

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

### D8WHS, D16WHS

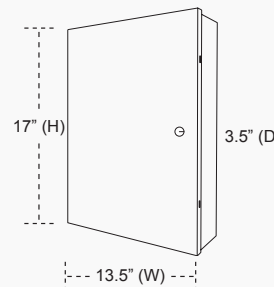
Base Wall Mount Model

### D8WHSM, D16WHSM

Wall Mount with Built-In Monitor



Patented Design



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

## 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 IP cameras
- Conformant with ONVIF profile S
- 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 SecureGuard® and SecureGuard® Mobile
- PC and MAC® compatible
- IR remote control & mouse included
- Rack mountable (hardware included)
- 5 year warranty<sup>1</sup>

### 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



<sup>1</sup>Effective on all new purchases as of 2/1/17. Hard drives excluded. Visit [www.specotech.com/onvif.html](http://www.specotech.com/onvif.html) for latest ONVIF support. ONVIF is a trademark of Onvif Inc. 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. 3/6/17





**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 8	Up to 16	
		Analog Channels	Up to 8	Up to 16	
	Output	HDMI®	1 HDMI (1280x720 / 1920x1080)		
		VGA	1 VGA (1280x720 / 1920x1080)		
		CVBS	1 main		
		SPOT	1 (Analog channels only)		
Loopouts	8 (Analog channels only)	16 (Analog channels only)			
Audio	Input		8 line input, 16 IP 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)	240fps	480fps
			1280x720 (720p)	240fps	480fps
		Analog	960H	240fps	480fps
			D1	240fps	480fps
			CIF	240fps	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, 8	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® VMS		
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>			
CH.	HDD	Base Model	Built-In Monitor
<b>8</b>	<b>2TB</b>	D8WHS2TB	D8WHSM2TB
	<b>3TB</b>	D8WHS3TB	D8WHSM3TB
	<b>4TB</b>	D8WHS4TB	D8WHSM4TB
	<b>6TB</b>	D8WHS6TB	D8WHSM6TB
	<b>8TB</b>	D8WHS8TB	D8WHSM8TB
<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