

## Intellex Digital Video Management Systems

### Features That Make a Difference:

- Gain the ability to multiplex, detect alarms and events, record video, audio and text, and much more
- Set dome presets, patterns and configurations right from the Intellex GUI
- Search for specific clips using video analysis tools and advanced text
- Operate Intellex like a virtual matrix via Network Client<sup>1</sup> with CCTV keyboard-based camera control and an expanded capacity to stream video simultaneously from multiple cameras
- React faster to potential emergencies with immediate email notification of system events and alarms
- View recorded video in streaming playback mode on Network Client without downloading the video onto that PC
- Respond to events with alarm-triggered dome positioning
- Record higher frame rates per second for certain cameras and assign the remainder to less critical cameras
- Combine video clips in Network Client into a single video incident storyboard<sup>2</sup>
- Store over 9 times more video than MPEG-4 and MJPEG-based systems using patented American Dynamics Active Content Compression (ACC) technology
- Use 3rd party applications—such as access control from Software House and Kantech as well as video forensics, virtual matrix, remote monitoring and more—integrated with Intellex via the powerful API
- Supports up to 20 simultaneous Client connections (Ultra, DVMS, IP)



Monitor sold separately.

### Intellex Ultra (available with 16 channels)

Intellex Ultra is a reliable, high performance platform that captures higher resolution, de-interlaced images (4CIF, 480 ips)<sup>3</sup> without compromising the capability to record full motion video. Its 3U chassis saves expensive rack space, making it an ideal solution for applications like casinos or government facilities with limited space for security equipment. For ultimate flexibility and security, Intellex Ultra has up to four front-accessible, swappable 3.5 inch hard drive bays which can optionally be used in a RAID5 configuration. Plus, an industry first, separate, solid-state, embedded system drive means no moving parts to wear out or fail.

### Intellex IP (up to 16 network video streams)

Intellex IP supports IP cameras with performance of up to 480 ips at 1CIF and 240 ips at 4CIF. Intellex IP integrates seamlessly with existing Intellex systems, as well as analog cameras when used with the American Dynamics VideoEdge IP Encoder. The ability to use existing IT network cable further reduces total cost of ownership.



(1) Requires v4.0 or higher.

(2) Sold separately.

(3) All ips measurements reflect NTSC format. 120 ips NTSC = 100 ips PAL.

### Intellex DVMS (available with 8 and 16 channels)

The original digital video management system, Intellex DVMS has been leading the market since 1997. Intellex DVMS offers a 16-channel system that records up to 240 ips at 4CIF. Intellex DVMS is offered in a desktop or rack mount chassis with Standard, Deluxe and Premier packages. This means simplified packaging for easier ordering, maintenance and configuration. And because Intellex DVMS is networkable and easily integrates with other equipment and software applications, it's a cost-effective solution for many new and existing applications.



### Intellex LT (available with 4, 8 and 16 channels)

Intellex LT delivers the key Intellex features in an economical package, providing the best solution for small retail stores, health care facilities and small offices. It can store more than 900 hours of video and supports as many as five simultaneous Network Client users.

