



Intellex® v3.0

DIGITAL VIDEO MANAGEMENT SYSTEM



FEATURES

- NEW** Runs on the Windows® 2000 operating system
- NEW** Capture up to 120 ips (NTSC)* 100 ips (PAL)* to gather even more data
- NEW** Review events from different angles with multi-channel playback
- NEW** Review up to five minutes of pre-alarm data
- NEW** Remotely view, manage and review with Network Client™ v3.0 Remote Management Software included
- Remotely view live video with the browser-based viewer included
- Export 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 800 hours of real-time multiplexed video (system record speed of 30 ips NTSC; with a 480 GB database) using Active Content Compression
- Use Smart Search to instantly retrieve motion based search results

Intellex v3.0 is an intelligent digital video management system that combines multiplexing, alarm/event detection, audio, text, video recording and much more. Intellex will simultaneously display live video, playback video, audio and text, host multiple remote users, archive, search and more – 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. Type in a text string and Intellex 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 IntelCord® software records only those events you want to see.

Intellex provides search tools and management capabilities beyond standard DVRs. With the addition of text and audio recording/playback, Intellex is a highly productive investigation tool. Add the ability to simultaneously view multiple angles of a single recorded event and Intellex provides an even more effective investigative tool. These advanced, user-programmable features allow you to manage video data.

Intellex is offered in Standard, Deluxe and Premier packages, each containing a pre-configured set of features.

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

* Available only on the DV16000.

FEATURES

More Than a Digital Recorder

Intellex v3.0 digitally records up to 120 ips (NTSC)* 100 ips (PAL)* across multiple cameras directly to the internal hard drive, eliminating conventional VCRs and their associated maintenance and degradation limitations. But Intellex does more than just record. Simultaneously record and playback (video, text and audio) and archive while using Intellex's sophisticated search functions to define and find only those important events that meet your criteria. Intellex provides a powerful, intelligent solution to your security and operations systems.

Simple, Intuitive User Interfaces

Intellex'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 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 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 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 Intellex 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 five minutes 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

Intellex v3.0 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 to 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. Intellex v3.0 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'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 Intellex v3.0 to fit your specific needs. Choose Super, Extended Record or Normal to balance image quality against record duration. Set the record resolutions to the standard 640 x 240 or reduce to 320 x 240* for longer record durations. Intellex automatically 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.

Multi-Camera Playback and Display

Select live and playback 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 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 2-16X 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

Intellex v3.0 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 is available in English, French, German, or Spanish.

* Available only on the DV16000

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 helps maximize record duration in several ways. Intellex'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 2-3 ips to the recording rate. This will result in a reduction in recording duration of approximately 1.5% when recording at 120 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 112 GB, 152 GB, 312 GB, or 472 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, one 1.44 MB 3.5 in half-height diskette

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 120†, 60, 30, 15, 7.5, 2.5 and 1

PAL/CCIR 100†, 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, 800 x 600 full screen

Quality/Capacity Settings

Extended Record Maximum compression

Normal Medium compression

Super Minimum compression

Video Sensitivity

Normal Medium delta threshold

High Low delta threshold

Gain Control Reduce gain, normal

increase gain low (500 ft Cat 5 run)

increase gain medium (1,000 ft. Cat 5 run)

increase gain high (1,500 ft Cat 5 run)

Alarm Recording

Settings Image rate, quality and sensitivity can be independently set for alarm conditions

Adjustable Duration Pre-alarm is programmable from five seconds to five minutes; 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, CD-RW, diskette drive

Discrete LED Indicators Power, alarm, record

Pinhole Power and reset

Setup/Operation Menus Accessed locally via software interface, or remotely from Network Client v3.0

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 8 or 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 v3.0 users

Rear Panel Connectors

Camera Inputs 8 or 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

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

† Available only on the DV16000

‡ DV8000 has eight non-looping video inputs

Rear Panel Connectors, continued

- Com2One, RS-232, DB9-P
- ModemRJ-11, 56Kb (Deluxe and Premier only)
- NetworkRJ-45, Cat 3 or Cat 5 twisted-pair Ethernet
- AudioRCA type line or microphone-in, line-out
- SCSI-3†One 68-pin female is included with external DAT drive kit

Electrical

- Power110 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 Weight14.50 kg (31.90 lbs)
- Shipping Weight16.93 kg (37.25 lbs)

Environmental

- Operating Temperature5° to 40° C (41° to 104° F)
- Humidity5% to 95% RH (non-condensing)
- Storage Conditions-10° to 60° C (14° to 140° F)
- Maximum Operating Tilt15°
- Operating Altitude0 to 3,048 m (0 to 10,000 ft)

