

INSTEK DIGITAL

<http://www.instekdigital.com>



Embedded Linux Technology

Enterprise Linux Recorders

MatriVideo uses an optimized embedded Linux OS on a flash drive or a USB DOM to provide the highest level of performance, reliability, and protection.



- Excellent Stability
- Embedded Design Eliminates Single Point of Failure Due to HDD Malfunction
- Easy to Install, Maintain, and Troubleshoot
- Protection Against Viruses

Select Instek Digital's surveillance designed hardware and software for an integrated mission-critical system.

- One-Stop Shopping with Whole Unit Warranty
- Reduce Time Installing, Configuring, and Testing
- Enterprise Hardware Options with Advanced Features on Field-Proven References
- Embedded Linux for Greater Virus Protection and Maximum Uptime

Turn-Key Solution



Software Solution

Transform a standard PC into a reliable recorder server by simply plugging in MatriVideo's NVR Software Solution.



- No Single Point of Failure Due to HDD Malfunction
- Minimum Installation Time
- Expand Your Channels Anytime
- Hardware Flexibility Means Maintenance is Timely and Cost Effective

MatriVideo Central Management System

- Eliminate time wasted switching between live, playback and analysis with a fully integrated platform.
- Flexibly extend video display to a CCTV wall, a spot monitor, or a multiscreen viewing station through a single enterprise user interface.
- Organize your cameras by map, camera tree, or customizable groupings to access any camera on your network instantly.



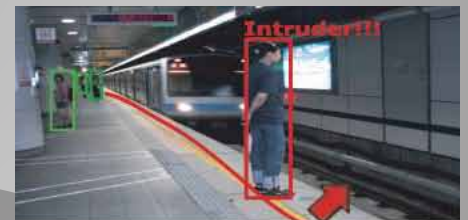
Instant camera call-up on the Command Center

Alarm triggered using intelligent video analytics

View recorded video with advanced playback tools

Proactive Video Intelligence

- Set scenarios to focus on critical moments.
- Use sophisticated video alarms such as intrusion, object left, and loitering detection.
- Enhance your business intelligence by using analytics such as entry and exit counting.



STREAMLINED VIDEO MANAGEMENT WORKFLOW

Case Management

Powerful Search & Enhanced Playback Options

- Rewind, fast-forward, slow motion, pan, and zoom to get the best view during video playback.
- Use smart searches such as ArgusView to reduce a 12 hour video search to 3 mouse clicks.
- Search by alarm instances to quickly find the critical events.

Build a Case

- Create multimedia rich reports by attaching screenshots and videos directly from the Command Center.
- Improve efficiency by completing workflow from the same interface used to view, search, and analyze video.



ArgusView

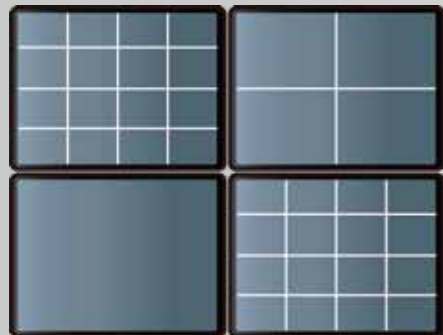


Enhanced Playback

MONITORING / MANAGEMENT

Network CCTV (nCCTV)

- Virtual Matrix Switch
- Eliminate complex installation and cabling of traditional CCTV
- Individually switch between live video and playback
- Central management from Command Center
- Migration of CCTV from "Close Circuit" to IP network and open platform
- Flexible extension of video display to virtually anywhere
- Support for camera patterns and camera tours



VIDEO ANALYTICS

Real-Time Video Analytics

Scenarios:

- Quick motion detection
- Intrusion detection
- Loitering detection
- ATM proximity warning
- Crowd density management
- Object left / removal detection
- Event counting – entry / exit
- Scene change detection



Features:

- Concurrent camera analysis
- Concurrent multiple detection rules per camera
- Hybrid support for MP, IP and analog cameras
- User configuration analytic schedule
- Real-time notification by e-mail, map pop-up, alarm recording and PTZ preset

