



SM-PRO-16 Channel DVR Technical Specifications



Notable Features:

- Several different recording resolution options: **D1 resolution**(704X480) Resolution on all 16 channels at 7fps or less (adjustable frame rate) per channel, 112fps for the whole unit – **CIF Resolution** (352x240) on all 16 channels at 30 fps or less (adjustable), 480 fps for the whole unit – Channel 1 & 9 can be set to record at **D1 resolution** at 30FPS or less (adjustable) while the remaining channels would be set to **CIF resolution** at 30 FPS per channel or less (adjustable). Each channel also has fully adjustable bit rate quality settings that range from 32-2048 Kb/s
- Fully adjustable recording settings. Record continuously, on a schedule, alarm based, or on motion detection.
- State of the art Mouse Driven PTZ controls. Several different PTZ protocols to choose from.
- Setup the DVR for the internet and view your cameras from any computer in the world. You can also view your cameras over your smart phone. Currently supported phone types are: Iphone and Android
- Send email alerts of a captured image based on motion detection or alarm triggers.
- Control the DVR from 4 different methods. 1)Front keypad 2) Mouse 3) Remote Control, or 4) from the Remote Web Viewer
- Included CMS software allows you to view and connect several DVR's to one centralized computer.
- Supports 1 hard-drive (up to 2TB max)
- BNC, VGA, and HDMI outputs (VGA and HDMI output has high resolution menu screens)

- Dual encoding streams supported – optional lesser video stream to make for quicker viewing over the internet for remote viewing and cell phone viewing.
- H.264 Video Compression
- 4 Channel Audio Recording
- Easily back up recordings to a USB flash drive or through the network remote viewer

| System | |
|------------------------------------|---|
| Operating System | Embedded LINUX |
| Control Methods | Front Panel, USB Mouse, IR Remote Control, Network |
| Video | |
| Video Input | 16 Channel, BNC(1.0Vp-p, 75 ohms) |
| Video Output | 1 BNC (1.0Vp-p, 75 ohms), 1 VGA, 1 HDMI |
| Video Output Signal Standard | NTSC |
| Available Video Displays | Single Cam Full Screen, Quad View, Sequential Full Screen Switching, 2 Types of 8 camera view options (#1 All 8 squares the same size or #2 1 large square and remaining 7 squares small) |
| Live Video Resolution | D1 (4CIF) 704x480 |
| On Screen Displays | Camera Title, time, video loss, camera lock, motion detection, recording |
| Video Compression | H.264 |
| Audio | |
| Audio Input | 4 Channel, BNC(200-2000mv, 10k ohms) - Channel 1 can be used for bidirectional talk input for remote viewing use |
| Output | 1 channel, BNC(200-3000mv, 5k ohms) |
| Audio Compression | G.711A |
| Hard Drive | |
| Hard Drive | Supports 1 Hard Drive (Sata Connection) up to 2 TB |
| Recording, Playback, and BackUp | |
| Recording Modes | Continuous, Schedule, Motion Detection, Alarm |
| Bit Rate Image Quality | Fully adjustable per channel 32-2048 Kb/s |
| Playback | 16 Channel Simultaneous Playback |
| Search Modes | Time/Date Calendar, Search motion only recordings, exact search (accurate to second) |
| BackUp Methods | USB Flash Drive, USB HDD, USB CD/DVD RW, Network Download |
| Playback Modes | Play, Pause, Stop, Rewind, Fast Play, Slow Play, Next File, Previous File, Full Screen, Digital Zoom |
| Recording Quality | D1, CIF, QCIF |
| Recording Quality Frame Rate Modes | 3 Options: 1) All Channels D1 1-7fps per channel 2) All Channels CIF 1-30fps per channel 3) Channel 1&9 D1 1-30fps, Remaining 14 channels CIF 1-30fps |
| Network | |
| Interface | RJ-45 Port (10/100M) |
| Network Functions | TCP/IP, UDP, DHCP, DNS, IP Filter, PPPOE, DDNS, FTP, Email |

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|---------------------|--|
| Remote Operation | Monitor, Playback, System Settings, File Downloads, Log Information |
| Other Information | |
| USB Interface | 2 Ports, 1 for mouse control, 1 for BackUp |
| Alarm Input | 16 inputs (choose whether they will be Normally Open or Normally Closed from DVR Menu) |
| Alarm Output | 3 relay outputs |
| Alarm Relay | 30V DC 2A, 125 VAC 1A (Activation Alarm) |
| RS-485 | For PTZ Controls (DVR Supports Various PTZ Protocols including Pelco D & P) |
| RS-232 | For Keyboard/ATM/POS Text Overlay Function |
| Environmental | |
| Power Supply | DVR input is 12V DC 3.3Amps - Adapter Input is AC 100-240V, 50/60Hz |
| Power Consumption | 25W |
| Working Temperature | 14-131 degrees fahrenheit |
| Atmosphere Pressure | 86kps-106kps |
| Dimension | 15"x11"x2" |
| Weight | 4.4 lbs (without Hard-Drive) |



Video:

- 16 BNC Camera Inputs
- 1 BNC Output
- 1 HDMI Output
- 1 VGA Output

Audio:

- 4 BNC Input
- 1 BNC Output

Alarm:

- 16 Input
- 3 Relay Output

Other:

- (1)RS-485 for PTZ control
- (1) RS-232 for ATM/POS/Keyboard Functions
- (2) USB Ports for Mouse and USB Backup
- (1) RJ45 Network Port

Package Contents:

- (1) DVR Unit
- (1) Network Cable
- (1) USB Mouse
- (1) Remote Control
- (1) Power Supply
- (1) Sata Hard-Drive Connector (These will already be installed if DVR comes included with Hard-Drive)
- (1) Installers Handbook, manuals and software on included Flash Drive

Warranty Information