# choose a dvr that is right for you

## DVR COMPARISON TABLE

|  | Intellex Ultra<br>(Premier)  | Intellex DVMS<br>(Standard, Deluxe & Premier)  | Intellex LT  | Intellex IP<br>(Premier)   |
|--|--|--|--|--|
| <b>Maximum Images per Second (NTSC/PAL):</b>                   |  |  |  |  |
| 4CIF   | 480/400  | 240/200  | 120/100  | 240/200  |
| 2CIF   | 480/400  | 480/400  | 240/200  | 240/200  |
| 1CIF   | 480/400  | 480/400  | 480/400  | 480/400  |
| <b>Storage Capacity</b>  | 1.0 TB, 2.0 TB,<br>3.0 TB, 4.0 TB (RAID5 3.0 TB)   | 250 GB, 500 GB, 1.0 TB, 1.5 TB <sup>4</sup>  | 250 GB, 500 GB   | 500 GB, 1.0 TB   |
| Windows® XP Pro  | Yes  | Yes  | Yes  | Yes  |
| <b>Record Mode</b>   | Linear or Circular/Continuous  | Linear or Circular/Continuous  | Linear or Circular/Continuous  | Linear or Circular/Continuous  |
| <b>Pre-Alarm Recording</b>                                     | Yes (up to 5 minutes)  | Yes (up to 5 minutes)  | Yes (up to 60 seconds)   | Yes (up to 5 minutes)  |
| <b>Alarm Indexing</b>  | Yes (15 minutes)   | Yes (15 minutes)   | No   | Yes (15 minutes)   |
| <b>Alarm/Event Notification:</b>                               |  |  |  |  |
| Remote   | Yes (via Network Client)   | Yes (via Network Client)   | Yes (via Network Client)   | Yes (via Network Client)   |
| Local  | Yes  | Yes  | Yes  | Yes  |
| Email  | Yes  | Yes  | Yes  | Yes  |
| <b>Video Resolutions Available:</b>                            |  |  |  |  |
| 4CIF (NTSC/PAL)  | 704 x 480/704 x 576  | 704 x 480/704 x 576  | 704 x 480/704 x 576  | 704 x 480/704 x 576  |
| 2CIF   | 704 x 240/704 x 288  | 704 x 240/704 x 288  | 704 x 240/704 x 288  | 704 x 240/704 x 288  |
| 1CIF   | 352 x 240/352 x 288  | 352 x 240/352 x 288  | 352 x 240/352 x 288  | 352 x 240/352 x 288  |
| <b>Text Insertion (Via Serial Port)</b>                        | Yes - 16 channels  | Yes <sup>5</sup> (up to 8 channels)  | Yes <sup>5</sup> (up to 8 channels)  | Yes - 16 channels  |
| <b>Video Analysis Tools (Size, Speed, Direction of Motion)</b> | Yes  | Yes, Premier Edition only  | No   | No   |
| <b>Smart Search</b>  | Yes  | Yes  | Yes  | Yes  |
| <b>Custom Schedule/Weekends</b>                                | Yes, with IntellexCord   | Yes, with IntellexCord   | Yes, with IntellexCord   | Yes, with IntellexCord   |
| <b>Multi-Screen Playback</b>                                   | Yes  | Yes  | No   | Yes  |
| <b>Covert Camera</b>   | Yes  | Yes  | Yes  | Yes  |
| <b>Dome Control</b>  | Via Network Client, Browser Client or Intellex GUI (via ADTT16E, ADACSNET, MP48, MP168, MP1024, MP3200 or other third party switchers) | Via Network Client, Browser Client or Intellex GUI (via ADTT16E, ADACSNET, MP48, MP168, MP1024, MP3200 or other third party switchers) | Via Network Client, Browser Client or Intellex GUI (via ADTT16E, ADACSNET, MP48, MP168, MP1024, MP3200 or other third party switchers) | Via Network Client, Browser Client or Intellex GUI (via ADTT16E, ADACSNET, MP48, MP168, MP1024, MP3200, other third party switchers or any IP 422-compatible device) |
| <b>Alarm-Triggered Camera Action</b>                           | Yes  | Yes  | Yes  | Yes  |
| <b>User-Defined Matrix &amp; Dome Control Camera Handler</b>   | Yes  | Yes  | Yes  | Yes  |
| <b>Activity Log (Who, When, What)</b>                          | Yes  | Yes  | Yes  | Yes  |
| <b>3rd Party Integration via API</b>                           | Yes  | Yes  | Yes  | Yes  |
| <b>Chassis Configuration</b>                                   | 3U, Desktop/Rack Mount   | 4U, Desktop or Rack Mount <sup>6</sup>   | 4U, Desktop or Rack Mount <sup>7</sup>   | 1U, Rack Mount   |
| <b>Alarm Quality &amp; Sensitivity Settings</b>                | Yes  | Yes  | Yes  | Yes  |
| <b>Camera-Selectable Frame Rate</b>                            | Yes  | Yes  | Yes  | Yes  |
| <b>One-Click Clip Export</b>                                   | Yes, CD-RW/DVD-RW  | Yes, CD-RW/DVD-RW <sup>8</sup>   | Yes, CD-RW   | Yes, CD-RW/DVD-RW  |
| <b>Extended Storage Devices</b>                                | Yes  | Yes  | Yes  | Yes  |
| <b>Support for Remote Configuration &amp; Management</b>       | Yes  | Yes  | Yes  | Yes  |
| <b>NTSC/PAL Toggle</b>   | Yes  | Yes  | Yes  | N/A  |

