
HTINTD4	Color, Day/Night	580	.002	12VDC/24VAC Dual Voltage	PSW-4	Weather/Tamper ³	5-50mm Auto Iris	No	Intensifier Series, See color in complete darkness without IR LEDs
HTINTD8	Color, Day/Night	580	.002	12VDC/24VAC Dual Voltage	PSW-4	Weatherproof	2.8- 12mm	No	Intensifier Series, See color in complete darkness without IR LEDs
HTINTD9	Color, Day/Night	580	.002	12VDC/24VAC Dual Voltage	PSW-4	Weatherproof	5-50mm	No	Intensifier Series, See color in complete darkness without IR LEDs
HTINTD10	Color, Day/Night	580	.002	12VDC/24VAC Dual Voltage	PSW-4	Weatherproof	9-22mm	No	Intensifier Series, See color in complete darkness without IR LEDs
CVC385TP	B/W	420	0.02	12VDC	Included	Weather/Tamperproof	3.6mm	Yes	3-Camera Dome
CVC3805TP	B/W	420	0.02	12VDC	Included	Weather/Tamperproof	4-9mm VF AI	No	
CVC386TP3	B/W	420	0.02	12VDC	Included	Weather/Tamperproof	3.6mm	No	
CVC6146IHR	Color	550	0.3	12VDC/24VAC Dual Voltage	Included	Normal ³	2.8- 11mm	No	Intensifier Series, See color in complete darkness without IR LEDs
CVC6246IHR	Color, Day/Night	580	0.002	12VDC/24VAC Dual Voltage	Included	Normal ³	2.8-11mm VF AI	No	Intensifier Series, See color in complete darkness without IR LEDs
VL64TP ^w	Color	420	1	12VDC	Required	Indoor/Tamper	2.9mm	No	Test Connector
VL64DC ^w	Color	420	1	12VDC	PSW-5	Normal ³	2.9mm	No	
CVC645DC ^w	Color	420	.92	12VDC	Included	Normal ³	3.6mm	Yes	
HT647HRTP ^w	Color	540	0.5	12VDC	Included	Weather/Tamper ³	3.6mm	Yes	Intensifier, Miniature, Chameleon Cover
CVC646HR ^w	Color	550	0.5	12VDC	Included	Normal ³	3.6mm	Yes	Ultra High Resolution
CVC647TP ^w	Color	420	1.0	12VDC	Included	Weather/Tamperproof	3.6mm	Yes	High Resolution, Miniature, Chameleon Cover
CVC648IRHQ ^w	Color, Day/Night	540	0/0.5*	12VDC	Included	Normal/Wall Mount	3.6mm	Yes	IR LEDs, Special Design Eliminates IR Reflections
CVC648IRVFHQ	Color, Day/Night	540	0/0.5*	12VDC	Included	Normal/Wall Mount	4-9mm VF AI	No	IR LEDs, Special Design Eliminates IR Reflections
VL648IR ^w	Color, Day/Night	420	0/1*	12VDC	Included	Normal/Wall Mount	3.6mm	Yes	Wall Mounting bracket included
VL648IRVF ^w	Color, Day/Night	420	0/1*	12VDC	Included	Normal/Wall Mount	4-9mm VF AI	No	Wall Mounting bracket included
HTINT650 ^{w,s}	Color, Day/Night	580		12VDC	Included	Weatherproof	3-12mm	No	Intensifier Series
HT650IRVFHQ ^{w,s}	Color, Day/Night	540	0/5/0*	12VDC	Included	Weather/Tamper	3-12mm VF AI	Yes	22 IR LEDs/Anti-Reflective Technology
WDR650IRVFHQ ^{w,s}	Color, Day/Night	540		12VDC	Included	Weatherproof	3-12mm VF AI	Yes	Wide Dynamic Range/PIXIM
HT7246IHR	Color, Day/Night	540	0.03	12VDC/24VAC Dual Voltage	PSW4	Weather/Tamper ³ Wall/Ceiling	2.8-11mm VF AI	No	Intensifier Series, Joystick Controlled OSD
HT7247IHR	Color, Day/Night	540	0.03	12VDC/24VAC Dual Voltage	PSW4	Weather/Tamper ³ Wall/Ceiling	9-22mm VF AI	No	Intensifier Series, Joystick Controlled OSD
CVC6405	Color	420	.92	12VDC	Included	Normal ³	4-9mm VF AI	Yes	Test Connector
CVC7WMPDV	Color	480	.5	12VDC/24VAC	Included	Weather/Tamper	4-9mm VF AI	No	Flush or Surface mount
CVC8WMPDV	Color	580		12VDC/24VAC			2.8-11mm VF AI	No	Wall or Ceiling Mount
CVC183 ^w	B/W	400	0.2	12VDC	PSW-2	Normal ³	3.6mm	Yes	Economy-Wall/Ceiling Mount
CVC185	Color, Day/Night	420	0.02	12VDC	Included	Normal	3.6mm	Yes	
CVC1805DC	B/W	420	0.02	12VDC	Included	Normal	4-9mm VF	No	

