

VIDEO SURVEILLANCE FAMILY

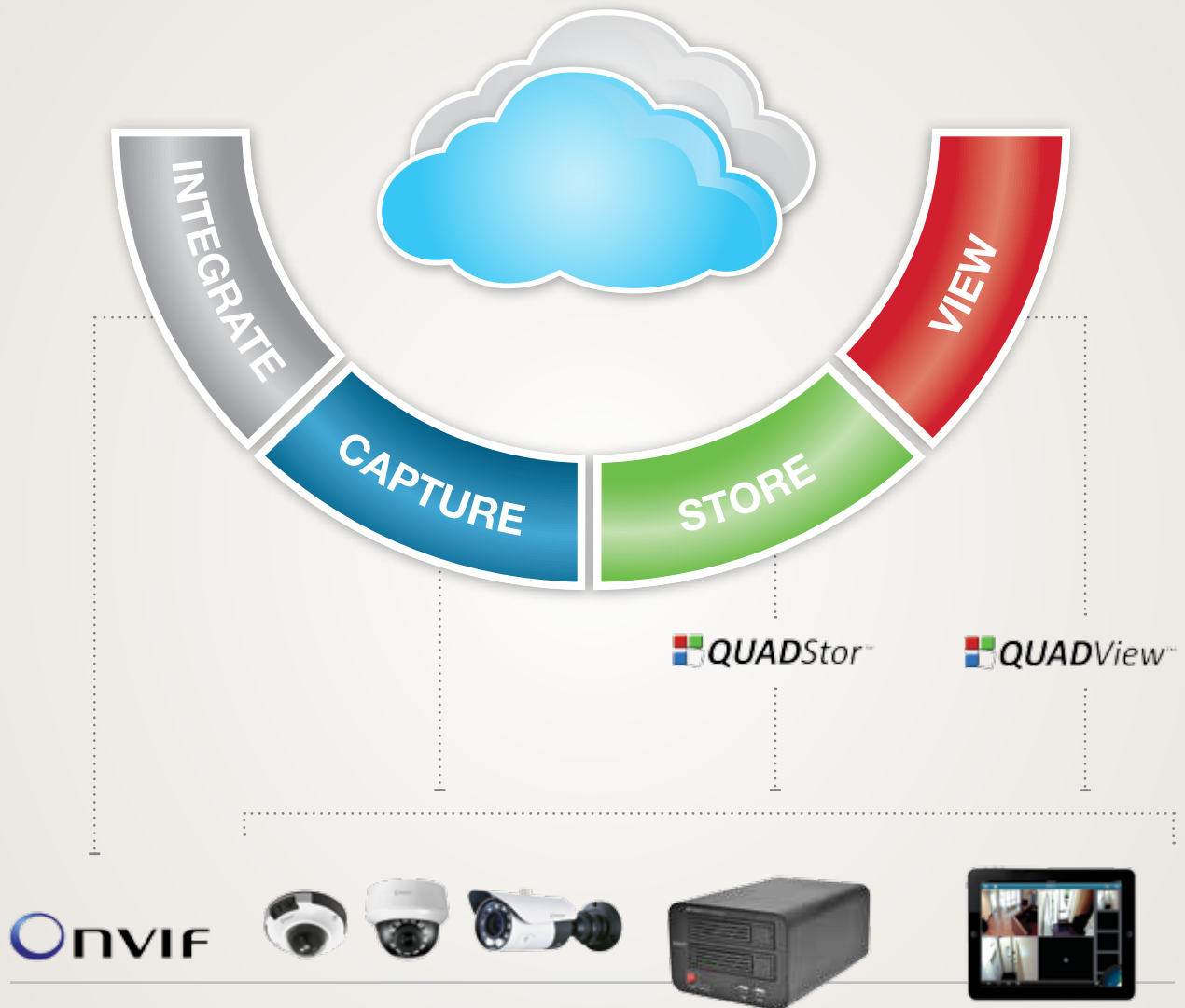


CAPTURE
STORE
VIEW
INTEGRATE

Linear[®]

INTRODUCING THE LINEAR VIDEO FAMILY

More and more, businesses are relying on video surveillance to enhance safety, reduce theft and deter criminal activity.



