



# Introducing the Linear Video System Family

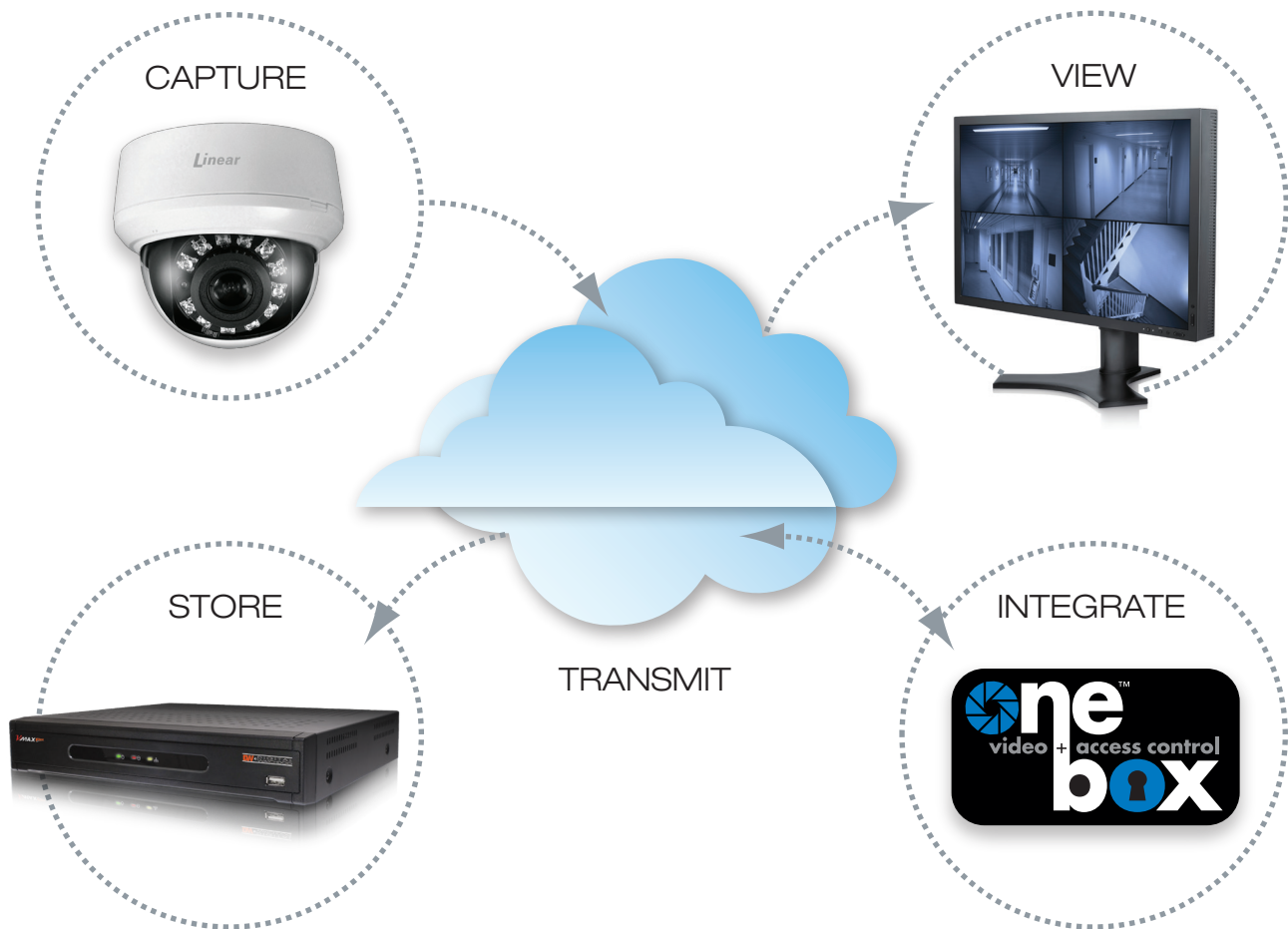
More and more, businesses are relying on video surveillance to enhance safety, reduce theft and deter criminal activity. Linear offers a complete line of scalable video solutions for any budget, and any size installation, indoors or out.