(4) 250 GB and 500 GB are available in Standard Edition; 500 GB, 1.0 TB and 1.5 TB (rack mount) are available in Deluxe and Premier Editions.

(5) Premier Edition only.

(6) Rack mount is only available in Deluxe and Premier Editions.

(7) Accessory Kit is required for rack mount, ordered separately.

(8) CD-RW is only available in the Standard and Deluxe Editions; DVD-RW is only available in the Premier Edition.

# features

## More Than a Digital Recorder

American Dynamics offers the most comprehensive range of digital video management products on the market. From smaller installations (Intellex LT) to mid-size applications (Intellex DVMS) and now to more demanding applications that require higher resolution and performance (Intellex Ultra), there is a solution for any situation. Plus, we provide the flexibility of IP-based video surveillance (Intellex IP) and every platform can be remotely managed using Network Client Remote Management Software. But Intellex does more than just record. You can simultaneously record, play back and archive video, text and audio while using sophisticated search functions.

## Simple, Intuitive User Interface

The Intellex user interface is extremely easy to use, no matter what your skill level. Access all operations using one-click buttons, pull-down menus, adjustable sliders and tabbed screens. The GUI is designed to be used with 4:3 aspect ratio monitors as well as with widescreen monitors.

## Save Time and Money with Recording at Its Best

Intellex gives you an accurate representation of specific transactions by recording RS-232 text data streams from devices like cash registers and ATMs. It displays this information side by side with time-synchronized video in addition to the related audio. Efficiently search the transaction database or schedule recording by specifying the exact text or transaction criteria.

## Record Only the Events You Need

Use IntelleCord to conserve space on your hard drive by recording only events that trigger an alarm at times that matter. You can set triggers for alarms generated electronically within Intellex based on: 1) any motion 2) crossing a perimeter 3) changes in light and 4) specific motion exceptions. You can also set triggers for any external wired alarm that provides a contact closure.

Additionally, you can configure settings to automatically re-position cameras in response to an alarm. IntelleCord enables you to customize the settings for each camera on your system and thereby optimize security and record duration.

Intellex retains up to five minutes of pre-alarm video when you set IntelleCord to record on alarm only. Unlimited pre-alarm video is available when you set Intellex to record continuously, the first 15 minutes of which can be conveniently retrieved via a pre-alarm video index.

## Instantly Find Video Based on Motion Criteria

Use Smart Search to filter through hours of video to find clips fast. With the click of a mouse, you'll be able to view every instance when someone crossed a perimeter, turned lights on and off, or moved or drove a vehicle in the wrong direction at an inappropriate speed, and more. For motion exception, simply specify the type of motion that you are looking for—speed, direction, size of the moving object—and Intellex will find it for you.

## Easily Share Incidents

The integrated CD-RW or DVD-RW allows you to save video to a standard recordable CD or DVD. This is ideal when you need to provide the authorities, vendors or other non-security personnel with video, audio, and text data of incidents to view on their own PC<sup>9</sup>. The Intellex Player software may be added to the CD or DVD as well so no additional software needs to be purchased to view the video. Network Client provides the ability to concatenate exported video clips and play a series of related clips, creating an "incident storyboard" that can be used for video evidence or auditing.

