

MatriVideo hDVR “Hybrid Digital Video Recorder”

HR-DR2100 Series

Features

- ◆ Hybrid configuration for both analog and IP cameras in one system
- ◆ Synchronized audio/video recording and playback
- ◆ Real time recording at 30 frames per second per camera
- ◆ Stable and virus free application on Linux OS
- ◆ High performance hardware MPEG4/H.264 video compression
- ◆ Automatic time synchronization between all units in MatriVideo (NTP protocol)
- ◆ Variant recording modes - continuous, motion detected, alarm, scheduled, manual and SDK API
- ◆ SDK API ready for integration with POS, Access Control and Building Automation systems
- ◆ Pre-alarm and post-alarm video recording
- ◆ Quadruple operations for camera live viewing, recording, playback and remote streaming
- ◆ Alarm history and user activity log for six months
- ◆ Comprehensive graphical illustration for quick search of recorded video
- ◆ Playback by date, time, camera and alarm instance
- ◆ Hardware watchdog for guaranteed high availability
- ◆ Support NTSC/PAL analog video input
- ◆ PTZ control via RS-422 / 485
- ◆ Remote viewing, access, and control via TCP/IP (LAN/WAN/Internet)

A break-through innovative design to bridge the gap of analog and IP cameras

MatriVideo™ hDVR is designed for the dynamic needs of the emergent digital video surveillance market. With the high video image resolution, seamlessly integrated mass storage, alarm recording, and hybrid camera configuration, hDVR delivers the power of high performance to security professionals from small to largesites.

Hybrid configuration allows customers to use both Analog and Digital/IP cameras. It can support different video formats of IP cameras (MJPEG, MPEG4). When connected with MJPEG IP camera, hDVR will convert the video image into MPEG4 format to achieve longer video storage and reduce remote viewing network bandwidth.

hDVR provides high-resolution image up to (704 x 480 NTSC, 704 x 576 PAL) with 10 times smaller data size than Motion JPEG. It is achieved by using advanced hardware MPEG4/H.264 compression technology. It also comes with options of dual compression streams for remote live streaming (low bit rate) and local recording (high quality) simultaneously.

Unlike conventional DVR systems, hDVR provides customers a stable and secure system based on the Linux OS. It has the capability to keep complete audit trail database (with six months history) that tracks users and their activities on the system.

hDVR allows different recording settings - continuous recording, motion detected recording, event triggered recording, and scheduled recording. This not only increases the data storage utilization, but also facilitates quick and instant event searching.

hDVR provides the most intelligent and comprehensive video search tool. Its graphical display illustrates the recorded video period distribution over the history, yet with quick indicators for alarm instances (from video loss, motion detection, sensor or digital input, even POS or Access Control System event), and manual recording instances (special events triggered by security guard onsite).