INTEGRATE
Integrate video with other platforms and software using ONVIF standards.

CAPTURE
The higher the megapixel number, the higher the resolution and larger the video files are to transmit and store. Pick from 2, 3 or 5 MP IP cameras.

STORE
Video is stored on the NVR for playback and forensic purposes. Linear uses Audio Video (AV Class) hard disk drives (HDDs) for optimum storage performance & reliability.

VIEW
View live video or retrieve video from the NVR using a multitude of software applications including iOS® (iPhone® & iPad®), Android®, PC and Mac platforms.





Analog Cameras

Loss prevention professionals can choose from a collection of high-resolution surveillance cameras, backed by one of the security industry's leaders, Linear. These high quality, versatile and cost-competitive cameras offer high resolution (700 TVL) in dome, bullet and box enclosures. With a range of advanced features, Linear analog cameras provide exceptional long-term performance.

Analog cameras are equipped with Sony Effio chipsets for superb color performance. Many are available with digital Wide Dynamic Range (WDR) imaging for installations with challenging lighting issues.

Key Features:

- 700 TVL resolution
- True day/night
- 0.01 lux low light sensitivity
- WDR
- Smart IR
- Vari-focal 2.8-12mm lens
- 3-axis movement (4" Dome)
- OSD joystick control options
- Power: 12VDC & 24VAC

	INDOOR DOME	OUTDOOR VANDAL DOME	OUTDOOR BULLET	BOX
				
MODEL NUMBER:	LV-D4HRDIW-212	LV-D4HRDIWV-212	LV-D4HNWV-212	LV-CAMHRDW
Description	Indoor Dome Camera, 4", 700TVL, Day/Night, IR, Digital WDR, 2.8 to 12mm lens	Vandal Dome Camera, 4", 700TVL, Day/Night, IR, Digital WDR, 2.8 to 12mm lens	Bullet Camera, 700TVL, Day/Night, IR, IP 66, External Zoom/Focus, 2.8-12mm lens	Fixed Camera, 700TVL, Day/Night, Digital WDR, No Lens
Housing	Plastic	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy
Vandal	–	■	■	–
Imager Chip-set	Enhanced Effio-E	Enhanced Effio-E	Enhanced Effio-E	Enhanced Effio-E
Support up to 700TVL	■	■	■	■
WDR	Digital WDR	Digital WDR	Digital WDR	Digital WDR
IR	■	■	–	–
Day/Night (IR Cut Filter)	■	■	–	■
3-Axis	■	■	■	N/A
Auto-Iris	■	■	■	N/A
Vari-focal Lens	2.8-12mm	2.8-12mm	2.8-12mm	N/A
Video Test Loop out	■	■	■	■
IP Rating (IP 66 or Higher)	–	■	■	–
OSD	■	■	■	■
Dual Voltage (24VAC/12VDC)	■	■	■	■
Warranty	3 years + 3 Months	3 years + 3 Months	3 years + 3 Months	3 years + 3 Months

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.

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 during network outage

Key Features:

- 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

	INDOOR DOME	OUTDOOR VANDAL DOME	MINI DOME-VANDAL	OUTDOOR BULLET	BOX
					
MODEL NUMBER:	LV-D4-2MDI-312	LV-D4-2MDIV-312 (2MP) LV-D4-3MDIWW-312 (3MP) LV-D4-5MDIV-312 (5MP)	LV-D2-2MIV-3.6F	LV-B2MDI-312 (2MP) LV-B3MDIWW-312 (3MP)	LV-CAM-2M (2MP) LV-CAM-3MW (3MP) LV-CAM-5M (5MP)
Description	Indoor Dome Camera, 4", 700TVL, Day/Night, IR, Digital WDR, 2.8 to 12mm lens	Vandal Dome Camera, 4", 700TVL, Day/Night, IR, Digital WDR, 2.8 to 12mm lens	Bullet Camera, 700TVL, Day/Night, IR, IP 66, External Zoom/Focus, 2.8-12mm lens	Fixed Camera, 700TVL, Day/Night, Digital WDR, no Lens	Fixed Camera, 700TVL, Day/Night, Digital WDR, no Lens
Housing	Plastic	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy
Vandal Resistant	-	■	■	-	-
Resolution	2MP	2MP, 3MP, 5MP	2MP	2MP, 3MP	2MP, 3MP, 5MP
Max Frame Rate*	30 FPS	30 FPS	30 FPS	30 FPS	30 FPS
Streams	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
WDR	-	■ (3MP)	-	■ (3MP)	-
IR (Max Distance in Feet)	■ (50 FT)	■ (50 FT)	■ (30 FT)	■ (80 FT)	-
Day/Night (IR Cut Filter)	■	■	-	■	-
3-Axis	■	■	-	-	-
Auto-Iris	■	■	-	■ (3MP)	DC Power Lens Sold Separately
Vari-focal Lens	3.3-12mm	3.3-12mm	3.6mm (fixed)	3.3-12mm	DC Power Lens Sold Separately
Video Test Loop out	■	■	■	■	■
IP Rating (IP 66 or Higher)	-	■	■	■	-
Two-way Audio	■	■	■	■	■
ONVIF or PSIA Compliant	ONVIF	ONVIF	ONVIF	ONVIF	ONVIF
Motion Detection	■	■	■	■	■
Edge Storage	■	■	■	■	■
Power - PoE & 12VDC	■	■	■	■	■
Warranty	2 years	2 years	2 years	2 years	2 years

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

QUADStor™ Video Storage Solutions



Linear's QUADStor NVR (Network Video Recorder) is the cornerstone of your modern IP video system.

Key Features:

- H.264 video compression
- Native On-Screen Display with full mouse control
- 1080p high definition output, HDMI or VGA
- Removable HDDs, two drive bays
- Up to 8 TB storage, AV Class HDDs
- Easy-to-use GUI
- Supports Linear 2, 3* & 5* megapixel Cameras
- Free DDNS
- Remote view from web browser
- Free QUADView™ NVR app for iOS® or Android®

Transmission Management



Linear has partnered with Vigtron to offer customers a top-tier infrastructure solution for video transmission.

Key Features:

Mid Spans: Provides IEEE 802.3 FA/AT compliant Power-over Ethernet (PoE) for up to 16 IP cameras. Connect to any network switch and provide up to 37 watts of power per port. Improves network traffic and provides the right amount of power to the IP Cameras.

Video Baluns: Transports NTSC or PAL analog video including PTZ signals over unshielded twisted pair (UTP) wires, point-to-point, for distances up to 750 feet, male or female BNC connectors.

MaxiiCopper Extenders: Extends Ethernet connection up to 3,000 feet over Cat-5 UTP cable, pass-through PoE eliminates the need for remote camera power supply, built-in cable tester, selectable data rate.

QUADView Software for IP Cameras

QUADView software applications connect to Linear IP cameras and the QUADStor NVR enabling you to view live, search and playback video previously recorded.

Key Features:

QUADView Apps: Remotely view and control video from your Apple® iPhone®, iPad® or Android® device, or computer. View video from multiple locations, search and playback video. See who, what, where, anytime you are not there.



Browser Software: Compatible with Safari, Chrome, Internet Explorer, Firefox and Opera.



e3 OneBox™ : Integrated Video and Access Control



E3-Series Access Systems

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 e3-Series eMerge Supports DW Video Integration

- Add video to 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

MODEL NUMBER: LV-D4-2MDI-312

LV-D4-2MDIV-312 (2MP)
LV-D4-3MDIWW312 (3MP)
LV-D4-5MDIV-312 (5MP)

LV-D2-2MIV-3.6F

LV-B2MDI-312 (2MP)
LV-B3MDIW-312 (3MP)

LV-CAM-2M (2MP)
LV-CAM-3MW (3MP)
LV-CAM-5M (5MP)



Linear IP Cameras:

Description	Indoor Dome 2MP	Vandal Dome 2MP, 3MP and 5MP	Mini Vandal Dome 2MP	Mini Bullet 2MP and 3MP	Fixed Camera 2MP, 3MP and 5MP
CAMERA					
Sensor	Sony Exmor™ 1/2.8"	Sony Exmor™ 1/2.8" (2MP) Aptina™ 1/3" WDR CMOS (3MP) Aptina™ 1/2.5" CMOS (5MP)	Sony Exmor™ 1/2.8"	Sony Exmor™ 1/2.8" (2MP) Aptina™ 1/3" WDR CMOS (3MP)	Sony Exmor™ 1/2.8" (2MP) Aptina™ 1/3" WDR CMOS (3MP) Aptina™ 1/2.5" CMOS (5MP)
Max Resolution / FPS	1920 x 1080 / 30 fps	1920 x 1080 / 30 fps (2MP) 2048 x 1536 / 20 fps (3MP) 2592 x 1920 / 10 fps (5MP)	1920 x 1080 / 30 fps	1920 x 1080 / 30 fps (2MP) 2048 x 1536 / 20 fps (3MP)	1920 x 1080 / 30 fps (2MP) 2048 x 1536 / 20 fps (3MP) 2592 x 1920 / 10 fps (5MP)
Min. illumination	0.1 lux @ F1.2 (color); 0 lux, IR LED on	0.1 lux @ F1.2 (color); 0 lux, IR LED on (2MP) 0.5 lux @ F1.2 (color); 0 lux, IR LED on (3MP, 5MP)	0.1 lux @ F1.2 (color); 0 lux, IR LED on	0.1 lux @ F1.2 (color); 0 lux, IR LED on (2MP) 0.5 lux @ F1.2 (color); 0 lux, IR LED on (3MP, 5MP)	0.1 lux @ F1.2 (color); 0 lux, IR LED on (2MP) 0.5 lux @ F1.2 (color); 0 lux, IR LED on (3MP, 5MP)
Day / Night	True day / night with IRC filter	True day / night with IRC filter		True day / night with IRC filter	
IR LEDs	Works with external IR lighting	15 qty Super Flux IR LEDs; 850nm for 30' - 49'	1 qty Super Flux IR LEDs;	10 qty Super Flux IR LEDs; 850nm for 65' - 82' (2MP) 25 qty Super Flux IR LEDs; 850nm for 115' - 131' (3MP)	Works with external IR lighting
Lens	3.3-12 mm vari-focal, IR-corrected, DC auto-iris	3.3-12 mm vari-focal, IR-corrected, DC auto-iris	3.6mm fixed megapixel, IR-coated	3.3-12 mm vari-focal, IR-corrected, DC auto-iris	Accepts standard CS-mount lens (Lens not included)
Video Output	Internal service RCA output w/OSD	Internal service RCA output w/OSD	Service BNC output w/OSD (interconnect cable)	Service BNC output w/ IP OSD via access panel (2MP) Service RCA output w/ IP OSD via access panel (3MP)	Rear-mount BNC output w/OSD
Electronic Shutter			Auto / User set; 1/5 sec - 1/50,000 sec; 50/60 Hz software-selectable		
GENERAL					
Power	12 VDC @ 300 mA / PoE Class 3 (500mA, IR LED ON)	12 VDC @ 520 mA (IR LED On) / PoE Class 3	Service BNC output w/OSD	12 VDC @ 560mA (IR LED On) / PoE Class 3 (2MP) 12 VDC @ 840mA (IR LED On) / PoE Class 3 (3MP)	12 VDC @ 170mA / PoE Class 3
Temperature		Operating: 14°F to 131°F (-10°C to 55°C); Storage: -4°F to 140°F (-20°C to 60°C)			
Operating Humidity		10%–85% RH			
Approvals	CE / FCC / RoHS Compliant	CE / FCC / RoHS Compliant / IP66 / IK10	CE / FCC / RoHS Compliant / IP65 / IK10	CE / FCC / RoHS Compliant / IP66 / IK5	CE / FCC / RoHS Compliant
Product Dimensions	5.1 in x 4.4 in (130 mm x 112 mm)	5.1 in x 4.4 in (130 mm x 112 mm)	in x 2.0 in (100 mm x 53 mm)	2MP: 10.4 in x 2.75 in (265 mm x 69 mm) 3MP: 13.8 in x 4.3 in (377 mm x 110 mm)	5.8 in x 2.5 in (145 x 64 mm)
Product Weight	1.0 lb (0.45 kg)	1.9 lb (0.85 kg)	0.7 lb (0.3 kg)	2MP: 1.5 lb (0.680 kg) ; 3MP: 3.6 lb (1.65 kg)	1.0 lb (0.45 kg)
Package Shipping Dimensions	6.8 in x 6.4 in x 7.2 in	6.8 in x 6.4 in x 7.2 in	7.5 in x 7.1 in x 3.4 in	11.8 in x 6.3 in x 4.7 in	6.5 in x 4.3 in x 3.5 in
Product Shipping Weight	1.6 lb (0.73kg)	2.4 lb (1.1kg)	1.3 lb (0.59kg)	2.3 lb (1.03kg)	1.5 lb (0.7kg)
Alarm I/O	Yes	Yes	No	No	Yes
RS-485	Yes	Yes	No	No	Yes

