



## Intellex® LT

### DIGITAL VIDEO MANAGEMENT SYSTEM



#### FEATURES

- Simplify steps by searching for a specific text stream and reviewing the video with time synchronized text display
- Remove any doubt by hearing what occurred with integrated live and recorded audio
- Remotely view live video and control domes with the free browser-based viewer
- Provide video clips to the authorities, vendors or other non-security personnel by exporting video, audio and text to CD-RW
- Integrate video into other software applications using the Intellex API
- Choose from three pre-configured packages (Standard, Deluxe and Premier) for easy ordering
- Text recording from devices like cash registers, ATMs, etc.
- Store more than 900 hours of real-time multiplexed video (system record speed of 30 ips NTSC; 25 ips PAL with a 360 GB database) using Active Content Compression
- Better utilize storage space with user-selectable image settings
- Remotely view, manage and review with Network Client™ Remote Management Software
- Save time with Smart Search by instantly retrieving motion based search results
- Manage the video database with Intellecord user-defined motion events
- Safeguard important data by archiving to external DAT without interrupting recording
- Instantaneous playback of last few seconds of recorded video for quick and easy verification
- Record up to 60 seconds of pre-alarm video

The Intellex LT is an intelligent digital video management system that combines multiplexing, alarm/event detection, audio\*, text\*, video recording and much more. Intellex LT will simultaneously display live video, playback video, audio and text, host multiple remote users, archive, and search – all while recording multiple cameras.

After images and text are recorded, define the type of recorded events you want to find and Smart Search software instantly locates and replays them with digital precision. Or type in a text string and Intellex LT will instantly display the video and time-synchronized text data for review, all while still recording live events. Define motion based event criteria before recording, and Intellecord® software records only those events you want to see.

Intellex LT provides intelligence in search tools and management capabilities beyond many standard DVRs. With the addition of text and audio recording/playback, Intellex LT provides a productive investigation tool. A variety of advanced, user-programmable features allow you to manage video data.

And because Intellex LT is upgradable, networkable and easily integrates with other equipment, it's a cost-effective solution for many new and existing systems.

\*Premier Models only

## FEATURES

### More Than a Digital Recorder

The Intellex LT digitally records multiple camera images directly to the internal hard drive, eliminating conventional VCRs and their associated maintenance and degradation limitations. But Intellex LT does more than just record. Simultaneously record and playback video (text and audio\*) and archive while using Intellex LT's sophisticated search functions to define and find only those important events that meet your criteria. Intellex LT provides a powerful, intelligent solution to your security and operations systems.

### Simple, Intuitive User Interfaces

Intellex LT's user interface is designed to be easy to use, whether you are a beginner or an advanced user. Access all operations using one-click buttons, pull-down menus, adjustable sliders and tabbed screens - even draw target areas on-screen using mouse commands. These powerful screens allow quick setup, operation, and reconfiguration.

### Text Recording

Save valuable time searching for video that corresponds with transaction data. Intellex LT records RS-232 text data streams from devices like cash registers and ATMs, and displays it next to time synchronized video. Search the database by specifying the exact text string in the text based search screen. Save countless hours and money combining simple transaction datamining with your video system.

### Live and Recorded Audio

With the Premier package, Intellex now provides a single channel of live or recorded audio. Intellex takes the guess work out of surveillance by allowing users to hear what is being said, whether reviewing pre-recorded video or watching live video, Intellex captures the conversation, time-synchronized with the video.

### Instantly Find Text or Motion Based Video

Instantly retrieve recorded video and text data of any event. Intellex LT uses Smart Search to filter through hours of video to find only the events which matter to you. With the click of a mouse, highlight the area to be searched. Intellex LT finds where perimeters were crossed, lights were turned on/off, special types of motion occurred, or alarms were tripped. Additionally, search for video based on transaction criteria like voids, account numbers or teller/checker IDs. This saves hours of time you used to spend manually searching through endless amounts of video to locate critical documentation of security breaches or other events.

### Intelligent Recording and Alarm Detection

Use IntellexCord to record only certain types of events. Define perimeter areas, watch for changes in light levels, set motion detection or even specify time periods. Record and playback up to 60 seconds of pre-alarm video. Each setting can be made on a per camera basis, so your system can be customized for optimal security and record duration.

### Export Video, Audio and Text to CD

The integrated CD-RW allows users to save video to a standard CD. Users may now provide the authorities, vendors or other non-security personnel with video, audio and text\* data of incidents that may be viewed on their own PC. The player may be downloaded to the CD as well, so no additional software needs to be purchased. Video is downloaded by selecting cameras and clips or by an alarm-activated download mechanism which automatically downloads approximately 25 minutes of the latest video.