## Play Back Video from any External Source on any Intellex

View video from any external source you choose – CD, DVD, network drive, or a flash drive directly from Intellex. Simply click on the "External" button, select the appropriate drive, and view stored video.

## Integrity of Evidence You Can Trust

The Intellex recording format gives each image a unique identification "stamp". Even though the file structure is PC-compatible, the original video images are virtually impossible to alter or modify. By ensuring authenticity in this way, Intellex protects the court admissibility of your video evidence.

## Easy to Set up and Operate

Intellex not only reduces equipment expenses and investigation time, it also features simple on-screen menus that make training and operation intuitive and easy. Customize access rights for multiple operators with passwords. Choose between NTSC and PAL. The removable BNC panel on 16-channel models and camera termination via software provide hassle-free camera connections. Intellex can be configured to provide alarm notification in the event of a hard drive failure, ensuring your critical events are always captured. Add swappable<sup>10</sup> hard drives on Intellex Ultra and you've got a highly reliable system that's easy to use and maintain.

<sup>(9)</sup> Sold separately.

<sup>(10)</sup> Hot-swap available in RAID configuration. Base units are simple-swappable.

## Remote Accessibility Offers the Most Flexible Viewing

With Browser Client, you can host and customize your own website to provide live viewing of Intellex video through a standard browser interface. Multiple clients can access and even control domes remotely through Browser Client, which is available at no charge. If more advanced operations are required, Network Client allows you to remotely configure Intellex, select video segments by time, date or alarm, use Smart Search, view up to 64 simultaneous live video segments and have virtual matrix capability<sup>11</sup> when used with a CCTV keyboard. Save, annotate, and organize copied video into incident folders to aid with investigations. View recorded video on Network Client without downloading the video onto that PC or export video clips to an .AVI file to play on any Windows-based PC. For more information on these and other Intellex tools, such as Intellex Archive Manager and Intellex Policy Manager, refer to our separate Intellex Management Suite data sheet.

## Intellex Web Server Provides Live Video Over the Web

The Intellex web server component allows you to view live video via a web page at 4CIF. Users enter a password to log on to the server, which ensures that only authorized personnel access the video. In addition, users have PTZ control of dome cameras from the web server.

## Optimize Settings to Fit Your Specific Needs

Record duration, or the quantity of images that can be recorded on 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. Choose from super, extended record, and normal settings to balance image quality against record duration. For longer record durations, simply reduce your resolution settings. Use Auto Rate mode with Intellex Ultra, DVMS, and LT to set equal frame rates for each camera or adjust the recording frame rate per camera.

## Customize Views with Multi-Camera Playback and Display

Select live and play back displays for any camera in any position in 1x1, 2x2, 3x3, or 4x4 picture formats. In live camera display and play back, 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.

## Take a Closer Look for Superior Analysis

Choose any live or recorded picture area and zoom in 2X to 16X for a closer look. Digitally enhance the color, contrast and sharpness of events. Easily navigate or move around in the enlarged picture for a quick, magnified look at all details.

## Respond More Quickly for Better Security

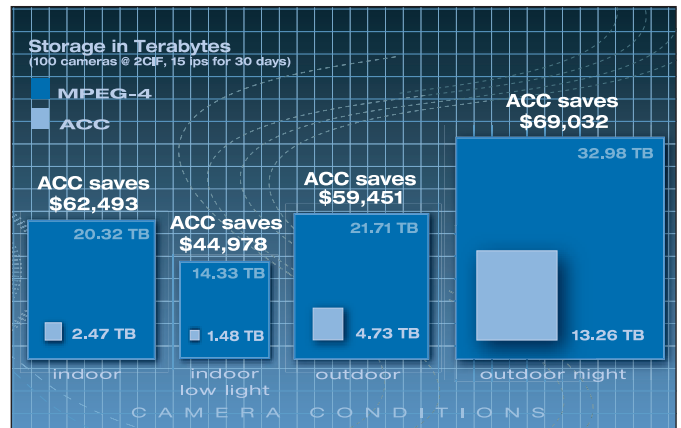
Respond to potential emergencies more quickly with automated email notification. You can configure specific types of events that register on your Intellex (such as drive failure) and cameras (such as motion detection alarms) as email triggers that generate and send a message to a pre-defined distribution list.