Regulatory

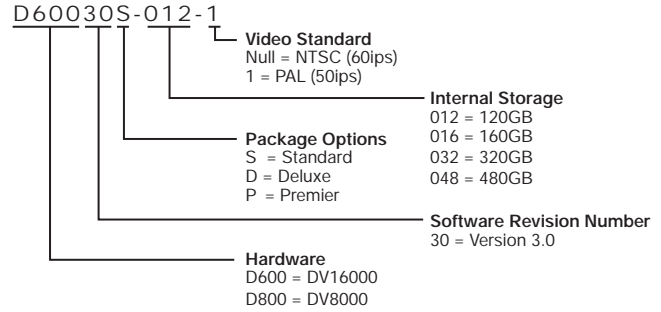
- EmissionsFCC 15b, Class A
EN55022 (1995) Class A
EN61000-3-2 (1995)
EN61000-3-3 (1995)
- ImmunityEN50130-4 (1996)
- SafetyEN60950 Amendments 1, 2, and 3
UL1950, CUL1950, Third Edition

Accessories

- RDVNC-30Network Client
- ESM480, ESM640480 GB or 640 GB Extended Storage Module (up to 3 per Intellex unit)
- DVRM-01Intellex Front Rack Mount Kit
- UHRM09Intellex BNC Rack Mount Extension Kit
- RDVSPK01Speakers
- RDVEXP011 to 4 Text Data Port Expander
- RDVFLP01USB Floppy Drive
- RDVDAT01SCSI External DAT Drive *
- RDVCDRX01External USB CD-RW

* Includes SCSI Interface Card

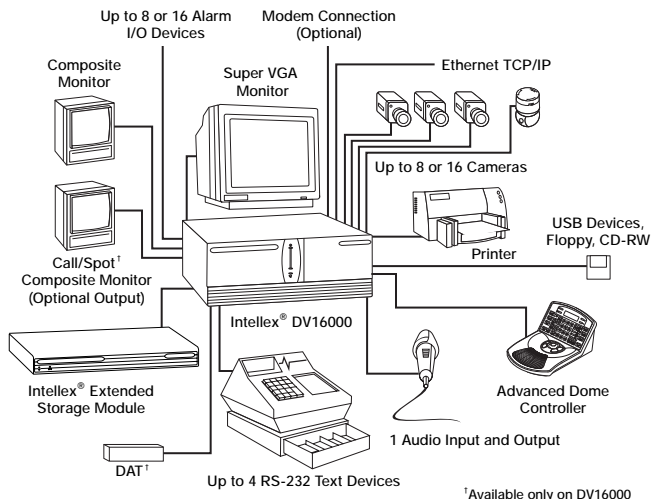
PRODUCT CODE CONFIGURATION



Intellex Packages	Standard	Deluxe	Premier
Software Features			
Windows® 2000 Operating System	•	•	•
Multi-channel playback	•	•	•
8 or 16 video input and output channels *	•	•	•
Search based on date, time, camera, alarm	•	•	•
Record up to 60 ips (NTSC) 50 ips (PAL) (DV8000)	•	•	•
Record up to 120 ips (NTSC) 100 ips (PAL) (DV16000)	•	•	•
Control Domes from Network Client (through AD switches and the Touch Tracker)*	•	•	•
View Live video at Network Client	•	•	•
Download recorded video to Network Client	•	•	•
Image enhancement tools	•	•	•
Image printing capabilities	•	•	•
Export images to floppy	•	•	•
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	•	•	•
Individual camera scheduling (record all, alarmed recording, etc.)	•	•	•
Alarm quality and sensitivity settings	•	•	•
Scheduled archiving to external DAT (external SCSI DAT available as RDVDAT01)†	•	•	•
Export support on Intellex with player download capabilities to CD-RW (CD-RW hardware not included in Standard Package)	•	•	•
One license of Network Client Remote Management Software	•	•	•
Support for remote Smart Search		•	•
Support for remote Intellex configuration and management		•	•
Single channel of live and recorded audio			•
Single channel RS-232 text recording (expandable to 4 with additional hardware)			•
Text based searching			•
Support for Remote text based searching			•
Hardware Features			
120 to 480 GB storage space	•	•	•
Two monitor outputs (one analog, one SVGA)	•	•	•
CD-ROM drive	•	•	•
Network Interface (TCP/IP Ethernet)	•	•	•
8 or 16 alarm inputs and outputs	•	•	•
Internal CD-RW with export support on Intellex with player download capabilities	•	•	•
Interface for external storage (FireWire)	•	•	•
56k modem (ISDN in Europe, PSTN in rest of world)	•	•	•
3rd monitor output (analogue call/spot monitor)†			•
1 to 1 USB to RS-232 converter (to allow for simultaneous use of Touch Tracker and one channel of text)			•

* Outputs available only on DV16000
 † Available only on DV16000
 * Requires Touch Tracker, AD168, AD1024, or MP48

BASIC SYSTEM DIAGRAM



† Available only on DV16000