CAMERAS

IP Cameras

- Video compression: MPEG-4 and H.264
- Two-way audio support
- Auto camera discovery
- Power over Ethernet (PoE) support
- MP image quality
- Onboard recording with SD card

Analog Camera



IP Camera



MatriVideo Video Server

- H.264 real-time video compression
- From 8 to 16 channels supported in 1U rack mountable design

MANAGEMENT APPLICATION

Command Center

- Instant access to an unlimited number of cameras and DVRs / NVRs / Archive Servers
- Instant playback for prompt response
- Four monitors for extensive camera monitoring and running of optional secondary applications
- Real-time live video viewing per camera
- Comprehensive graphical display for video playback and alarm response
- Remote MatriVideo system configuration
- Advanced Smart Search of recorded data using video analytics
- Efficiency tools such as SpeedKey to view a camera from anywhere on the network in 4 keystrokes
- Case Builder generating evidence reports



Command Center Dual

Dual monitor Command Center to save desk space

Command Center Lite

Single monitor Command Center for portable operation

Command Center One

Free single monitor Command Center application to manage a single recorder

NETWORK

Local Display



RECORDERS

MatriVideo Video Recorders

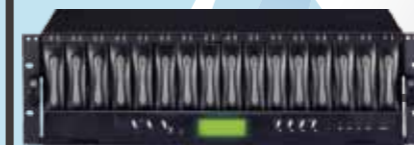
- Embedded Linux OS design for stability and security
- Sophisticated failover and switchback
- Hybrid configuration to record both analog and IP cameras
- Hardware H.264 video compression
- Large integrated storage capacity with up to 12 swappable hard drive bays
- Optional, easy to configure RAID-5 and RAID-6 for video data protection
- Support for multiple megapixel IP cameras
- Real-time video recording on up to 32 analog, or 64 IP channels
- Local display supported on all NVR models
- Embedded SQL in video storage for faster playback



STORAGE

Extended Storage

- Interface with SCSI (DAS), iSCSI (IP SAN) or COLDSTORE
- Support for RAID-5 and RAID-6 and hot swappable hard drives
- Redundant hot swappable power supplies
- Real-time drive activity and status indicators
- Audible alarm notification
- Bad block auto-remapping



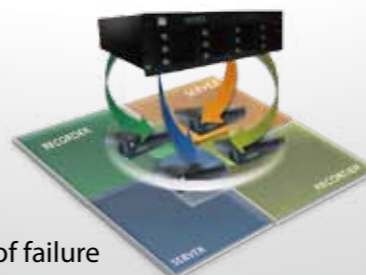
BACKUP

Archive Server

- Real-time remote backup for MatriVideo DVRs / NVRs
- Easy archive media management and recycling
- Quick search and playback on archived video data
- Concurrent archive for multiple cameras from different DVRs / NVRs
- Real-time video data mirroring for high availability

Failover Server

- Automatic NVR failover and switchback
- N + S architecture
- Average switchover takes less than 30 seconds
- Unlimited standby servers possible
- No central server requirement eliminate single point of failure



COLDSTORE

- Eliminates the risk of dual HDD failure associated with RAID-5
- Reduces data reading/writing by 87% to prolong the lifespan of your HDDs
- Requires no rebuild time in the event of HDD failure providing continuous high performance
- Runs over 30TB of storage on a measly 50 W on standard SATA disks
- Unplug HDD anytime when Evidence Archive is needed



MatriVideo Command Center

Surveillance Monitoring and Controlling Platform

Maximize surveillance monitoring capabilities and efficiency with our state-of-the-art MatriVideo Command Centers. Arrange real-time video feeds in unique patterns and tours or take control over all playback functions with a simple click of a button on an intuitive user interface.



