

PRODUCT SPECIFICATION

Ultimate Series H.264 Digital Video Recorder

PENTAPLEX, D1 REAL-TIME, JOG/SHUTTLE, FEATURE-RICH, EASE OF USE

Product Features

- H.264 Hardware Compression
- Up to 16 Video Inputs, 16 Audio Inputs
- Pentaplex
- 4CIF (D1) Real-Time Recording
- Up to 480 Frames per Second
- Jog/Shuttle
- Ease of Use
- RAID 1
- VOIP
- USB Drive Support
- Complete Remote Access
- Up to 8 Terabytes Internal Storage
- Dynamic PTZ Control
- Channel Independent Configuration
- VGA Output Included



The Ultimate Series digital video recorder is the ultimate in digital surveillance technology. The DVR's very high performance, feature-rich, and ease of use functionality combine to create one of the best standalone systems on the market today.

The Ultimate Series can record real-time video and audio at an amazing 4CIF resolution on every channel. That's 4 times the resolution of standard CIF resolution. At least 2CIF is required to take full advantage of today's high resolution cameras.

This DVR is so easy to use. Simply plug it in and it begins recording. Mouse control provides very simple point-and-click settings and control. In addition, the unit also includes an IR remote. Use the jog shuttle control to easily fast forward, rewind, and advanced frame-by-frame. Up to 2 independent channels can be played back simultaneously, even at different time intervals. 4 channel simultaneous playback can be done via the web interface or client software. Remote viewing, playback, configuration, upgrade, reboot, and backup are all standard on the Ultimate Series.

The embedded web server enables users to perform all these remote function via an Internet Explorer web browser, eliminating the need to install software. Client software is also included for central monitoring and alerts for multiple Ultimate Series units. Dual streaming configurations are also a standard feature allowing high resolution recording on the unit locally, while lower bit rates and resolution are used for remote viewing, conserving network bandwidth and increasing remote viewing quality and performance. Two way audio is also standard on the Ultimate Series.

There are too many features to list, but some of the following include: 10 simultaneous network users, RAID storage, FTP record/backup, email alerts, DDNS support, 3D intelligent PTZ control, power failure auto-recovery, DVD-RW backup, user management and much more.

Latest generation digital surveillance technology utilizes a Linux embedded OS, embedded web server, and DSPs to bring you the most powerful network-based digital video recorder available.

TECHNICAL SPECIFICATIONS

MODELS

SCK-ULTIMATE-4	Standard 4 Ch Unit
SCK-ULTIMATE-8	Standard 8 Ch Unit
SCK-ULTIMATE-16	Standard 16 Ch Unit

GENERAL

Video Inputs	4, 8, 16 inputs, 1.0Vp-p, 75ohm unbalanced
Video Outputs	1 Main Monitor 1 Spot Monitor (not available on 4ch) 1 VGA
Audio Inputs	4,8,16 audio inputs (200-2800mV, 30Kohm)
Audio Outputs	1 audio output (200-3000mV, 5Kohm)
Voice Interface	1 (200-2800mV, 30Kohm)
Audio Compression	G.711, 64kpbs ADPCM (VOIP standard)
Video Compression	H.264
Preview Resolution	NTSC: 704 x 480 (4CIF)
Compression Resolution	NTSC: 704 x 480 (4CIF) NTSC: 704 x 240 (2CIF)
Color	16.7 Million
Stream Type	Video or Video/Audio
Bit Rate	56kpbs ~ 2Mbps (user-defined), variable
Recording Frame Rate	4CIF Resolution: 30 frames/sec/channel 4CIF Resolution: 7.5 frames/sec/channel
Record Quality	Highest, Higher, High, Average, Low, Lower, Lowest
Record Mode	Schedule, Motion, Alarm (simultaneous or combination)
Playback Mode	Date/Time Search or Event Search
Operation Mode	Pentaplex (simultaneous monitor, record, playback, network and backup)
Motion Detect	Area Division: 22 x 15, on/off selectable Motion Detect and Relay On Simultaneous
Privacy Masking Alerts	Yes
View Tampering Alerts	Yes
Network Function	Internet Explorer and Client Software
Alarm	8 & 16ch: 16 Alarm Inputs / 6 Relay Outputs 4ch: 4 Alarm Inputs / 3 Relay Outputs
Backup	DVD-RW / USB / Network
RS 485	Keyboard Controller/PTZ
HDD Interface	4 SATA: Internal bracket supports 1 DVD-RW plus 3 HDD or 4 HDD
HDD Management	Hibernation, HDD fault alarm, RAID (redundancy)
VGA Interface	1, Supports 800x600/60Hz, 800x600/75Hz, 1024x768/60Hz

MECHANICAL

Video Inputs	BNC female
Video Output	BNC female
Monitor Output	BNC female
Audio Inputs	RCA female
Audio Output	RCA female
Alarm Inputs	Screw Terminals
Alarm Outputs	Screw Terminals
RS485	Screw Terminals
Network	RJ45 10M/100M UTP
VGA	9-pin D-sub female
RS-232	RJ45
USB	USB 2.0 Type A port
IR Remote Controller	Standard, Addressable
Voice Interface	RCA female

ELECTRICAL

Power Requirements	110V 60Hz, 220V 50Hz
Power Consumption	22W ~ 42W (without HDD)

ENVIRONMENTAL

Operating Temperature	32° to 131°F (0° to 55°C)
Operating Humidity	10-90% RH Max

PHYSICAL

Dimensions	19in. 2U 440(W) x 89(H) x 460(D)mm
Weight	20lbs approx. (without HDD)
Shipping Weight	23 lbs approx.



Features

IR Vandal Proof Dome Camera
Sony Color CCD
23 IR LEDs, IR Distance 50ft
Auto White Balance
3.6mm Lens

Pick Up Element	Sony 1/3" CCD
Effective Picture Elements	NTSC 811 x 508
Horizontal Resolution	520 TVL
S/N Ratio	More than 48dB
Clock Frequency	NTSC 28.636MHZ
Scanning System	2:1 Interlaced
Minimum Illumination	0 Lux with IR On
Synchronous System	Internal, Negative sync
Auto Electronic Shutter	NTSC 1/60 - 1/100.000 Seconds
Gamma	0.45
IR Working Distance	50ft
IR Status	Under 10 Lux by CDS
IR Power On	CDS Auto Control
Video Output	1Vpp, 75Ω
Gain Control	Auto
Power / Current	12VDC ±10% / 300mA
Lens	3.6mm
Dimension	3.7 x 2.7 inches
Weight	15.9oz
Storage Temperature	minus 22°F - 140°F
Operating Temperature	14°F - 113°F