



**High Definition, 1280x720
by Coaxial Cable**
**4ch Real-Time
Display & Recording**
PC based DVR

HD-CCTV captures HD (High-Definition) images with 1280x720 in real time at 30fps. It allows end-users to easily recognize license plate and also model name of the car, or to identify intruders with clear-cut images. HD-CCTV is applied to HD-SDI transmission in order to transmit HD images at 30fps up to 200M via Coaxial Cable (another 200m with Repeater, RX-250). HD video capture cards, **HDCAP 30/60/120(1ch/2ch/4ch)** are designed with a PCI Express interface and record higher frame rate with no image quality loss in 1, 2 and 4 channels.

Pillar-HD Hybrid Surveillance software is the world first integration solution with Digital(1ch/2ch/4ch) + Analog(16ch) combo, and displays & records both Digital and Analog video simultaneously.

HD-CCTV solution gives you clearer stored image and more obvious evidence than other formats.

HD-CCTV

HD-CCTV Camera



- . 1/3" EX-View Sony Progressive Color CCD
- . Various Digital output are supported
- . NTSC : 22.5fps(1280x960)/30fps(1280x720)
- . PAL : 25fps(1280x720)
- . Digital Video Transmission (Serial Data Interface : BNC Type)
- . Min. illumination : 1.0lux without DSS (0.1lux with Digital Slow Shutter, Max. 32)

HDCAP 30V/60V/120V

HD Video Capture Board



- . PCI Express Interface (2.5GB/s)
- . Video Input : 1ch/2ch/4ch Respectively
- . Display & Recording : NTSC : 60/120fps(1280x720) Respectively
- . PAL : 50/100fps(1280x720) Respectively
- . Resolution : NTSC(1280x720/1280x960) PAL(1280x720)
- . Provide SDK for Software Developers

Pillar-HD

Megapixel Hybrid Software



- . Screen Rotation
- . Panorama Function
- . Change Division Mode
- . Digital Live Zoom
- . Recording
- . Live Display from Main Server
- . Search CMS and Main Server
- . Control Main Application Setup from CMS
- . Lock / Unlock
- . Backup Data
- . Move Page
- . E-MAP
- . Smart Search / POS

HD-SDI Accessories

Receiver/ Repeater/ Encoder/ Decoder/ Multi Signal Converter



HD-SDI Receiver (SDI to DVI)



HD-SDI Repeater (1:2)



HD-SDI Repeater (1:8)



Digital Video Encoder (H.264, 1920x1080) + Character Generator



Digital Video Decoder (H.264, 1920x1080) + HDMI to SDI Converter



Multi Signal Converter (SDI to RGB/TV/HDMI)

HD-CCTV

FULL HD CCTV CAMERA with Coaxial Cable

HD CCTV Camera : 1.3M

1.3M HD CCTV CAMERA

HDC-SD200AV / HDC-DV120AV / HDC-IR90AV



HDC-SD200AV



HDC-IR90AV



HDC-DV120AV

Feature

- . 1/3" EX-View SONY Progressive Color CCD
- . 30fps(1280x720) or 22.5fps(1280x960) Digital Output
- . Compatible with high zoom lens by applying C/CS mount
- . No video loss while A/D & D/A
- . Easy operation (OSD)
- . HD-SDI- (Serial Data Interface - BNC type)
- . 0.1 lux with Digital Slow Shutter, DSS (Max 32)
- . Easy installation (using conventional CCTV cable – Coaxial Cable)

Specification

SECTION	HDC-SD200AV / HDC-DV120AV / HDC-IR90AV
Image Sensor	1/3" progressive scan CCD, 1.3 Mega pixel
Total Pixel	1348(H) x 976(V) 1.32 Mega pixel
Effective Pixels	1296(H) x 966(V) 1.25 Mega pixel
Scanning System	Progressive Scan
Sync System	Internal
Horizontal Resolution	More than 600 TVL
S/N Ratio	More than 50dB
Min, Illumination	1.0 lux (F1.2, 30IRE, AGC On, 0.1x DSS On)
Video Mode	Select Switch for 1280x960, 22.5fps 1280x720, 30fps in NTSC mode Fixed 1280x720, 25fps in PAL mode
DSS	support OSD
MIRIS	support OSD
Video Out 1	HD-SDI (BNC Type)
Video Out 2	Composite 1V p-p / Audio output
Power Spec	12V DC \pm 2V / 500mA (HDC-IR90AV: 12V DC \pm 2V/1A required)
Operation Temp	-10°C ~ 50°C