* Day/Night dome cameras will display pictures in 0 lux when the IR LEDs are active.

^{w,s} Housings are also available in white and silver.

3- Axis mount for wall/ceiling use

What is CCTV?

Closed Circuit Television is a group of cameras, monitors and accessory equipment that work together as a system and are interconnected by various types of cables.

What is the Purpose of CCTV?

It is a tool used to protect people, property, enhance safety, and improve productivity.

Are CCTV Systems Complicated?

For the most part, today's modern equipment is self-adjusting and has a long trouble-free lifespan. Packaged cameras (such as a bullet camera) are self-contained units that include the lens, mounting bracket, housing and power supply in a single box. CCTV has become a "plug & play" market.

Types of CCTV Cameras:

All are available in B/W and Color as well as normal and low light configurations

Board Camera: Fully functional camera with a built-in lens on a Printed Circuit Board. These cameras are not in a housing. Useful for concealing and building into custom applications.

C/CS Cameras: Refers to conventional type camera bodies that require the separate purchase of all options including lens, mounting bracket, housing, power supply, and heater/blower.

Dome Cameras: Low profile, ceiling mounted self-contained camera package including lens, and power supply. Camera is adjustable within the housing for perfect aiming. Plug and play ease of installation.

EXview Camera: Any camera using the Sony EXview Hyper-HAD CCD for improved sensitivity and higher resolution.

Pinhole Camera: Bullet or Board camera using a special lens that allows it to see out of a small (1/16th of an inch) opening. Useful for discreet and hidden applications as well as when a large depth of field is required.

Varifocal Camera: A camera whose lens allows for the adjustment of the field of view. This camera can zoom in and out.

Waterproof Camera: Bullet camera that can be placed underwater or in extremely damp/wet conditions where a normal weatherproof camera might leak.

Common CCTV Terms:

Automatic Light Compensation (ALC):

The cameras built-in ability to compensate for changes in scene lighting

Aperture: The opening in a lens that allows available light to enter the camera.

Auto White Balance (AWB):

Circuitry in a color camera that allows it to yield perfect color pictures in different types of lighting.

Automatic Gain Control (AGC):

Circuitry in a camera that allows it to improve performance in low light conditions.

Automatic Iris Lens (AI): Type of lens where the aperture physically opens and closes to adjust the amount of light entering the camera. Available in "DC" and "Video" configurations to match your camera. Not required on cameras with electronic shutter systems.

Back Light Compensation (BLC):

Ability of a camera to balance the lighting in a scene with an extremely bright background such as sunlight.

Balun: An impedance matching device that allows you to send video signals over UTP

BNC: A type of video connector

C/CS Mount Lenses: Type of lens used on a standard CCTV camera

CRT: The picture tube in a monitor

CCD: The device in a camera that "takes" the picture and converts it to electrical signals.

Coaxial Cable: Normally RG-59U or RG-6 in CCTV systems. This cable should have a copper center conductor and 95% copper shield for best performance.

Day/Night Camera: A camera that displays color pictures in good lighting conditions, and automatically switches to B/W in low light conditions

Depth of Field: The portion of a video picture that is in focus.

Digital Video Recorder (DVR):

A device that compresses and records video signals onto built in Hard Disk Drives (HDD)

Field of View- Area covered by the camera.

Focal Length: The rated coverage of the lens in mm. Smaller numbers give a wider angle of coverage.

Format: The size of the CCD in a camera. Common sizes are 1/4", 1/3" and 1/2"

F-Stop: Measurement of how much light a lens will let in. The smaller the number the more light that can enter.

Format: The size of CCD in a camera. Common sizes are 1/4", 1/3" and 1/2"

F-Stop: Measurement of how much light a lens will let in. The smaller the number the more light that can enter.

Ground Loop: When the camera and monitor are powered from sources using different grounds with different ground potentials. If a path for current flow (other than the coax) exists

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