

### 16 Channel IP, 16 Channel Analog Hybrid Digital Recorder




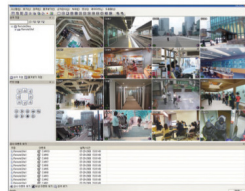
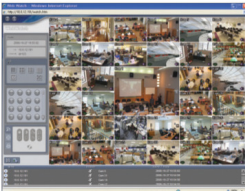
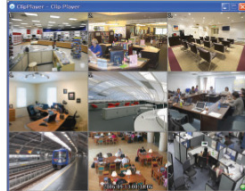
Costar Digital Video XDH Hybrid Series recorders offer the latest in H.264 hardware compression technology using the latest proprietary ISP1000 chip set. The first encoder chip developed exclusively for security digital video recording which assures the highest level of video quality with the smallest possible file sizes. The XDH Recorder allows for viewing and recording both analog and IP cameras on the same platform. User viewing over IP networks allows central control of any number of cameras as well as multi-user viewing and monitoring. Easy installation and operation allows this DVR to integrate quickly and seamlessly into an existing CCTV system.

- 16 channel analog inputs  
16 channel IP inputs  
(up to 2 mega pixel resolution)
- Full HD live view resolution
- H.264 codec compression
- eSATA external storage support
- Internal HDD Disk mirroring
- External HDD Drive support via eSATA or iSCSI through dedicated gigabit network port.
- Two-way audio communication
- Images pre second recording:  
480 ips @ CIF (352x240 resolution)
- 4-channel audio recording  
1-channel audio playback
- 4x Digital Zoom on playback
- Two USB 2.0 ports
- HDMI, BNC and VGA video monitor outputs
- Text Interface for up to 16 inputs using RS485, RS232 and TCP/IP
- 64 user group programming  
256 individual user programming
- Video Motion Detection (VMD)  
Video Obscuration Detection (VOD)
- Time-lapse, alarm, pre-event, panic and continuous recording modes
- Programmable record options -  
Schedule, Record Rate, Image Quality
- Up to 60 sec. pre-event recording  
Up to 30 sec. post-event recording
- Remote Access System (RAS+) software supports Static-IP, ADSL, DHCP, Dynamic-IP DVRNS (Enhanced DDNS)
- PTZ camera control – more than 50 specific protocols including Pelco D, Spectra, and StarDome Fastrax II
- Network Time Sync - master server or slave
- 10 Simultaneous network viewing,  
2 administrators and 2 search connections
- Web-enabled remote access via Internet



Model	Channels
CR1600XDH	32 Channel Hybrid; 16 IP Channels and 16 Analog Channels

Power	
Power Source	100-240V AC
Input / Output	
IP Inputs	16
Video Inputs	16
Audio In / Audio Out	4 RCA In / 1 RCA Out
PTZ Dome Control	RS485
Monitor Output	Composite, VGA, HDMI
Spot Monitor Output	1 BNC
Alarm Input	16 TTL (NO/NC)
Alarm Output	4 Relay
Auxiliary In	RS232, RS485, 2 USB 2.0
User Interface	Keyboard controller, mouse, remote
Recording and Playback	
Compression	H.264
Record Rate	480 ips @ CIF Analog 70 ips @ 2MP 110 ips @ 1MP 110 ips @ 4CIF
Record Resolution	720x480 740x240 352x240 (Analog)
USB Port	2 USB connectors
Serial Interface	RS485, RS232
Advanced Features	4X zoom, clip copy, motion detection
Storage	
Recording	Internal SATA HDD External SATA HDD
Archiving	USB Flash Drive, USB HDD, eSATA, iSCSI
Network	
Connection	Ethernet
Protocols	DHCP, DVRNS, ACL, Manual
Remote Software	RASplus, Webguard, Internet Explorer, MAC Watch, MAC Search
Remote Connections (simultaneous)	10 Watch connections 2 Search connections 2 Admin connections

System	
Operating System	Embedded Linux
Data Export	USB Flash Drive, USB HDD
Disk Management	Temperature check, S.M.A.R.T. diagnosis, auto-recovery
General Operating	
Operating Temperature	41°F to 104°F (5°C to 40°C)
Approvals	FCC, CE, UL, CB, KCC, KC, PSE
Dimensions	430 x 88 x 400 mm
	
<b>iNEX</b> Connect to the future with Legacy connection from DVRs, and IP servers (available Q4, 2010)	
	
<b>RASplus</b> Remote software providing 64 cameras live/playback, event monitoring, local recording, E-map, and device management	
	
<b>Webguard</b> Web based remote monitoring software which can be downloaded from web browsers in ActiveX format	
	
<b>Clip-Player</b> Self extractable video player containing not-alterable recorded data from its digital recorder, no need for special codec's or players	

**Costar**  
VIDEO SYSTEMS

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Specifications and design are subject to change without notice. Conversions: 1" = 25.4mm Measurement conversions are approximate.