## Linear's solution makes it easy to:

- **Capture** video with Linear high-resolution analog and IP cameras
- **Store** video and images for post-event forensics & record keeping
- **Transmit** video over long distances via simplified wiring
- **View** live and playback recorded video on mobile devices and tablets
- **Integrate** video with access for easier surveillance and control

The Linear Video Family – giving business enterprises the assurance that *seeing is believing*.

## Elements of a Linear Video Eco-System

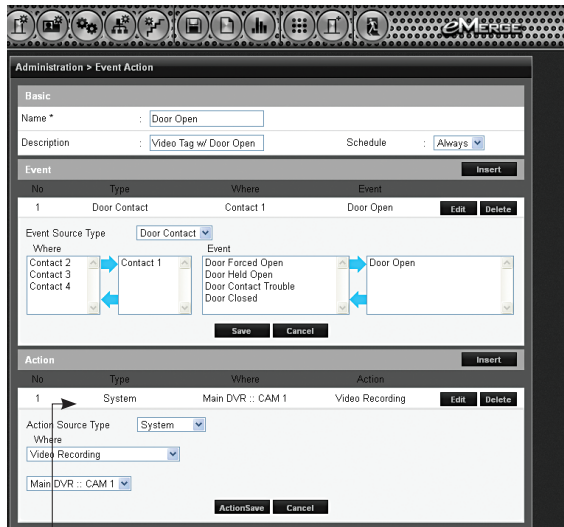


### Access Control System Benefits

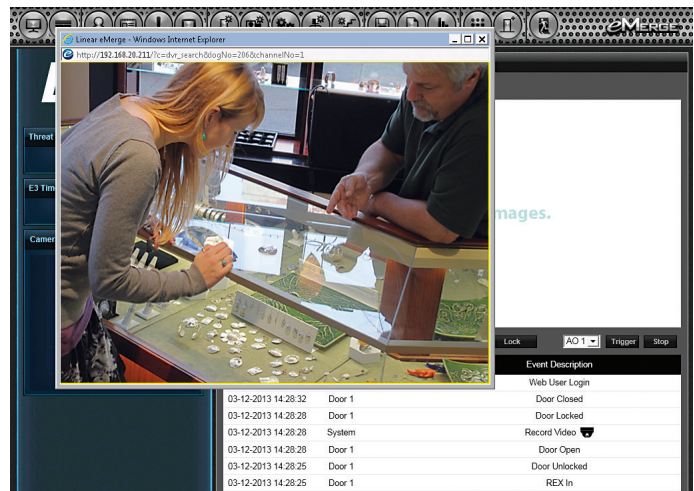
- Fully-scalable 1-4 door entry level access system
- License key upgradeable to more advanced models
- Remote Management Console (RMC) to easily manage multiple sites
- Fully-integrated access control and video user interface
- Live viewing of cameras and access control
- Single login access to both Access and DVR
- All-in-one steel enclosure with battery backup

Time	Device Name	User Name	Event Description
03-12-2013 14:28:32	Door 1		Door Closed
03-12-2013 14:28:28	Door 1		Door Locked
03-12-2013 14:28:28	System		Record Video
03-12-2013 14:28:28	Door 1		Door Open
03-12-2013 14:28:25	Door 1		Door Unlocked
03-12-2013 14:28:25	Door 1		REX In

Run a report or view event with video

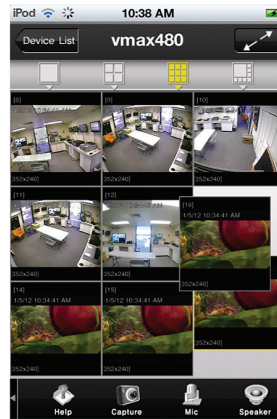


Tag an event with video



### DVR System Benefits

- Advanced H.264 Linux embedded video recording
- Multiplex—Live, Playback, Recording, Network
- 120fps at D1, 240fps at CIF for 8CH
- Web-based client w/ multi-user access
- Simple & free DDNS support
- Supports 3G phones; Free app for Blackberry, iPhone, Android, tablets
- Mac-compatible remote software
- Advanced Client Software (ACS) allows connectivity to multiple e3 OneBox and DW DVRs to view video in one GUI



### Smart Phone Applications

Remote software includes:  
 DW VMAX smart phone apps  
 for iOS (iPhone, iPad),  
 Android and Blackberry.

