

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

### D16WHS

Base Wall Mount Model

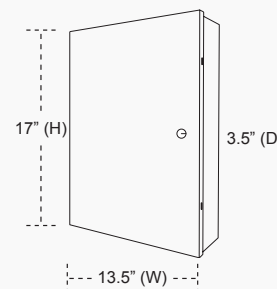
### D16WHSM

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

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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.

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