## Upgradable, Expandable Platforms Provide Room to Grow

Keep your system up-to-date with software upgrades easily installed from digital media or via the web. In addition, each Intellex DVMS and LT system can connect to up to three Extended Storage Modules (ESM) to expand the local storage capacity. Intellex Ultra provides up to 4.0 TB of internal storage capacity and supports SAN and NAS devices including the American Dynamics RAID Storage System for extended storage, as does Intellex IP.

## Best Video Compression in the Industry Saves Significant Space, Money and Bandwidth

Unlike MPEG-4 and MJPEG, the patented American Dynamics Active Content Compression (ACC) technology was developed specifically for security applications and can differentiate between true motion and video noise. This allows images to be compressed into files that are one ninth the size they would be if compressed with MPEG-4 technology, which means you will use far less disk space. In fact, images compressed using ACC can save you up to \$69,000<sup>12</sup> over a 30-day period when you factor in the additional space you would have to purchase for storing MPEG-4 images.



(11) Sold separately.

(12) Estimated savings with ACC compression is based on the industry average of \$3,500.00 (USD) per TB.

# take a closer look

## Secure Your System with Covert Cameras and Activity Logs

Intellex lets you configure up to 15 cameras for local covert operation, restricting their use to only those who are authorized. To everyone else, covert cameras register on the status screen as being disconnected. For additional security, monitor every action performed on your Intellex. Activity logging can list the user name of each person who uses the system along with the date, time, and task they completed.

## Intellex Management Software and Accessories

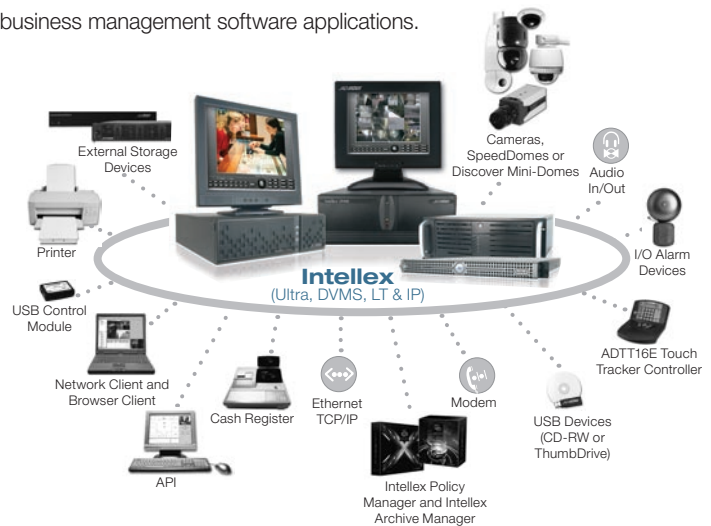
From Network Client Remote Management Software to RAID Storage Systems, American Dynamics offers a full suite of accessories to enhance the power of your Intellex digital video management system. For complete descriptions and model numbers, refer to the Intellex Management Suite and Intellex Accessories data sheets on our website.

### Model Number Configuration for Intellex IP

|               | BRAND    | FAMILY                                | PLATFORM               | STORAGE                             |
|---------------|----------|---------------------------------------|------------------------|-------------------------------------|
| EXAMPLE<br>IP | AD<br>AD | D<br>Digital Video Management Systems | IP<br>IP = IP platform | 050<br>050 = 500 GB<br>100 = 1.0 TB |

## Basic System Diagram

Whatever platform you choose, Intellex lets you customize your system. Add PTZ cameras and SpeedDome programmable dome cameras and operate them with the ADTT16E Touch Tracker Controller. Display video on a variety of monitors, integrate I/O alarm devices, stream in audio or ASCII text from cash registers. Even add a printer. Need more storage capacity? Install up to three Extended Storage Modules (ESMs) for each Intellex DVMS or LT or use standard SAN, NAS, or DAS devices for Intellex Ultra and Intellex IP. Want to integrate your video with third party software? Intellex API provides a powerful yet easy to use set of programming interfaces that enable interoperability with access control and business management software applications.



