



 **INSTEK DIGITAL**  
<http://www.instekdigital.com>

For any security challenge , we provide

# The Enterprise Video Solution

MATRIVIDEO

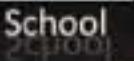
H3 Hybrid

High Availability  
High Resolution  
High Intelligence

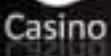
Mission Complex



City Center



Casino



Enterprise Size Business



Retail and Distributed Business



Instantly build a reliable recorder server by simply plugging in a USB DOM with an embedded Linux OS.  
- Hardware Flexibility  
- Minimal Installation Time  
- Excellent Stability  
- Easy Maintenance and Troubleshooting

Software Solution

Turn-Key Solution

Select Insteek Digital's surveillance designed hardware and software for an integrated mission-critical system.  
- One Stop Shopping  
- Whole Unit Warranty  
- Reduce Time Installing, Configuring, and Testing  
- Field-Proven References

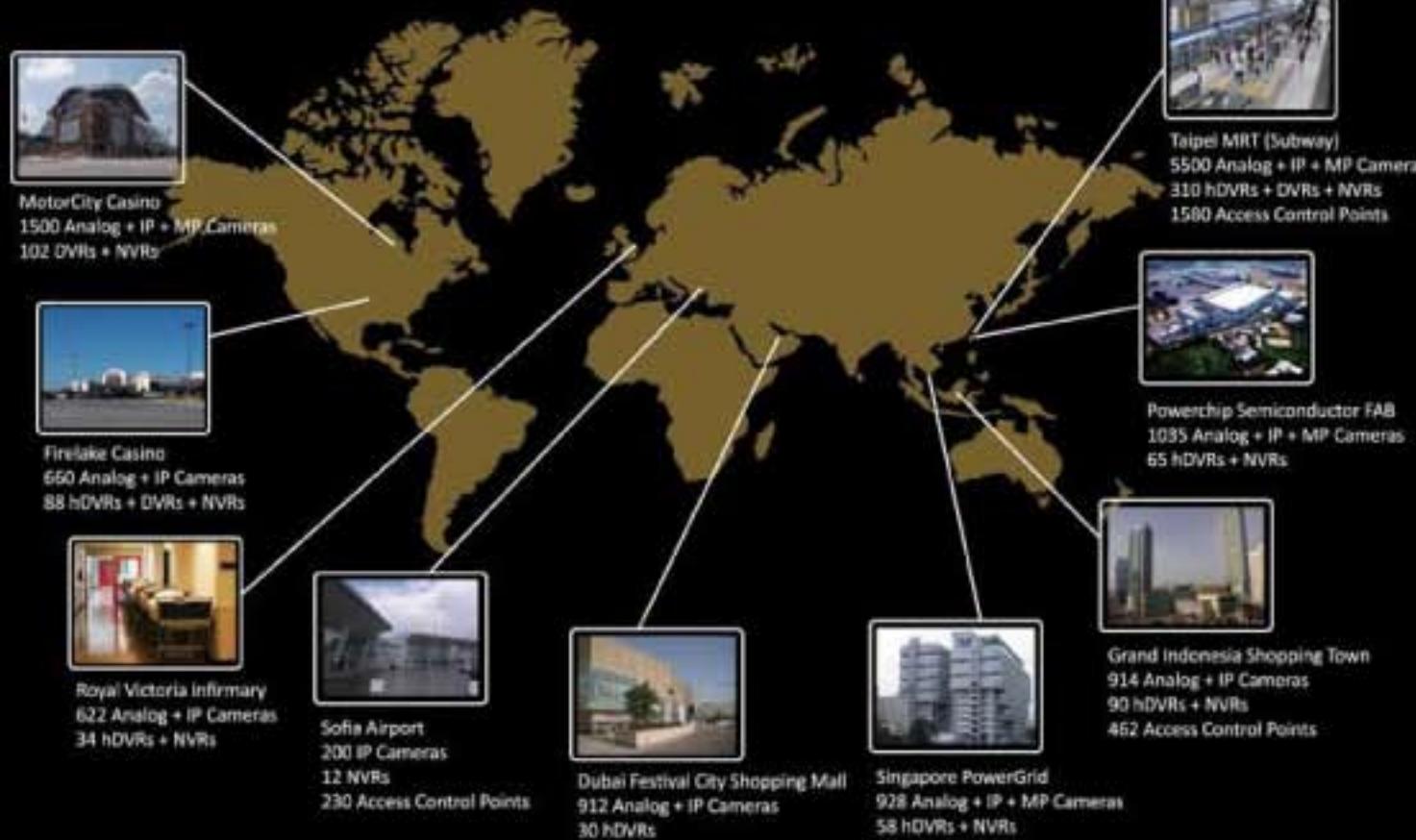


Quick Service Restaurant



Small to Medium Size Business

## Worldwide Proven Installations



## Awards

2006 - "World's Best Metro System" selected by A&S Magazine

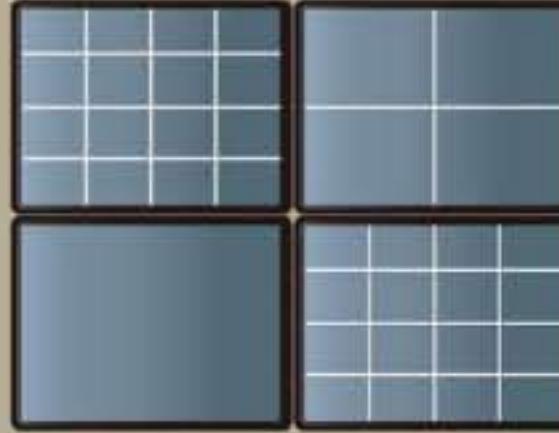
2008 - "Master of Polish Security Technology 2008" on Securex 2008 exhibition

