

HS Wall Mount Hybrid Digital Video Recorder with Looping Outputs and Real-Time Recording

D16WHS

Base Wall Mount Model

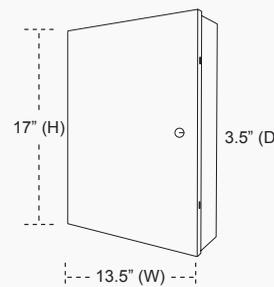
D16WHSM

Wall Mount with Built-In Monitor

Storage 2TB – 8TB (see last page for model numbers)



Patented Design



Features

EZ Wizards

- Camera: quickly discovers and installs IP cameras
- Setup: for quick system setup
- Network: network setup and portforwarding
- Record: quickly setup recording resolutions and recording type

EZ Search: quickly search events from thumbnails

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

- Video Out: 1 HDMI®, 1 VGA, 1 CVBS, 1 Spot
- A patented DVR solution that easily mounts in equipment closets or electrical rooms for covert installations
- Real-time recording rate at 30fps/channel for analog channels at 960H and IP channels at Full HD (1920x1080)
- Up to 5MP resolution on channel 1
- Plug & play feature with Speco's OnSIP/VIP/ZIP cameras
- ONVIF support*
- Dual network ports for isolating IP camera network and remote network traffic
- Each channel is configurable for either IP or analog
- H.264 video compression
- Networkable hybrid DVR with free Speco DDNS server
- Digital Deterrent® for triggering audio message via motion detection or sensor
- 2-way audio communication
- Programmable recording on motion detection, sensor, schedule, continuous and manual
- Supports wireless access point for viewing and configuration

- Built-in S.M.A.R.T. Technology (Self-Monitoring, Analysis and Reporting Technology for HDD)
- Switch between low and high quality stream during simultaneous Continuous + Motion or Continuous + Sensor recording modes for storage optimization
- Easy firmware upgrade by USB port or network
- User Access: up to 4 concurrent users
- Remote monitoring / recording / playback / configuration / software upgrades and PTZ control via internet
- Network software supports Static IP, DHCP and DDNS
- Network accessible via SpecoTech Multi-Client Software, SecureGuard™ Plus CMS, Internet Explorer Web-Viewer and Speco Player Mobile Viewer
- PC and MAC® compatible
- IR remote control & mouse included
- Rack mountable (hardware included)
- 3 year warranty

Optional Accessories



IRRPTKIT
IR Repeater Kit



DSWFUSB
USB Wireless
Access Point



POE8SW9
8 PoE Port 10/100
802.3af/ at Switches



POE16SW18
16 PoE Port 10/100
802.3af/ at Switches

Free Apps with support for view on most smart devices. *Visit www.specotech.com/onvif.html for latest ONVIF support. iPhone is a trademark of Apple Inc., registered in the U.S. and other countries. Android is a trademark of Google Inc. The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries. Speco Technologies is constantly developing and improving products. We reserve the right to modify product design and specifications without notice and without incurring any obligation. Rev. 7/31/15





Technical Specifications:

HS Wall Mount Hybrid Digital Video Recorder with Looping Outputs and Real-Time Recording

Model			WHS / WHSM		
Video	Input	IP Channels	Up to 16		
		Analog Channels	Up to 16		
	Output	HDMI®	1 HDMI (1280x720 / 1920x1080)		
		VGA	1 VGA (1280x720 / 1920x1080)		
		CVBS	1 main		
		SPOT	1 (Analog channels only)		
Loopouts	16 (Analog channels only)				
Audio	Input		16 line input, 16 IP input		
	Output	Local Output (RCA)	1	1	
	Audio Codec		G.711		
Alarm	Sensor Input	Local Input	4	4	
		Remote Input from IP Camera	8	16	
	Alarm Output		1	1	
Serial	RS-232C	Debugging Only	1		
	RS-485	PTZ	1		
Recording	Compression		H.264 (baseline, main, high profile)		
	Resolution	IP	2592x1944 (5MP)	Channel 1 only	
			1920x1080 (1080p)	480fps	
			1280x720 (720p)	480fps	
		Analog	960H	480fps	
			D1	480fps	
			CIF	480fps	
	Recording Quality Grade (Analog Only)		5 levels		
	Recording Mode		Continuous / Motion / Sensor / Schedule / Manual / Continuous + Sensor / Continuous + Motion		
	Pre-Recording		Max. 20 minutes		
Post Recording		Max. 60 seconds			
Playback	Search		EZ Search, Date/Time, Event, Archive, Log		
	Multi-Decoding		1, 4, 9, 16		
	Playback Speed		x0.25, x0.5, x2, x4, x8, x16, x32, x64		
Backup	Media		USB Drive, External HDD, Network		
	Format		BMP, AVI, Proprietary Format		
	Large Backup		Yes (max. 24 hours)		
Storage	HDD	Capacity of 1 HDD	4TB		
		Internal HDDs	2		
		e-SATA	1		
	USB		2 front, 1 rear		
User I/F	Menu Display		GUI		
	Input Method		IR, Mouse, Keyboard Controller		
Network	Interface		Dual Network Ports 10/100/1000Base-T		
	Streaming	IP Channel	Depends on profile		
		Analog Channel	CIF @ 30fps/channel		
	Dual Encoding for Network		Yes		
	Max. Throughput		40Mbps		
Network Access	Mobile Viewer		Speco Player (Live, Search, PTZ, 2-Way Audio)		
	PC Web Viewer		IE, Chrome, Firefox, Safari (Live, Search, Backup, PTZ, Remote Setup)		
	PC Client		SpecoTech Multi-Client Viewer and SecureGuard® CMS		
Features	Digital Deterrent®		Default + up to 8 audio files		
	Digital Zoom		Yes		
	DLS (Daylight Savings)		Yes		
	EZ Record		Yes		
	S.M.A.R.T		Yes		
	Internal Beep		Yes		
	Multi-Language		Yes		
	Dynamic DNS		Yes (free Speco DDNS)		
	SW Upgrade		USB and remote software upgrade		
	E-mail Notification		Yes		
NTP (Network Time Protocol)		Yes			
Power Source	Power Supply Voltage		12VDC, 5A		
Allowable Operating Temperature / Humidity			41° F - 104° F / 20% - 80% RH (non-condensing)		
Allowable Storage Temperature			14° F - 122° F		
Weight	Unit Weight (Gross Weight)		Approx. 17 lbs.		
Dimensions	Unit Dimensions (W x H x D)		13.5" (W) x 17" (H) x 3.5" (D)		

Please note that specifications and unit exterior design are subject to change without notification.

WHS					
		CH.	HDD	Base Model	Built-In Monitor
16	2TB	D16WHS2TB	D16WHSM2TB		
	3TB	D16WHS3TB	D16WHSM3TB		
	4TB	D16WHS4TB	D16WHSM4TB		
	6TB	D16WHS6TB	D16WHSM6TB		
	8TB	D16WHS8TB	D16WHSM8TB		