MatriVideo Architecture

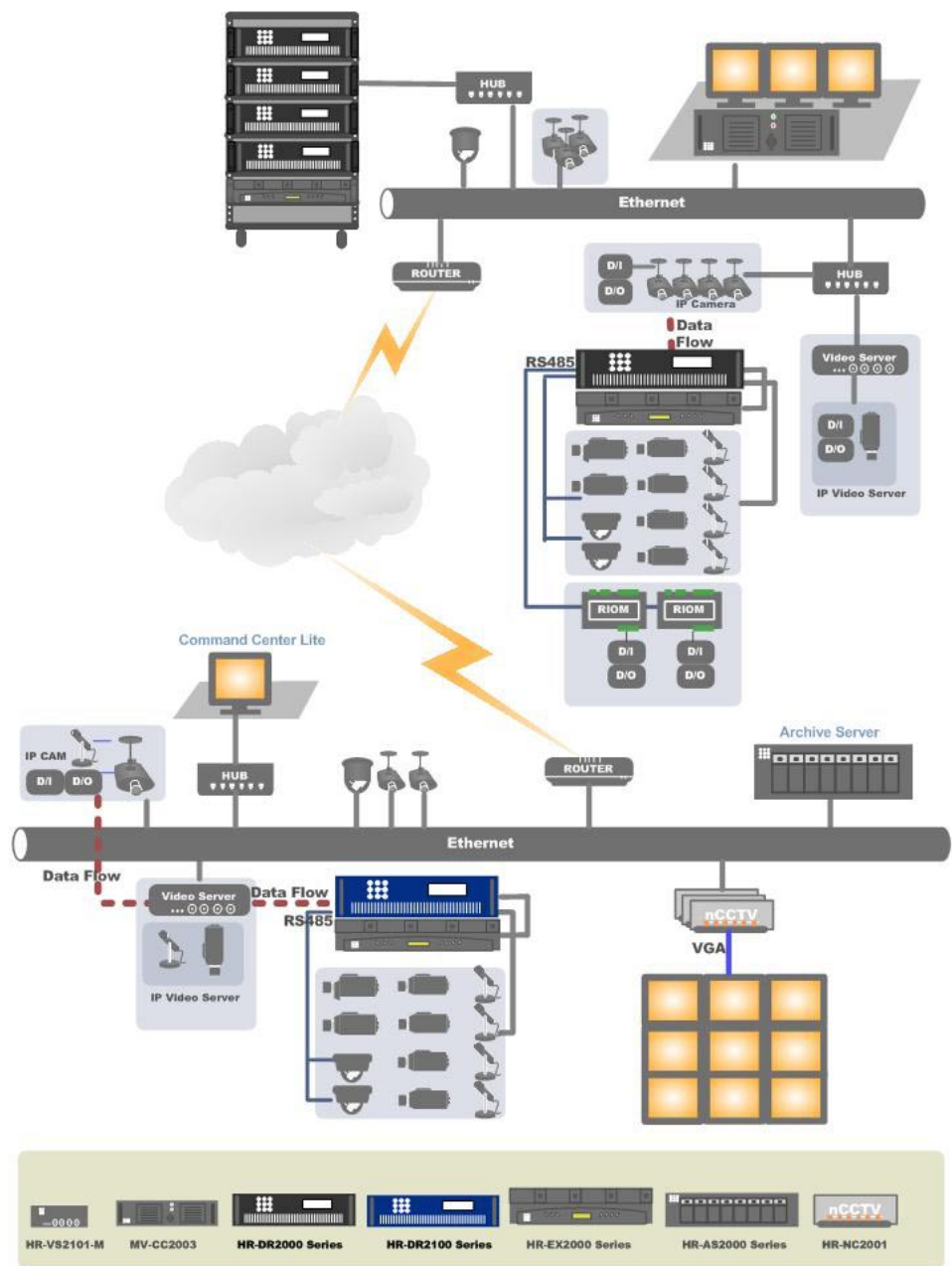
MATRIVIDEO™

A complete system to provide high resolution, long term digital video storage and IP based CCTV solution on a scalable and reliable platform

MatriVideo™ is a complete solution for digital video surveillance industry. It is a platform that incorporates the legacy analog CCTV system and new IP-based digital surveillance system with hybrid configuration, distributed enterprise architecture and centralized management.

MatriVideo™ is an open platform that adopts the latest IT technology yet provides easy installation and configuration for security professionals. Its plug-and-play feature allows users to extend and grow their security sites confidently.

MatriVideo™ answers the need for larger storage capacity, networkable components, better image indexing, high image resolution, TCP/IP camera and easier camera relocation. It provides a total solution that meets the emergent and diverse demands from security industry.



Specification

D1 Solution		HR-DR2108	HR-DR2112	HR-DR2116
VIDEO	Video Input	8 Analog Channels + 16 IP Video	12 Analog Channels + 16 IP Video	16 Analog Channels + 16 IP Video
	Video Standard	NTSC / PAL		
	Display Resolution	704 x 480 (NTSC)		
		704 x 576 (PAL)		
	Max. Display Speed	Analog: 30 fps / channel(NTSC)		
		Analog: 25 fps / channel(PAL)		
	Display Layout	1 / 4 / 9 / 16		
Image Control	Contrast, Brightness, Saturation, Hue			
AUDIO	Audio Input	8 Channel		
	Input Level	83 dBm, 600Ω		
RECORDING & STORAGE	Recording Compression	H.264 / MPEG4		
	Recording Resolution	704 x 480 (NTSC)		
		704 x 576 (PAL)		
	Max. Recording Speed	240 / 360 / 480 fps / system (NTSC)		
		200 / 300 / 400 fps / system (PAL)		
	Image Size	0.96KB ~ 6.72KB / frame		
	Recording Modes	Continuous, Scheduled, Motion Detected, Event Triggered, Manual, API		
	Pre/Post Alarm Recording	1 ~ 20 seconds		
Internal IDE Storage	200 GB ~ 1400 GB			
External Storage	HR-EX2100, HR-EX2000, HR-AS2000 (Optional)			
VIDEO SEARCH	Searching Method	Date / Time / Camera / Alarm List		
REMOTE MONITORING	Monitoring Environment	MatriVideo Command Center		
CONNECTORS	Video Input Connectors	8 / 12 / 16 BNC Ports		
	Audio Input Ports	8 RCA Ports		
	Com 1 / Com 2	RS-232 / DB9		
	Keyboard	PS/2 Style		
	Mouse	PS/2 Style		
	Ethernet	RJ-45, 10/100Mbps		
	USB	2 x USB 2.0 / USB 1.1 Ports		
	VGA Output	15 Pin Female DSUB		
I/O CONTROL	I/O Controls	Maximum 64 Inputs / 32 Outputs using Remote I/O Modules		
	Optional Remote I/O Module	ID-IO2000-1600 (16 DI), ID-IO2000-0008 (8 DO), ID-IO2000-0808 (8 DI / 8DO) C232-485i (RS232/485 converter)		
CAMERA COMPATIBILITY	IP Video Servers, Cameras	Axis: AXIS2100, AXIS2110, AXIS2120, AXIS2420, AXIS2400+, AXIS2401+, AXIS 2411 Messoa: NVS-121 Pixord: Pixord 200, Pixord 1000, Pixord 2000, Pixord 4000 Sony: SNC-RZ25N, SNC-DF40 ACTi: SED-2100R, SED-2100S, CAM-5100, CAM-5100S Instek Digital: HR-VS2101-M		
	PTZ Cameras	Panasonic WV-CS850(A)/854(A), Bosch/Phillips Autodome G3A, PELCO (Spectra and Esprit Series)		
ELECTRICAL	Electric Power Source	AC 115V / 230V		
	Power Output	400 W		
SYSTEM INFORMATION	CPU	Intel P4 2.8 GHz		
	Memory	512 MB		
	Operating System	Linux		
ENVIRONMENT	Operating Temperature	0 ~ 40°C		
	Humidity	Maximum 80%, non-condensing		
PHYSICAL	Dimension	17.2"(W) 22.8"(D) X 5.2"(H)		
	Weight	35.27 lb without HDD		



INSTEK DIGITAL
www.instekdigital.com

Instek Digital USA

3661 Walnut Avenue,
Chino, CA 91710, USA
TEL 1 (909) 627-8811
FAX 1 (909) 627-8838
Email sales@instekdigital.com

Instek Digital Taiwan

8F, No.94, Baozhung Road,
Xindian City, Taipei County, Taiwan 231
TEL 886-2-29141839
FAX 886-2-29101803