### Model Number Configuration for Intellex Ultra, DVMS and LT platforms

|                  | BRAND    | FAMILY                                | CHANNELS   | CHASSIS  | PLATFORM  | FEATURES                                       | VIDEO CARD                   | STORAGE   |
|------------------|----------|---------------------------------------|--|--|---|--|------------------------------|---|
| EXAMPLE<br>ULTRA | AD<br>AD | D<br>Digital Video Management Systems | 6<br>6 = 16 channels                                     | 00<br>00 = Desktop/<br>Rack Mount configurable | UL<br>UL = Ultra<br>UR = Ultra RAID <sup>(13)</sup> | P<br>P = Premier                               | V<br>V = Enhanced Video Card | 100<br>100 = 1 TB<br>200 = 2.0 TB<br>300 = 3.0 TB<br>400 = 4.0 TB                   |
| EXAMPLE<br>DVMS  | AD       | D                                     | 6<br>8 = 8 channels<br>6 = 16 channels                   | 00<br>00 = Desktop<br>R0 = Rack Mount          | DV<br>DV = DVMS                                     | S<br>S = Standard<br>D = Deluxe<br>P = Premier | V                            | 025 <sup>(14)</sup><br>025 = 250 GB<br>050 = 500 GB<br>100 = 1.0 TB<br>150 = 1.5 TB |
| EXAMPLE<br>LT    | AD       | D                                     | 4<br>4 = 4 channels<br>8 = 8 channels<br>6 = 16 channels | 00<br>00 = Desktop                             | LT<br>LT = LT                                       | P  | V                            | 025<br>025 = 250 GB<br>050 = 500 GB   |

(13) RAID configuration only available with 3.0 TB storage.

(14) 250 GB and 500 GB models are available in Standard Edition only; 500 GB and 1.0 TB models are available in Deluxe and Premier Editions; 1.5 TB model is available in Deluxe and Premier with rack mount chassis only.