Command Center		MV-CC5404	MV-CC5402	MV-CC2001
SYSTEM	Function	Central Management Workstation	Central Management Software	Remote Software
	Operating System	Windows XP/Vista	Windows XP/Vista	Windows XP/Vista
	Monitor Output	4	2	1
	Mounting Type	Rack Mount	n/a	n/a
	Audio Output	Yes	Yes	Yes
	Interface	Ethernet 10/100/1000Mbps	Ethernet	Ethernet
	DVR/NVR/AS Management	Unlimited	Unlimited	Unlimited
	Camera Management	Unlimited	Unlimited	Unlimited

MatriVideo Video Recorders

Enterprise Digital Video Surveillance System

With high video resolution capabilities, integrated mass storage, and hybrid camera flexibility, MatriVideo video recorders are designed for the dynamic needs of today's digital video surveillance market.



hDVR / DVRs		DR5400-3U	DR5300-3U	DR5400-2U	DR5300-2U	DR3800-2U	DR3700-2U	DR5400-1U	DR5300-1U	
SYSTEM	Function	hDVR / DVR		hDVR / DVR		hDVR / DVR		hDVR / DVR		
	Operating System	Embedded Linux		Embedded Linux		Embedded Linux		Embedded Linux		
	Dual Power Supplies	Yes		Yes		No		No		
	VIDEO	Analog	Cam Input	16, 32	32	8, 16	16	8, 16	8, 16	8
Compression			H.264		H.264		H.264		H.264	
Resolution			4CIF, DCIF, CIF, QCIF		4CIF, DCIF, CIF, QCIF		4CIF, DCIF, CIF, QCIF		4CIF, DCIF, CIF, QCIF	
Frame Rate			30 / 25 Frames	15 / 12 Frames	30 / 25 Frames	15 / 12 Frames	30 / 25 Frames	15 / 12 Frames	30 / 25 Frames	15 / 12 Frames
IP		Cam Input	4, 8, 12, 16		4, 8, 12, 16		4, 8, 12, 16		4, 8	
		Compression	H.264, MPEG4, MJPEG		H.264, MPEG4, MJPEG		H.264, MPEG4, MJPEG		H.264, MPEG4, MJPEG	
		Resolution	All Supported		All Supported		All Supported		All Supported	
		Frame Rate	All Supported		All Supported		All Supported		All Supported	
STORAGE	Internal HDD	12 Bays		8 Bays		4 Bays		2 Bays		
	Optional RAID	RAID-5 and RAID-6		RAID-5 and RAID-6		n/a		n/a		
	External Storage	Archive Server / DAS / SAN		Archive Server / DAS / SAN		Archive Server / DAS / SAN		Archive Server / SAN		



NVRs		NR5400-3U	NR5400-2U	NR3800-2U	NR3800-2C	NR5400-C2	
SYSTEM	Function	NVR					
	Operating System	Embedded Linux					
	Dual Power Supplies	Yes	Yes	No	No	No	
VIDEO	IP	Cam Input	16, 32, 48, 64	16, 32, 48	16, 32	4, 9, 16	4, 9
		Compression	H.264, MPEG4, MJPEG				
		Resolution	All Supported				
		Frame Rate	All Supported				
STORAGE	Internal HDD	12 Bays	8 Bays	4 Bays	3 Bays	2 Bays	
	Optional RAID	RAID-5 and RAID-6	RAID-5 and RAID-6	n/a	n/a	n/a	
	External Storage	Archive Server / DAS / SAN	Archive Server / DAS / SAN	Archive Server / DAS / SAN	Archive Server / SAN	Archive Server / SAN	

Supported IP Cameras



Open SDK API

MATRIVIDEO™ offers an open software development kit (SDK) and application programming interface (API) for third party applications to provide a flexible and customizable solution.

Example Integration Scenarios:

- Door Access Control
- PA and Fire Alarm System
- Hardware Status Reporting
- Point of Sale Monitoring
- Data Importing and Exporting



About Instek Digital

Instek Digital formed in 2003 as an independent subsidiary of GW Instek to focus on the development of high quality digital surveillance products. A team of experienced software professionals and hardware engineers was assembled to create powerful yet affordable DVRs and NVRs and to develop a highly integrated system so that Instek Digital could become a complete solutions provider. With state of the art hardware design and comprehensive software functionality, we provide a one stop shop for projects with hundreds or thousands of cameras and the long list of worldwide proven installations is testament to our focus on quality. Speak to one of our solution specialists today to find the perfect solution for your security challenge.

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