# speco technologies®

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

| IP | HD TVI | HYBRID | EZ WIZARDS | S.M.A.R.T | 2-WAY AUDIO | | |

**D8WHT**    8 Channel IP, HD-TVI & Analog Full Hybrid Wall Mount Video Recorder

**D8WHTM**    8 Channel IP, HD-TVI & Analog Full Hybrid Wall Mount Video Recorder with Built-in Monitor

**D16HT**    16 Channel IP, HD-TVI & Analog Full Hybrid Wall Mount Video Recorder

**D16WHTM**    16 Channel IP, HD-TVI & Analog Full Hybrid Wall Mount Video Recorder with Built-in Monitor

| **Storage** | **1TB – 12TB** (see last page for model numbers) |

19" H    3.5" D    16" W

WHT, WHTM
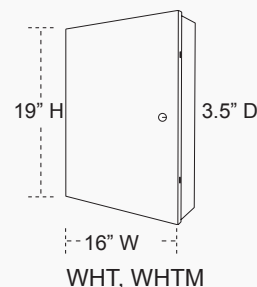
## Features

**EZ Wizards**
- Camera: quickly discovers and installs IP cameras
- Setup: for quick system setup
- Network: network setup and port forwarding
- 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 / Spot
- 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
- HD-TVI signal distance up to 1600 feet[1]

- 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 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[2]

### Optional Accessories

| **IRRPTKIT** IR Repeater Kit | **DSWFUSB** USB Wireless Access Point | **POE4SW6** 4 PoE Port 10/100 802.3af/ at Switches | **POE8SW9** 8 PoE Port 10/100 802.3af/ at Switches | **POE16SW18** 16 PoE Port 10/100 802.3af/ at Switches |

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

| 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 | |
| | 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.

| 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 |