Features Common to All Linear IP Cameras:

PARAMETERS	NETWORK	AUDIO
Compression:	H.264 high profile (supports baseline profile); MJPEG	1 x RCA input / 1 x RCA output @ 1V line level
Gain Control:	Auto / Fixed (8-102 db)	G.711 A-law, G.711 U-law, RAW, PCM
Quality Setting:	1 - 9 (9=Highest)	
Multi-Streaming:	Three streams at different resolutions; H.264 & MJPEG	
Brightness / Sharpness:	Variable (0-100 / 0-100)	Included Software: *Flash-based browser interface, offering remote live viewing of video, search and playback, configuration of cameras.
Bit Rate (CBR/VBR):	Stream 1: 50 Kbps - 12 Mbps; Stream 2: 10 Kbps - 6 Mbps; Stream 3: (Fixed)	*IP Search Tool to find and change IP Address for easy installation.
Orientation:	Horizontal mirror / Vertical flip	*QUADView app for iOS (Apple iPhone & iPad) and Android devices enables remote live viewing of video, search and playback, configuration of cameras.
Text Overlay:	Time / Date / Camera / Custom OSD	*NMMS software application for transforming a Windows®-based PC into a VMS to record and manage up to 64 IP cameras.
Masking:	5 user-defined masking areas; < 8% of total picture	*Linear cameras also support many common VMS applications compatible with ONVIF 2.2 Profile S.

MODEL NUMBER: LV-D4HRDW-212

LV-D4HRDIW-212

LV-BHRDI-212

LV-CAMHRDW



Linear Analog Cameras:

Description	Indoor Dome 700 TVL	Vandal Dome 700 TVL	Outdoor Bullet Camera 700 TVL	Outdoor Bullet Camera 700 TVL
CAMERA				
Sensor	Sony Effio-E 1/3" CCD	Sony Effio-E 1/3" CCD	Sony Effio-E 1/3" CCD	Sony Effio-E 1/3" CCD
Max Resolution / FPS	>700 TVL (B/W) > 650 TVL (Color)	>700 TVL (B/W) > 650 TVL (Color)	>700 TVL (B/W) > 650 TVL (Color)	>700 TVL (B/W) > 650 TVL (Color)
Min. Illumination	0.01 Lux/F1.2 IRE 40	0.01 Lux/F1.2 IRE 40	0.01 Lux/F1.2 IRE 40	0.01 Lux/F1.2 IRE 40
Day / Night	True day / night with IR cut filter	True day / night with IR cut filter	True day / night with IR cut filter	True day / night with IR cut filter
IR LEDs	12 qty Super Flux IR LED 850nm (33'-49' coverage)	21 qty IR LEDs 850nm (33'-49' coverage)	15 qty Super Flux IR LED 850nm (65' - 82' coverage)	Works with external IR Lighting
Lens	2.8-12mm vari-focal IR-corrected (horizontal field of view angle 85° ~ 30°)	2.8-12mm vari-focal IR-corrected (horizontal field of view angle 85° ~ 30°)	2.8-12mm vari-focal IR-corrected / optional fixed lenses: 4mm, 6mm, 8mm, 12mm	Accepts standard CS-mount lens (Lens not included)
Video Output	BNC CVBS 1V p-p 75Ω			
Electronic Shutter	Auto	Auto 1/60 - 1/120,000 sec	Auto	Auto
OSD FUNCTIONS				
Supported Languages	English, Japanese, German, French, Russian, Portuguese, Spanish, Chinese	English, Japanese, German, French, Russian, Portuguese, Spanish, Chinese	English, Japanese, German, French, Russian, Portuguese, Spanish, Chinese	English, Japanese, German, French, Russian, Portuguese, Spanish, Chinese
Wide Dynamic Range	D-WDR modes, with ATR-EX functions Clip and Scale user settings	D-WDR modes, with ATR-EX functions Clip and Scale user settings	D-WDR modes, with ATR-EX functions Clip and Scale user settings	D-WDR modes, with ATR-EX functions Clip and Scale user settings
Digital Noise Reduction	2d	2d	2d	2d
Display Mirror Flip	Horizontal	Horizontal	Horizontal	Horizontal
Privacy Masking	8 user-defined areas/windows	8 user-defined areas/windows	8 user-defined areas/windows	8 user-defined areas/windows
Backlight	BLC/HLC			
Additional Notes	Privacy masking function includes mosaic effect	Privacy masking function includes mosaic effect	Privacy masking function includes mosaic effect	Privacy masking function includes mosaic effect
GENERAL				
Power	24 VAC/12 VDC @ 140mA (600mA, IR LED On)	24 VAC/12 VDC @ 140mA (600mA, IR LED On)	24 VAC/12 VDC @ 140mA (600mA, IR LED On)	24 VAC/12 VDC @ 140mA
Temperature	Operating: 14°F to 131°F (-10°C to 55°C) Storage: -4°F to 140°F (-20°C to 60°C)			
Operating Humidity	10% – 85% RH			
Approvals	CE / FCC / RoHS Compliant	CE / FCC / RoHS Compliant / IP66 / IK10	CE / FCC / RoHS Compliant / IP66 / IK5	CE / FCC / RoHS Compliant
Product Dimensions	5.0 x 4.75 inch (130 x 112 mm)	5.0 x 4.75 inch (130 x 112 mm)	10.4 x 2.75 inch (265.5 x 69 mm)	5.75 x 2.5 inch (145 x 64 mm)
Product Weight	1.0 lb (0.45kg)	1.9 lb (0.85kg)	1.5 lb (0.68 kg)	1.0 lb (0.45kg)
Pkg. Shipping Dimensions	6.8" x 6.4" x 7.2" (173 x 163 x 183 mm)	6.8" x 6.4" x 7.2" (173 x 163 x 183 mm)	11.8" x 6.3" x 4.7" (300 x 160 x 119 mm)	6.5" x 4.3" x 3.5" (165 x 109 x 89 mm)
Product Shipping Weight	1.8 lb (0.82 kg)	2.4 lb (1.09 kg)	2.3 lb (1.04 kg)	1.5 lb (0.68 kg)

Benefits

ACCESS CONTROL SYSTEM

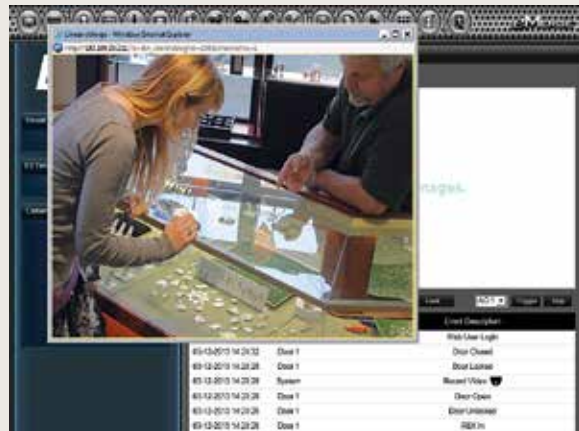
- Fully-scalable 1-4 door entry level access system
- License key upgradeable to more advanced models
- Remote Management Console (RMC) to easily manage multiple sites
- Fully-integrated access control and video user interface
- Live viewing of cameras and access control
- Single login access to both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

Time	Device Name	User Name	Event Description
09-12-2013 14:28:32	Door 1		Door Closed
09-12-2013 14:28:26	Door 1		Door Locked
09-12-2013 14:28:28	System		Recent Video
09-12-2013 14:28:28	Door 1		Door Open
09-12-2013 14:28:26	Door 1		Door Unlocked
09-12-2013 14:28:26	Door 1		RFID In

Run a report or view event with video



Tag an event with video



DVR SYSTEM

- 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.

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.

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
Hard Disk Drives (HDD)	3 years