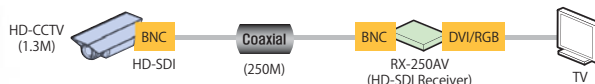
Accessories for 1.3M

HD-SDI Receiver / HD-SDI Repeater / HD Multi-Signal Converter / HD Character Generator / HD Encoder, Decoder.

HD-SDI Receiver : RX-250AV



This device is designed for Megapixel Camera only.
This Box type HD-SDI receiver can connect to monitor directly. (BNC In & DVI Out)



- . Coaxial Cable requirement for BNC
- 1) Impedance : 75Ω
- 2) Attenuation : 20db / less than 100M (Frequency 1GHz)

. Note
The quality and distance depends on specification of cable (Recommend 75Ω Coaxial and use high frequency cable that attenuation is lower at 1GHz)

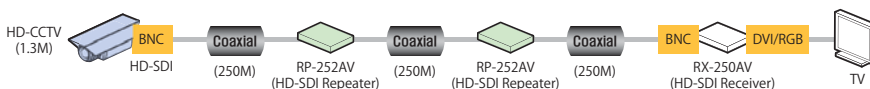
. Test Cable
Coaxial Cable (tested) : 5C-HFBT
Cable Distance : 200m
Connection Configuration

* The distance between HD-CCTV Camera and Receiver is up to 250M
* Connection of cable for Receiver to TV is DIV to DVI cable and DVI to D-SUB cable.

HD-SDI Repeater : RP-252AV



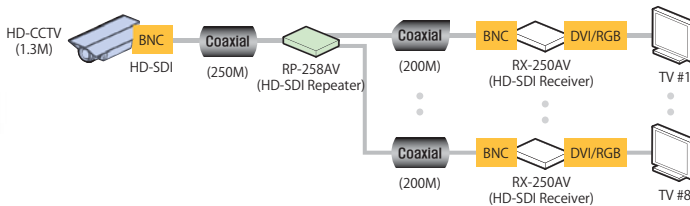
Using 'HD-SDI Repeater' extend distance more than 250M.



HD-SDI Repeater : RP-258AV



Receiving one HD-SDI signal and 8 output sources



HD Multi-Signal Converter : MHD-400AV



MHD-400A is a multi signal (Digital & Analog) converter that transforms into various signal after receiving 1ch high definition SDI signal. MHD-400A supports 1280x960, 1280x720 resolution and multi output therefore, it is perfect for integrated centre.

HD Character Generator : HD-CG100AV



HD-CG100AV is a Character generator adding character or picture on received SDI signal and transmit the combined signal.

- . Character scroll function
- . Bitmap font uses
- . Support various font size (24x24, 40x40, 56x56)
- . Character control system using network
- . 16 Bit color BMP format

HD Encoder/Decoder : HDVS-100S



- . High quality of compression algorithm (H.264/MJPEG)
- . Full-duplex audio/video transmission
- . Full HD resolution (1920x1080) at 30fps
- . Protocols : TCP/IP, Multicast, HTTP, SMTP, SNMP, FTP, DHCP, DNS, Dynamic DNS, RTP, RTSP
- . 1 : N Multi-casting and relayed data transmission
- . Dynamic IP support with Dynamic DNS
- . Power over Ethernet (PoE) support
- . Watchdog for system recovery