### Remote Accessibility

The Intellex LT now offers the Browser Client. Users host and customize their own web site to provide live viewing of Intellex video through a standard browser interface. Multiple clients can access and even control domes remotely through the browser client, available at no charge. If more advanced operation is required, the Network Client allows users to remotely configure Intellex, view live video or select video segments by time, date, alarm, or Smart Search filter, and download to your PC running Windows® 98/2000 or Windows NT® 4.0 with Network Client. Save, annotate and organize copied video into "incident folders" to aid with investigations. Export video clips in ACC format as an AVI file to play on any Windows-based PC. Individual images can be enhanced, printed and converted to standard formats. Network connection and digital management has never been easier or more cost effective.

### Upgradable, Expandable Platform

Keep your system up-to-date with software upgrades easily installed from digital media. Expand recording capacity to fit your needs with the Extended Storage Module. The Intellex LT is designed to grow to meet the changing needs of today's security or operations environments. In addition, each Intellex system can accommodate up to three Extended Storage Modules.

### Integrity of Evidence

Intellex LT's recording format gives each image a unique identification "stamp." So even though the file structure is PC-compatible, the original video images can't be altered or modified, enabling a solid chain of evidence for prosecution.

### Selectable Image Quality, Rate and Sensitivity

Optimize the settings of the Intellex LT to fit your specific needs. Choose Super, Extended Record or Normal to balance image quality against record duration. Intellex LT displays video in 640 x 480 resolution or 800 x 600 in full screen. Adjusting image rate and sensitivity gives you even more control for your specific application.

### Camera Display and Playback

Select live displays for any camera in any position in 1x1, 2x2, 3x3 or 4x4 picture formats. In live camera display and playback, choose Full Screen Mode to hide the controls and fill the entire screen, or Menu Mode to display the control interface. Play back single camera video segments at a variety of speeds in forward or reverse sequence - or even single-step images one at a time.

### Take A Closer Look

Choose any live or recorded picture area and zoom in 2 to 16x for a closer look. Digitally enhance color, contrast, and sharpness. Move around in the enlarged picture for a quick and easy magnified look at all details. This allows for better analysis and identification of important events.

### Easy to Set-Up and Operate

The Intellex LT not only reduces equipment expenses and investigation time, but its simple on-screen menus make training and operation intuitive and easy - even customize access rights for multiple operators with passwords. Other user-friendly features include a removable BNC panel, and camera termination via software for hassle-free camera connections. Intellex LT is available in English, French, German, or Spanish.

\*Premier Models only

# RECORD DURATION

## Record Duration

Record duration, or the quantity of images that can be recorded on the hard drives, is affected by several factors. Digital video with high levels of activity or detail consumes more disk space than video with little activity or detail.

Other factors include:

- Size of the storage database
- Image rate, image quality and sensitivity settings
- Low light levels or noise in the video signal

Intellex LT helps maximize record duration in several ways. Intellex LT's video data compression method uses "conditional refresh" to capture image changes, delivering the best possible representation of motion under all conditions. Adjustments can be made to the image sensitivity and quality (affecting the amount of compression), image rate and resolution settings to fit your particular recording requirements.

Use the guidelines below to adjust the record duration:

- Reducing the image rate proportionally increases duration
- Increasing the image quality will decrease the duration
- Adjusting the image sensitivity to improve image quality will decrease the duration

Recording audio with video has the same effect on recording duration as adding 2 to 3 ips to the recording rate. This will result in a reduction in recording duration of approximately 1.5% when recording at 60 ips and 67% when recording at 1 ips. The effect of text recording on record duration depends on the volume of text data, but is usually insignificant compared to video and audio.

## Estimated Recording Durations (NTSC) (assuming Moderate Activity & Normal Resolution, video only)

	SYSTEM OVERALL RECORDING RATE				
	60 IPS	30 IPS	15 IPS	7.5 IPS	1 IPS
120 GB	3.4 days	6.9 days	13.8 days	27.6 days	6.9 months
240 GB	6.9 days	13.8 days	27.6 days	55.2 days	13.8 months
360 GB	10.3 days	20.6 days	41.3 days	82.7 days	20.7 months
840 GB†	24 days	48.1 days	96.4 days	6.4 months	4 years
1,000 GB*	28.7 days	57.4 days	3.8 months	7.7 months	4.7 years
1,640 GB**	47.1 days	94.2 days	6.2 months	12.6 months	7.6 years
2,280 GB***	65.5 days	4.3 months	8.6 months	17.5 months	10.6 years