2009 - Winner of "Integrated Security Solution of the Year" at Security Excellence Awards 2009

## 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



## 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
- Case builder generating evidence reports
- 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



### 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

## 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 multiple camera analysis
- Concurrent multiple detection rules per camera
- Hybrid support for IP and analog cameras
- User configurable analytic schedule
- Real-time notification and reaction
- E-mail notification
- Map pop-up
- Alarm recording
- PTZ preset



## Analog Camera



## IP Camera



## Video Server

## RECORDERS & STORAGE

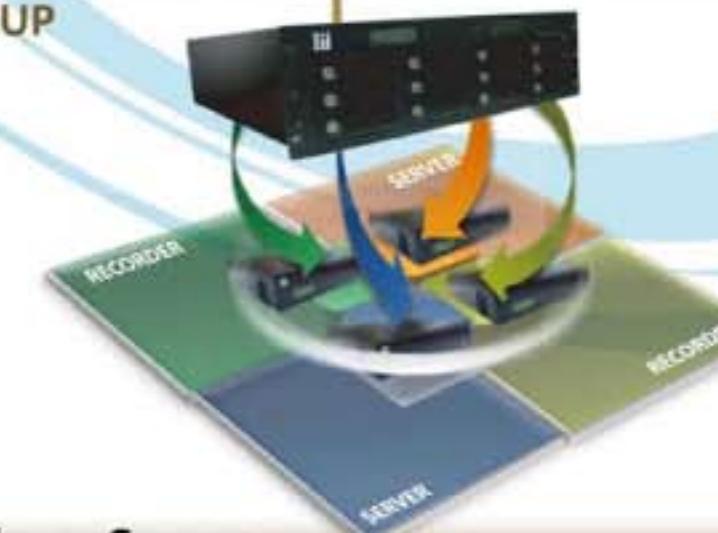
### MatriVideo Video Recorders



- 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



## BACKUP



### 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

## Extended Storage

- Interface with SCSI (DAS) or iSCSI (IP SAN)
- 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

## 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

# 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

## STREAMLINED VIDEO MANAGEMENT WORKFLOW

Alarm triggered using intelligent video analytics

### 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.



Case Management

### Powerful Search & Enhanced Playback Options

- Rewind, fast-forward, slow motion, pan, and zoom to get the best view during video playback.



## 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.



# USB DOM Embedded Linux Technology



## Enterprise Linux Recorder

MatriVideo hardware uses an optimized embedded Linux OS to provide the highest level of performance.

### Linux DOM Technology Advantages:

- Excellent Stability
- Easy to Install
- Protection Against Viruses
- Easy Maintenance and Troubleshooting
- No Single Point of Failure Due to HDD Malfunction



## 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	
VIDEO	Dual Power Supplies	Yes		Yes		No		No	
	Cam Input	16, 32	32	8, 16	16	8	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		30 / 25 Frames		15 / 12 Frames		30 / 25 Frames	
	IP	4, 8, 12, 16		4, 8, 12, 16		4, 8, 12, 16		4, 8, 12, 16	
STORAGE	Cam Input	H.264, MPEG4, MJPEG		H.264, MPEG4, MJPEG		H.264, MPEG4, MJPEG		H.264, MPEG4, MJPEG	
	Compression	All Supported		All Supported		All Supported		All Supported	
	Resolution	All Supported		All Supported		All Supported		All Supported	
	Internal HDD	12 Bays		8 Bays		4 Bays		2 Bays	
	Optional RAID	RAID-5 and RAID-6		RAID-5 and RAID-6		No		No	
	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		NVR		NVR	
	Operating System	Embedded Linux		Embedded Linux		Embedded Linux	
VIDEO	Dual Power Supplies	Yes		Yes		No	
	Cam Input	16, 32, 48, 64	16, 32, 48, 64	16, 32	4, 9	4, 9	
	Compression	H.264, MPEG4, MJPEG	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	All Supported	
	Frame Rate	All Supported	All Supported	All Supported	All Supported	All Supported	
	IP	12 Bays		8 Bays		3 Bays	
STORAGE	Internal HDD	RAID-5 and RAID-6		RAID-5 and RAID-6		No	
	Optional RAID	Archive Server / DAS / SAN		Archive Server / DAS / SAN		Archive Server / SAN	
	External Storage	Archive Server / SAN		Archive Server / SAN		Archive Server / SAN	



Arecont Vision

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MESSOA

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ideas for life

PELCO

PIXORD

SAMSUNG

SANYO

SONY.

VIVOTEK

## Open SDK API

**MATRIVEDIO** 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 Insteek Digital

Insteek Digital formed in 2003 as an independent subsidiary of GW Insteek 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 Insteek 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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