## e3 OneBox™ Video + Access Control

Access Control systems alone authenticate the user badge, but not the person. Video provides proof of who was using the card reader to enter the premises, but does not limit access.

The e3 OneBox solution integrates video recording with access control, enabling clients to get the whole story, not just individual pieces. OneBox provides a comprehensive set of facts that can be used to manage people, assets and physical plants, all in one enclosure.

Linear's OneBox combines the scalable, web-based eMerge Essential access control system with a full-featured digital video recording system from Digital Watchdog™ (DW), giving businesses the ability to quickly and seamlessly:



- Verify the picture of an individual who gained access to a door, allowing comparison of the analog video image to the photo on file
- Retrieve video to check for tailgating (authorized individuals followed by others who may not be authorized)
- Validate large items being transported, entering or exiting an access control point
- Maintain video about specific events; review video from the prior 30 days to verify who, what, where and when

### Key Features:

#### e3 OneBox™

- e3 GUI supports both access control and video
- Supports video event tagging
- Small footprint, single wall mountable cabinet
- Full suite of DW applications: smart phone, browser and client software
- Linear OneBox Essential Plus™

#### Linear e3-Series eMerge Supports DW Video Integration

- Add video Linear Essential & Elite systems via License-To-Go™ upgrade software key
- e3 GUI supports both access control and video
- Supports Digital Watchdog's 4-, 8- and 16-channel DVRs

*Two Functions – One Box – Saves Time*





## IP Cameras

Linear IP cameras come in an array of resolutions (2-, 3 and 5-megapixels) and provide high quality images in dome, mini-dome, bullet and box enclosures. All Linear IP cameras are ONVIF version 2.2 Profile S compliant, and integrate with smart phones and tablets, enabling freedom to monitor without being tethered to a centralized computer station.



The complete IP camera line is capable of capturing both highlight and shadow detail – including backlit images in the same scene (with WDR enabled).

For indoor applications, Linear indoor dome models feature true day/night, which converts the camera from day to night mode nearly instantly, permitting the cameras to “see” at night and capture grayscale images in almost pure darkness.

### Linear IP Cameras Enable:

- Camera video, data and power can be transmitted over a single network cable
- Simple expansion by leveraging the site’s existing network infrastructure
- Specifiers to replace several analog cameras with a single, multi-megapixel IP camera
- Reduced storage requirements with high-efficiency H.264 video compression
- Easily connects to the QUADStor NVR series for network storage
- Onboard storage to record data even when video recording device is lost

### Features and Options:

- 2, 3, 5 megapixel
- True day/night for low light
- Alarm input and output
- Built-in browser software
- 3-axis lens adjustment (dome)
- PoE or 12 VDC power
- Audio input and output
- MicroSD slot for edge storage
- Smart IR for night vision
- NVR software application

Camera Form Factor:	INDOOR DOME	OUTDOOR VANDAL DOME	MINI DOME-VANDAL	OUTDOOR BULLET	BOX
Model #:	LV-D4-2MDI-312	LV-D4-2MDIV-312*	LV-D2-2MIV-3.6F	LV-B2MDI-312*	LV-CAM-2M*
<b>Description</b>	Indoor Dome Camera, 4", 2MP, Full HD, Day/Night, IR, Micro SD Slot, 3.3-12mm Lens	Vandal Dome Camera, 4", Full HD, IR, Micro SD Slot, 3.3-12mm Lens	Mini Vandal Dome Camera, 2", 2MP, Full HD, IR, Micro SD Slot, 3.6mm Lens	Bullet, Mini, Outdoor Camera, IR, Day/Night, 1080p, SD Card Slot, IP66, 3.3mm-12mm Lens	Fixed Camera, PoE, Audio, SD Card Slot, Full 1080p, Low Light
<b>Housing</b>	Plastic	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy
<b>Vandal Resistant</b>	-	■	■	-	-
<b>Resolution</b>	2MP	2MP, 3MP, 5MP	2MP	2MP, 3MP	2MP, 3MP, 5MP
<b>Max Frame Rate**</b>	30 FPS	30 FPS	30 FPS	30 FPS	30 FPS
<b>Streams</b>	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
<b>WDR</b>	-	■ (3MP)	■	■ (3MP)	■
<b>IR (Max Distance in Feet)</b>	■ (80 FT)	■ (80 FT)	■ (30 FT)	■ (80 FT)	-
<b>Day/Night (IR Cut Filter)</b>	■	■	-	-	-
<b>3-Axis</b>	■	■	-	-	-
<b>Auto-Iris</b>	■	■	-	■ (3MP)	DC Power Lens Sold Separately
<b>Vari-focal Lens</b>	3.3-12mm	3.3-12mm	3.6mm (fixed)	3.3-12mm	DC Power Lens Sold Separately
<b>Video Test Loop out</b>	■	■	■	■	■
<b>IP Rating (IP 66 or Higher)</b>	-	■	■	■	-
<b>Two-way Audio</b>	■	■	■	■	■
<b>ONVIF or PSIA Compliant</b>	ONVIF	ONVIF	ONVIF	ONVIF	ONVIF
<b>Motion Detection</b>	■	■	■	■	■
<b>Edge Storage</b>	■	■	■	■	■
<b>Power - PoE &amp; 12VDC</b>	■	■	■	■	■
<b>Warranty</b>	2 years	2 years	2 years	2 years	2 years