† Utilizing one Extended Storage Module (ESM480)

\* Utilizing one Extended Storage Module (ESM640)

\*\* Utilizing two Extended Storage Modules (ESM640)

\*\*\* Utilizing three Extended Storage Modules (ESM640)

# SPECIFICATIONS

## Operational

### Video Recording System

- \*Internal Media Format . . . . .IDE hard drives provide storage capacities of 116 GB, 236 GB, or 356 GB for recording, depending on the hardware configuration
- Removable Media Format . . . . .CD-ROM 5.25-inch half-height IDE connection; CD-RW 5.25-inch half-height IDE connection
- Archiving Format . . . . .Optional External DAT drive, DDS-4, 5.25-inch half-height, SCSI-3 connection
- Record Mode . . . . .Linear or continuous, selectable
- Video Standard . . . . .NTSC/EIA (RS-170A compliant) or PAL /CCIR

### Image Rate Settings (images per second)

- NTSC/EIA . . . . .60, 30, 15, 7.5, 2.5 and 1
- PAL/CCIR . . . . .50, 25, 12.5, 6.25, 2 and 0.8
- Resolution . . . . .High (640 x 240), recorded  
Low (320 x 240), recorded  
640 x 480 live display

\*4 GB of hard drive capacity reserved for Intellex system software and operation.

## Quality/Capacity Settings

- Extended Record . . . . .Maximum compression
- Normal . . . . .Medium compression
- Super . . . . .Minimum compression

## Video Sensitivity

- Normal . . . . .Medium delta threshold
- High . . . . .Low delta threshold

## Alarm Recording

- Settings . . . . .Image rate, quality and sensitivity can be independently set for alarm conditions
- Adjustable Duration . . . . .Pre-alarm is programmable from zero to sixty seconds; post alarm is programmable from five seconds to five minutes
- Schedule . . . . .Programmable recording times for each day of the week, in thirty minute increments

## Front Panel Controls and Indicators

- Media Cover . . . . .CD-ROM, DAT drive and eject, CD-RW
- Discrete LED Indicators . . . . .Power, alarm, record
- Pinhole . . . . .Power and reset

## Setup/Operation Menu

- Accessed locally via software interface, or remotely from Network Client

## On-Screen Displays

- Camera title, date/time, alarm name, video loss - can be turned on and off in playback mode only

## Inputs/Outputs

- Video Inputs . . . . .16 looping composite, 1 Vp-p, selectable 75 Ω or High-Z, BNC
- Alarm Inputs and Outputs . . . . .16, one per camera, activated by contact closure or TTL/CMOS signal  
Inputs: programmable polarity  
Outputs: active high
- Analog Output . . . . .One composite, 1 Vp-p, 75 Ω
- Digital SVGA Monitor . . . . .800 x 600 pixel resolution, horizontal 31 to 47 kHz, vertical 50 to 75 Hz
- Call/Spot Monitor . . . . .Optional Call/Spot monitor provides an additional real-time composite output (1 Vp-p, 75 Ω), included in Premier package
- Network Host Interface . . . . .TCP/IP Ethernet interface allows network access to video by up to five Network Client users

## Rear Panel Connectors

- Camera Inputs . . . . .16, composite, BNC
- Camera Looping Outputs . . . . .16, composite, BNC, passive loop through, software programmable termination
- Alarm Inputs and Outputs . . . . .Four grounded 12-pin connectors with screw terminals
- Power . . . . .One, IEC-320-C13
- Keyboard . . . . .PS/2-style
- Mouse . . . . .One, 5-pin DIN connector, PS/2-style with pins 1, 3 and 5 active
- Monitor . . . . .One, SVGA, DB15-S
- Video Output . . . . .One composite BNC, and an additional with Call/Spot monitor option
- TV Output . . . . .One S-video (S-video/RCA adapter included)
- Printer . . . . .One, DB25-S, parallel
- USB . . . . .Floppy drive, USB to RS-232 (DB9), CD-RW drive connector
- IEEE 1394 (FireWire®) . . . . .Deluxe package includes interface to Extended Storage Module
- Com2 . . . . .One, RS-232, DB9-P
- Modem . . . . .RJ-11, 56 kB modem is optional
- Network . . . . .RJ-45, category 3 or category five twisted-pair Ethernet
- Audio . . . . .RCA type line or microphone-in, line-out
- SCSI-3 . . . . .One 68-pin female is included with external DAT drive kit

**Electrical**

Power .....110 VAC, 50/60 Hz, 2.0 A  
 240 VAC, 50/60 Hz, 1.0 A

CAUTION: Set the voltage switch to the appropriate voltage (110 or 240) before connecting power.