HD-CCTV Capture B/D : 1.3M

HD-CCTV CAPTURE B/D

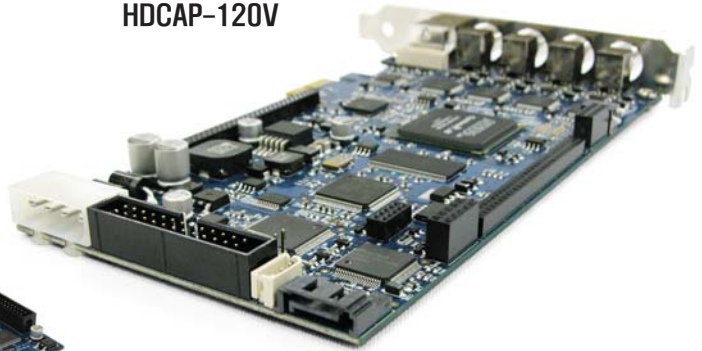
HDCAP is a capture board for high resolution(1280x720/960) and provides high image quality by using advanced HD-SDI transfer format for HD-CCTV Camera. The large image format enables the camera to capture great detail and a wider field of view. It provides significant advantages over traditional Analog CCTV Cameras.

Feature

Real-time Display & Recording 30fps/ch(NTSC), 25fps (PAL)

- . Professional H.264 & MPEG-4 Compression
- . Available Model HDCAP-30V(1ch), HDCAP-60V(2ch) and HDCAP-120V(4ch)
- . Provide SDK for application developers (Design Hybrid Solution)
- . Digitally Delivers crisp and unadulterated video images

HDCAP-120V



HDCAP-30V

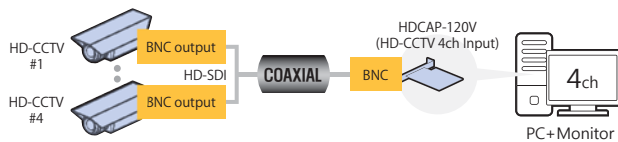


HDCAP-60V

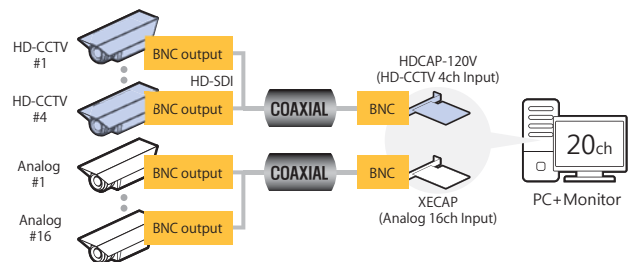


Connection Example : HDCAP-120V

. HD-CCTV only



. HD-CCTV + Analog



Specification

SECTION	HDCAP-30V		HDCAP-60V		HDCAP-120V	
Dimension	130 x 94 mm		148.6 x 93.9 mm		197 x 100.8 mm	
Weight	92.5 g		102 g		175 g	
Power Consumption	4.5 W		5.0 W		8.5 W	
PCI Interface	PCI Express 2.5Gbps					
Camera Interface	HD-SDI					
Data Format	S/W (H.264, MPEG4)					
Video Input	Max. 1ea (Comart HD CCTV Only)		Max. 2ea (Comart HD CCTV Only)		Max. 4ea (Comart HD CCTV Only)	
Video Input Connector	BNC 1ea		BNC 2ea		BNC 4ea	
Video Output	S-Video 1ea / RCA 1ea(TV output)					
Video TV Output	1ch full screen NTSC / PAL					
Zone	NTSC	PAL	NTSC	PAL	NTSC	PAL
Display FPS	30fps(1280x720) 22.5fps(1280x960)	25fps(1280x720)	60fps(1280x720) 45fps(1280x960)	50fps(1280x720)	YUV422 : 90fps(1280x720) YUV411 : 120fps(1280x720) YUV422 : 68fps(1280x960) YUV411 : 90fps(1280x960)	YUV422 : 75fps(1280x720) YUV411 : 100fps(1280x720)
Recording FPS	30fps(1280x720) 22.5fps(1280x960)	25fps(1280x720)	60fps(1280x720) 45fps(1280x960)	50fps(1280x720)	YUV422 : 90fps(1280x720) YUV411 : 120fps(1280x720) YUV422 : 68fps(1280x960) YUV411 : 90fps(1280x960)	YUV422 : 75fps(1280x720) YUV411 : 100fps(1280x720)
Resolution	1280x720 (30fps) / 1280x960(22.5fps)					
Capture Format	YUV422 / YUV411 (S/W H.264)					
Sensor	DIO Selectable (New 0404 / New 0804) Expansion Available					
Serial	RS-485/422(expansioin board)					