

**HYBRID**

# HT Full Hybrid HD-TVI Wall Mount Recorder with Looping Outputs and Real-Time Recording

- D8WHT** 8 Channel IP, HD-TVI & Analog Full Hybrid Recorder
- D16WHT** 16 Channel IP, HD-TVI & Analog Full Hybrid Recorder
- D8WHTM** 8 Channel IP, HD-TVI & Analog Full Hybrid Recorder with Built-in Monitor
- D16WHTM** 16 Channel IP, HD-TVI & Analog Full Hybrid Recorder with Built-in Monitor



**STORAGE 1TB - 12TB**  
see last page for configurations

## Features

### EZ Wizards - For ease of use and setup

Camera: quickly discover and install all Speco IP cameras

Setup: for quick setup of general settings

Network: network setup and port forwarding

Record: quickly setup recording resolutions and recording type

Search: quickly search for events from thumbnails

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

- Video Out: 1 HDMI®, 1 VGA, 1 CVBS / Spot
- 2MP support for HD-TVI
- A patented hybrid DVR solution that easily mounts in equipment closets or electrical rooms for covert installations
- Real-time recording rate at 30fps/channel on IP / HD-TVI / Analog
- Up to 5MP IP camera resolution on all channels
- 1080p@30fps on HD-TVI channels
- Plug & play feature with Speco's OnSIP/VIP/ZIP cameras
- Each channel is configurable for either IP / HD-TVI / analog
- Dual network ports for isolating IP camera network and remote network traffic
- Instant playback allows for playback of 1 channel while the rest stays in Live mode
- Smart (Museum) Search - Quickly search for a specific video event without the need for motion setup.
- H.264 video compression
- Networkable full hybrid DVR with free Speco DDNS server
- Backwards compatible with all analog cameras
- UTC function allows for zoom/focus and OSD control over coax
- Signal distance up to 1600 feet<sup>1</sup>
- Digital Deterrent® for triggering audio message via motion detection or sensor
- Cloud upload for events via Google Drive
- Mass alert notification via Twitter



- 2-way audio communication via local and IP camera audio service
- Programmable recording on motion detection, sensor, schedule, continuous and manual
- Supports wireless access point for viewing and configuration
- HTTPS – support for third party SSL certificates.
- Built-in S.M.A.R.T. Technology (Self-Monitoring, Analysis and Reporting Technology for HDD)
- Switch between low and high quality stream for IP cameras during simultaneous Continuous + Motion or Continuous + Sensor recording modes for storage optimization
- Easy firmware upgrade by USB port or network
- User Access: up to 12 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® VMS, Internet Explorer Web-Viewer and Speco Player Mobile Viewer
- PC and MAC® compatible
- IR remote control & mouse included
- Rack mountable (hardware included)
- 5 year warranty<sup>2</sup>

### Optional Accessories



<sup>1</sup>To preserve signal quality and distance, Speco Technologies recommends using coax with a 100% copper center conductor and at least 95% braided copper shield. <sup>2</sup>Effective on all new purchases as of 2/1/17. Hard drives excluded. 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.

Spec Rev. 7/24/17



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Model		D8HT	D16HT		
Video	Input	IP Channels	Up to 8	Up to 16	
		HD-TVI / Analog Channels	Up to 8	Up to 16	
	Output	HDMI@	1 HDMI (1280x720 / 1920x1080 / 1600x1200)		
		VGA	1 VGA (1280x720 / 1920x1080 / 1600x1200)		
		CVBS / SPOT	1		
	Loopouts	8 (HD-TVI and Analog channels only)	16 (HD-TVI and Analog channels only)		
Audio	Input		8 line input, 8 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	
	RS-485	PTZ	1		
Recording	Compression		H.264 (baseline, main, high profile)		
	Resolution	IP	2592x1944 (5MP)	240fps	480fps
			2098 x 1536 (3MP)	240fps	480fps
			1920 x 1080 (2MP)	240fps	480fps
			1280x720 (720p)	240fps	480fps
		HD-TVI	1920 x 1080 (1080p)	240fps	480fps
			1280 x 720 (720p)	240fps	480fps
	Analog	960H	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, Smart Search		
	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 (NSP)		
	Large Backup		Yes (max. 24 hours)		
Storage	HDD	Capacity of 1 HDD	4TB		
		Internal HDDs	3		
		e-SATA	1		
	USB		2 front, 1 rear		
User I/F	Menu Display		GUI		
	Input Method		Front Buttons, IR, Mouse, Keyboard Controller		
Network	Interface		Dual Network Ports 10/100/1000Base-T		
	Streaming	IP Channel	Depends on profile		
		HD-TVI and Analog Channel	640 x 360, 320x 180 @ 30fps/channel		
	Dual Encoding for Network		Yes		
Max. Throughput		48Mbps			
Network Access	Mobile Viewer		SecureGuard® Mobile, Speco Player		
	PC Web Viewer		IE, Chrome, Firefox, Safari (Live, Search, Backup, PTZ, Remote Setup)		
	PC Client		SecureGuard®		
Features	Digital Deterrent®		Default + up to 8 audio files		
	Digital Zoom		Yes		
	DLS (Daylight Savings)		Yes		
	EZ Search, Smart Search		Yes		
	S.M.A.R.T		Yes		
	Cloud Backup on Event		Yes		
	Multi-Language		Yes		
	Dynamic DNS		Yes (free Speco DDNS)		
	SW Upgrade		USB and remote software upgrade		
	E-mail Notification / Twitter		Yes		
NTP (Network Time Protocol)		Yes			
Power Source	Power Supply Voltage		12VDC, 5A	12VDC, 6.67A	
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)		16 lbs.		
Dimensions	Unit Dimensions (W x H x D)		16" (W) x 19" (H) x 3.5" (D)		

Please note that specifications and unit exterior design are subject to change without notification. Rev. 7/24/17



## WHT

Ch.	HDD	Base Model	Built-in Monitor
8	1TB	D8WHT1TB	D8WHTM1TB
	2TB	D8WHT2TB	D8WHTM2TB
	3TB	D8WHT3TB	D8WHTM3TB
	4TB	D8WHT4TB	D8WHTM4TB
	6TB	D8WHT6TB	D8WHTM6TB
	8TB	D8WHT8TB	D8WHTM8TB
	9TB	D8WHT9TB	D8WHTM9TB
	12TB	D8WHT12TB	D8WHTM12TB
16	1TB	D16WHT1TB	D16WHTM1TB
	2TB	D16WHT2TB	D16WHTM2TB
	3TB	D16WHT3TB	D16WHTM3TB
	4TB	D16WHT4TB	D16WHTM4TB
	6TB	D16WHT6TB	D16WHTM6TB
	8TB	D16WHT8TB	D16WHTM8TB
	9TB	D16WHT9TB	D16WHTM9TB
	12TB	D16WHT12TB	D16WHTM12TB