**Mechanical**

Dimensions (H x W x D) .....172 x 432 x 445 mm  
 (6.75 x 17.0 x 17.5 in)  
 Unit Weight .....14.50 kg (31.90 lbs)  
 Shipping Weight .....16.93 kg (37.25 lbs)

**Environmental**

Operating Temperature .....5° to 40° C (41° to 104° F)  
 Humidity .....5% to 95% RH (non-condensing)  
 Storage Conditions .....-10° to 60° C (14° to 140° F)  
 Maximum Operating Tilt .....15°  
 Operating Altitude .....0 to 3,048 m (0 to 10,000 ft)

**Regulatory**

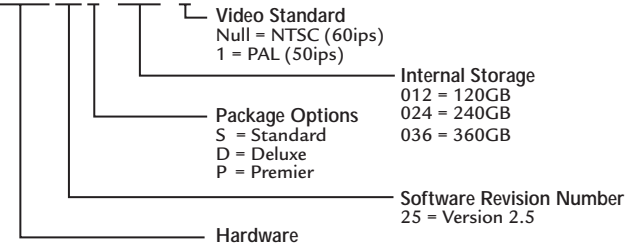
Emissions .....FCC 15b, Class A  
 EN55022 (1995) Class A  
 EN61000-3-2 (1995)  
 EN61000-3-3 (1995)  
 Immunity .....EN50130-4 (1996)  
 Safety .....EN60950 Amendments 1, 2, and 3  
 UL1950, CUL1950, Third Edition

**Accessories**

RDVNC-30 .....Network Client v3.0  
 ESM480, ESM640 .....480 GB or 640 GB Extended Storage  
 Module (up to 3 per Intellex unit)  
 DVRM-01 .....Intellex Front Rack Mount Kit  
 UHRM09 .....Intellex BNC Rack Mount Extension Kit  
 RDVSPK01 .....Speakers  
 RDVEXP01 .....1 to 4 Text Data Port Expander  
 RDVFLP01 .....USB Floppy Drive  
 RDVDAT01 .....SCSI External DAT Drive \*  
 RDVCDRX01 .....External USB CD-RW  
 \* Includes SCSI Interface Card

**PRODUCT CODE CONFIGURATION**

**D60025S-012-1**



Intellex LT Series Package	Standard	Deluxe	Premier
<b>Software Features</b>			
Search based on date, time, camera, alarm	•	•	•
Record up to 60 ips (NTSC), 50 ips (PAL)	•	•	•
Control SensorNet domes from Network Client	•	•	•
View live video from Network Client (up to 5 simultaneous users)	•	•	•
Download recorded video to Network Client	•	•	•
Image enhancement tools	•	•	•
Image printing capabilities	•	•	•
Export images to floppy (external USB floppy drive not included)	•	•	•
Day and Night Intellex settings for "always" recording motion alarms	•	•	•
Simultaneously record, playback, view remotely, conduct a search and more	•	•	•
Individual camera sensitivity and quality settings	•	•	•
Smart Search	•	•	•
Support for remote Smart Search		•	•
Support for remote Intellex configuration and management		•	•
Individual camera scheduling (record all, alarmed recording, etc.)	•	•	•
Alarm quality and sensitivity settings	•	•	•
Scheduled archiving to external DAT (external SCSI DAT available via model number RDVDAT01)	•	•	•
Export support on Intellex with player download capabilities to a CD-RW (CD-RW not included in Standard Package)	•	•	•
Text based searching			•
Support for remote text based searching			•
Single channel of live and recorded audio			•
Single channel RS-232 text recording (expandable to 4 with additional hardware)			•
One license of Network Client Remote Management Software	•	•	•
<b>Hardware Features</b>			
120 to 360 GB storage space	•	•	•
Two monitor outputs (one analog, one SVGA)	•	•	•
CD-ROM drive	•		
Network Interface (TCP/IP Ethernet)	•	•	•
16 video input and output channels	•	•	•
16 alarm inputs and outputs	•	•	•
Internal CD-RW		•	•
Interface for external storage (FireWire)		•	•
56k modem (except in Europe)	•	•	•
1 to 1 USB to RS-232 converter (to allow for simultaneous use of Touch Tracker and one channel of text)			•
Third monitor output (analog call/spot monitor)			•

**BASIC SYSTEM DIAGRAM**