\*Also available in 3MP and 5MP versions (Outdoor Vandal Dome: LV-D4-3MDIV-312, LV-D4-5MDIV-312, Outdoor Bullet: LV-B3MDIV-312, Box: LV-CAM-3M, LV-CAM-5M)

\*\*NOTE: Frame rate maximum is 20 FPS at 3MP and 10 FPS at 5MP.

## QUADStor Video Storage Solutions

For its IP camera line, Linear offers the QUADStor Network Video Recording (NVR) solution for convenient storage of high resolution video. The system can grow with the need for surveillance in a business enterprise. Linear NVRs are fully scalable; multiple units can easily be connected via software.



### Features

#### H-264 Recording and Decoding

- Record 4 IP Cameras at 1080p resolution
- Record 6 IP Cameras at 720p resolution

#### AV Class HDDs for 24/7 operation

- Internal removable 1 to 6 TB HDD (2 bays)
- Embedded GUI with full mouse control
- High Definition output up to 1080p
- Remote view from Web browser
- Live view on mobile iOS/Android devices



See Page 8 for  
Video Storage Solutions Selection Chart

## Transmission Management

Linear has partnered with Vigitron to offer customers a top-tier infrastructure solution for video transmission including:



- Video baluns for transmitting analog signals over Unshielded Twisted Pair (UTP) wiring
- Power-over-Ethernet (PoE) 10/100 Mbps unmanaged midspan is plug-and-play ready, providing full-duplex data transfer
  - Improves network traffic for video
  - Provides the right amount of PoE for IP cameras

## QUADView Software for IP Cameras

When using QUADView software applications or browsing the QUADStor NVR, you can view live, search and playback video previously recorded.

### Mobile Software

With QUADView software, view live video directly from IP cameras on mobile and tablet devices connection. Remote camera setup is also available on mobile devices.

### Browser Software

Compatible with Safari, Chrome, Internet Explorer, Firefox and Opera, and, supports motion detection and edge recording.

### NVR Software

IP cameras include NVR software that supports up to 64 channels.



## Support

Linear video security products are available through a worldwide network of hundreds of distributor locations.

### Technical Service

Linear technical service provides early morning and after hours telephone support for its expanding product line. Application Engineers are ready to assist with technical questions regarding every Linear product, answering questions regarding equipment installation, programming, system design, troubleshooting and inter-system compatibility.

### Video Storage Solutions Selection Chart

Model:	Description:
LV-QSNVR400-1T	QuadStor NVR series 400, H.264, Real-time, 2 HDD Bays, 1 TB HDD
LV-QSNVR400-2T	QuadStor NVR series 400, H.264, Real-time, 2 HDD Bays, 2 TB HDD
LV-QSNVR400-4T	QuadStor NVR series 400, H.264, Real-time, 2 HDD Bays, 4 TB HDD
LV-QSNVR400-6T	QuadStor NVR series 400, H.264, Real-time, 2 HDD Bays, 6 TB HDD

### Warranty

Linear provides the following warranty on video products:

Analog cameras	3 years + 3 months
IP cameras	2 years
NVR	2 years
Monitors & PVMs	1 year
Video Accessories	1 year
Video Software	1 year

For more information, please visit [www.linearcorp.com](http://www.linearcorp.com).  
Specifications subject to change without notice.

