VIDEO SURVEILLANCE FAMILY

CAPTURE
STORE
VIEW
INTEGRATE
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

<table>
<thead>
<tr>
<th>INDOOR DOME</th>
<th>OUTDOOR VANDAL DOME</th>
<th>OUTDOOR BULLET</th>
<th>BOX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model Number:</td>
<td>LV-D4HRDW-212</td>
<td>LV-D4HRDWW-212</td>
<td>LV-D4HNNW-212</td>
</tr>
<tr>
<td>Description</td>
<td>Indoor Dome Camera, 4”, 700TVL, Day/Night, IR, Digital WDR, 2.8 to 12mm lens</td>
<td>Vandal Dome Camera, 4”, 700TVL, Day/Night, IR, Digital WDR, 2.8 to 12mm lens</td>
<td>Bullet Camera, 700TVL, Day/Night, IR, IP 66, External Zoom/Focus, 2.8-12mm lens</td>
</tr>
<tr>
<td>Housing</td>
<td>Plastic</td>
<td>Aluminum Alloy</td>
<td>Aluminum Alloy</td>
</tr>
<tr>
<td>Vandal</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Support up to 700TVL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WDR</td>
<td>Digital WDR</td>
<td>Digital WDR</td>
<td>Digital WDR</td>
</tr>
<tr>
<td>IR</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Day/Night (IR Cut Filter)</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>3-Axis</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Auto-Iris</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Vari-focal Lens</td>
<td>2.8-12mm</td>
<td>2.8-12mm</td>
<td>2.8-12mm</td>
</tr>
<tr>
<td>Video Test Loop out</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>IP Rating (IP 66 or Higher)</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>OSD</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Dual Voltage (24VAC/12VDC)</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Warranty</td>
<td>3 years + 3 Months</td>
<td>3 years + 3 Months</td>
<td>3 years + 3 Months</td>
</tr>
</tbody>
</table>
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

### Linear IP Cameras Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Indoor Dome</th>
<th>Outdoor Vandal Dome</th>
<th>Mini Dome-Vandal</th>
<th>Outdoor Bullet</th>
<th>Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>LV-D4-2MDI-312</td>
<td>LV-D4-2MOVI-312 (2MP)</td>
<td>LV-D4-2MMDIV-312 (3MP)</td>
<td>LV-D4-5MDIV-312 (5MP)</td>
<td>LV-B2MOVI-312 (2MP)</td>
<td>LV-CAM-2M (2MP)</td>
</tr>
</tbody>
</table>

**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:**
- -
- -
- -
- -
- -

**IR (Max Distance in Feet):**
- (50 FT)
- (50 FT)
- (30 FT)
- (80 FT)
- -

**Day/Night (IR Cut Filter):**
- -
- -
- -
- -
- -

**3-Axis:**
- -
- -
- -
- -
- -

**Auto-Iris:**
- -
- -
- -
- -
- -

**Vari-focal Lens:**
- 3.3-12mm
- 3.3-12mm
- 3.6mm (fixed)
- 3.3-12mm
- 3.3-12mm

**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.*
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 Vigitron 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.

*Playback of 3 and 5 megapixel camera streams recorded on NVR will not playback using QUADView apps, use Browser GUI.*
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
<table>
<thead>
<tr>
<th>Linear IP Cameras:</th>
<th>LV-CAM-2M (2MP)</th>
<th>LV-CAM-3MW (3MP)</th>
<th>LV-CAM-5M (5MP)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sensor</strong></td>
<td>Sony Exmor™ 1/2.8&quot; (2MP)</td>
<td>Sony Exmor™ 1/2.8&quot; (2MP)</td>
<td>Sony Exmor™ 1/2.8&quot; (2MP)</td>
</tr>
<tr>
<td><strong>Max. Resolution / FPS</strong></td>
<td>1920 x 1080 / 30 fps (2MP)</td>
<td>2048 x 1536 / 20 fps (3MP)</td>
<td>2592 x 1920 / 10 fps (5MP)</td>
</tr>
<tr>
<td><strong>Video Output</strong></td>
<td>Service BNC output w/ IP OSD via access panel (2MP)</td>
<td>Service RCA output w/ IP OSD via access panel (3MP)</td>
<td>Rear-mount BNC output w/ OSD</td>
</tr>
<tr>
<td><strong>Gain Control</strong></td>
<td>Auto / Fixed (8-102 db)</td>
<td>Auto / Fixed (8-102 db)</td>
<td>Auto / Fixed (8-102 db)</td>
</tr>
<tr>
<td><strong>Network Protocols</strong></td>
<td>HTTP, TCP/IP, UDP/IP, RTSP, FTP, DHCP, NTP, PPoE, NTP; Unicast and multicast supported</td>
<td>HTTP, TCP/IP, UDP/IP, RTSP, FTP, DHCP, NTP, PPoE, NTP; Unicast and multicast supported</td>
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</tr>
<tr>
<td><strong>Audio Compression</strong></td>
<td>G.711 A-law, G.711 U-law, RAW_PCM</td>
<td>G.711 A-law, G.711 U-law, RAW_PCM</td>
<td>G.711 A-law, G.711 U-law, RAW_PCM</td>
</tr>
<tr>
<td><strong>Brightness / Sharpness</strong></td>
<td>Variable (0-100 / 0-100)</td>
<td>Variable (0-100 / 0-100)</td>
<td>Variable (0-100 / 0-100)</td>
</tr>
<tr>
<td><strong>Text Overlay</strong></td>
<td>Time / Date / Camera / Custom OSD</td>
<td>Time / Date / Camera / Custom OSD</td>
<td>Time / Date / Camera / Custom OSD</td>
</tr>
<tr>
<td><strong>Masking</strong></td>
<td>5 user-defined masking areas; &lt; 8% of total picture</td>
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</tr>
<tr>
<td><strong>Multi-Streaming</strong></td>
<td>Three streams at different resolutions: LV-2M &amp; LV-3M/5M</td>
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<td>Three streams at different resolutions: LV-2M &amp; LV-3M/5M</td>
</tr>
<tr>
<td><strong>RTSP Video</strong></td>
<td>Standard RFC 2326; supports QuickTime / VLC Media playback</td>
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</tr>
</tbody>
</table>
### Linear Analog Cameras:

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Description</th>
<th>Sensor</th>
<th>Max Resolution / FPS</th>
<th>Max Illumination</th>
<th>Day / Night</th>
<th>IR LEDs</th>
<th>Lens</th>
<th>Video Output</th>
<th>Electronic Shutter</th>
<th>Supported Languages</th>
<th>OSD Functions</th>
<th>Digital Noise Reduction</th>
<th>Display Mirror Flip</th>
<th>Privacy Masking</th>
<th>Backlight</th>
<th>Additional Notes</th>
<th>General</th>
</tr>
</thead>
<tbody>
<tr>
<td>LV-DAHDMW-212</td>
<td>Indoor Dome 700 TVL</td>
<td>Sony Effio-E 1/3&quot; CCD</td>
<td>&gt;700 TVL (B/W)</td>
<td>0.01 Lux/F.2</td>
<td>True day / night with IR filter</td>
<td>12 qty Super Flux IR LED 850nm (33’-49’ coverage)</td>
<td>2.8-12mm var-focal IR-corrected (horizontal field of view angle 85° – 30°)</td>
<td>BNC CVBS 1V p-p</td>
<td>Auto</td>
<td>English, Japanese, German, French, Russian, Portuguese, Spanish, Chinese</td>
<td>D-WDR modes, with ATR-EX functions, Clip and Scale user settings</td>
<td>2d</td>
<td>8 user-defined areas/windows</td>
<td>BLC/AGC, Clip and Scale user settings</td>
<td>Privacy masking function includes mosaic effect</td>
<td></td>
<td></td>
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<tr>
<td>LV-DHDMW-212</td>
<td>Outdoor Bullet Camera 700 TVL</td>
<td>Sony Effio-E 1/3&quot; CCD</td>
<td>&gt;700 TVL (B/W)</td>
<td>0.01 Lux/F.2</td>
<td>True day / night with IR filter</td>
<td>15 qty Super Flux IR LED 850nm (33’-49’ coverage)</td>
<td>2.8-12mm var-focal IR-corrected (horizontal field of view angle 85° – 30°)</td>
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<td>LV-DHDMW-212</td>
<td>Vandal Dome 700 TVL</td>
<td>Sony Effio-E 1/3&quot; CCD</td>
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<td>Privacy masking function includes mosaic effect</td>
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<td></td>
</tr>
</tbody>
</table>

### Technical Specifications:

- **Model Number:** LV-DAHDMW-212, LV-DHDMW-212, LV-DHDMW-212, LV-DHDMW-212
- **Power:** 24 VAC/12 VDC @ 140mA (500mA, IR LED On)
- **Operating Humidity:** 10% – 85% RH
- **Approvals:** CE / FCC / RoHS Compliant / IP66 / IK10
- **Product Dimensions:** 5.0 x 4.75 x 2.5 inches (130 x 112 x 63 mm)
- **Product Weight:** 1.0 lb (0.45kg)
- **Pkg. Shipping Dimensions:** 6.8” x 4.6” x 1.2” (173 x 117 x 30 mm)
- **Pkg. Shipping Weight:** 2.4 lbs (1.1 kg)
- **Temperature:** Operating: 14°F to 131°F (-10°C to 55°C) Storage: -4°F to 140°F (-20°C to 60°C)
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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

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:

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Warranty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analog cameras</td>
<td>3 years + 3 months</td>
</tr>
<tr>
<td>IP cameras</td>
<td>2 years</td>
</tr>
<tr>
<td>NVR</td>
<td>2 years</td>
</tr>
<tr>
<td>Monitors &amp; PVMs</td>
<td>1 year</td>
</tr>
<tr>
<td>Video Accessories</td>
<td>1 year</td>
</tr>
<tr>
<td>Video Software</td>
<td>1 year</td>
</tr>
<tr>
<td>Hard Disk Drives (HDD)</td>
<td>3 years</td>
</tr>
</tbody>
</table>