|  | Intellex Ultra   | Intellex DVMS  | Intellex LT  | Intellex IP                                 |
|--|--|--|--|---|
| <b>General</b>                         |  |  |  |   |
| Drive Type                             | Front Access SATA                                      | Internal SATA  | Internal SATA  | Internal SATA                               |
| Exporting                              | CD-RW or DVD-RW  | CD-RW or DVD-RW <sup>15</sup>                          | CD-RW  | CD-RW or DVD-RW                             |
| Video Standard                         | NTSC/PAL   | NTSC/PAL   | NTSC/PAL   | N/A   |
| Video Inputs                           | 16   | 8 (non-looping) or 16 (looping)                        | 4 & 8 (non-looping) or 16 (looping)                    | Up to 16 network video streams              |
| Main Monitor Output                    | SVGA, DVI  | SVGA, DVI  | SVGA, DVI  | SVGA, DVI                                   |
| Analog Output                          | Call/Spot <sup>16</sup> , Live/Play Back <sup>17</sup> | Call/Spot <sup>16</sup> , Live/Play Back <sup>17</sup> | Call/Spot <sup>16</sup> , Live/Play Back <sup>17</sup> | N/A   |
| Camera Looping Outputs                 | 16 with optional looping panel                         | Standard on 16-channel system                          | Standard on 16-channel system                          | N/A   |
| Alarm Inputs and Outputs <sup>18</sup> | 16 (toolless)  | 8, 16  | 4, 8, 16   | 16 via network device                       |
| Single Channel Audio <sup>19</sup>     | Included   | Premier  | Included   | 5.1 USB adapter included                    |
| IEEE 1394 (FireWire)                   | N/A  | Included   | Included   | Optional                                    |
| Network                                | 2x gigabit   | 1x gigabit   | 1x gigabit   | 2x gigabit                                  |
| USB (front/back)                       | 2/2  | 2/6  | 2/6  | 2/2   |
| Serial Port (RS-232) <sup>20</sup>     | 1x DB 9  | 1x DB 9  | 1x DB 9  | 1x DB 9                                     |
| Visual Indicators                      | Power, alarm, record, disk available, disk activity    | Power, alarm, record                                   | Power, alarm, record                                   | Power, disk activity                        |
| Mouse                                  | PC mouse included as standard                          | PC mouse included as standard                          | PC mouse included as standard                          | PC mouse included as standard               |
| Printer                                | PC printer compatibility <sup>21</sup>                 | PC printer compatibility <sup>21</sup>                 | PC printer compatibility <sup>21</sup>                 | PC printer compatibility <sup>21</sup>      |
| <b>Physical</b>                        |  |  |  |   |
|  | Desktop/Rack Mount Configurable                        | Desktop  | Desktop only   | Rack Mount only                             |
| Dimensions (H x W x D)                 | 130 x 429 x 546 mm (5.125 x 16.895 x 21.5 in)          | 172 x 432 x 464 mm (6.75 x 17.0 x 18.25 in)            | 172 x 432 x 464 mm (6.75 x 17.0 x 18.25 in)            | 43 x 447 x 546 mm (1.68 x 17.60 x 21.50 in) |
| Unit Weight                            | 17.3 kg (38 lbs)                                       | 14.50 kg (31.90 lbs)                                   | 14.50 kg (31.90 lbs)                                   | 11.80 kg (26 lbs)                           |
| Shipping Weight                        | 25 kg (55 lbs)   | 16.93 kg (37.25 lbs)                                   | 16.93 kg (37.25 lbs)                                   | 18.14 kg (40 lbs)                           |
|  |  | Rack Mount   |  |   |
| Dimensions (H x W x D)                 |  | 175 x 432 x 521 mm (6.875 x 17.0 x 20.5 in)            |  |   |
| Unit Weight                            |  | 20.39 kg (44.95 lbs)                                   |  |   |
| Shipping Weight                        |  | 27.24 kg (60.05 lbs)                                   |  |   |

**Common Specifications for Intellex Digital Video Management Systems**

| Environmental              |                                  | Regulatory <sup>22</sup> |                                |
|----------------------------|----------------------------------|--------------------------|--------------------------------|
| Operating Temperature      | 5° to 35°C (41° to 95°F)         | Emissions                | FCC 15b, Class B               |
| Humidity                   | 5% to 95% RH (noncondensing)     |                          | EN55022 (1995) Class A         |
| Storage Conditions         | -10° to 60°C (14° to 140°F)      |                          | EN61000-3-2 (1995)             |
| Maximum Operating Altitude | 3,048 m (10,000 ft)              |                          | EN61000-3-3 (1995)             |
|                            |                                  | Immunity                 | EN50130-4 (1996) <sup>23</sup> |
| <b>Electrical</b>          |                                  | Safety                   | UL 60950-1                     |
| Power                      | 100-240 VAC, 50/60 Hz, 3.0/1.5 A |                          | EN 60950-1: 2001+A11           |

(15) CD-RW is only available in the Standard and Deluxe Editions; DVD-RW is only available in the Premier Edition.  
 (16) Call mode displays video from one selected camera in single pane format; spot mode automatically switches from this camera to any alarmed cameras. Available on 16-channel Deluxe and Premier systems only.  
 (17) Live/Play Back composite output can display the same video as your Intellex monitor or display live video only.  
 (18) Two part connector—TTL inputs. Open collector outputs.  
 (19) Jack (3.5 mm).  
 (20) On-board serial port recommended for multiplexer control. Additional serial port available in Premier Edition via USB converter.  
 (21) No parallel port (USB or Ethernet only).  
 (22) Certification available upon request.  
 (23) For Intellex Ultra, a UPS is required to fully comply with EN50130-4.

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