speco technologies®

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

D16WHS

Base Wall Mount Model

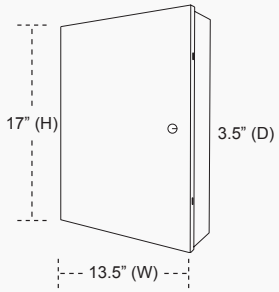
D16WHSM

Wall Mount with Built-In Monitor

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

IP | 960H | HYBRID | DIGITAL DETERRENT | 2-WAY AUDIO | EZ SEARCH | EZ WIZARDS | S.M.A.R.T.

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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Available on the App Store | ANDROID APP ON Google play | ONVIF | HDMI

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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