

LSN600 Series

The LEVERAGE 600 Series Surveillance Node (LSN) has been designed from the ground up to offer easy installation that ensures rapid yet stable deployment. These patent pending nodes offer high availability even in the most extreme conditions. All models within the 600 series are Ethernet-ready and offer ruggedized video encoders. Add its highly efficient power regeneration capability and the LSN600 family will provide a smooth and consistent delivery of surveillance video and data.

The LSN600 series is a fully distributed system that offers a highly available surveillance solution with no single point of failure. “Edge Centric” video encoding is performed within each surveillance node and not at a centrally located video server. Recording of surveillance video can take place within the LSN node and/or at the command center. The LSN600 series of street level surveillance units ensures instant and reliable video/audio/data transmissions across any wired, wireless or cellular* network (*Cellular Units require a separate service activation). The power of the LSN600 makes it possible to access live video as needed at any time, anywhere – and on any device.

The LSN600 family is designed and engineered to be a standalone ruggedized video encoder using any NTSC compliant composite video input signal. It can also perform as a scalable component of an enterprise-class surveillance system. The distributed solution is “hot swappable”, allowing nodes to be added and removed without taking the surveillance system offline. The LSN600 family is compliant with all major PTZ manufacturer commands and controls.

The LSN600 family provides quality video (and optional audio on some models) and data over bandwidth connections as restricted as 32Kbps and as robust as 4Mbps. Its primary mission is to transmit video, audio and data across any existing network with minimal cost and limited modifications. Depending on the LSN model, transmission is via wireless or on-board cellular modem. These ruggedized units provide live streaming video at up to 30 frames per second at 4CIF (704 x 480 resolution).



LSN600 Series Key Features

- Standalone operation (patent pending)
- Rugged for any environment
- Extreme temperature operation
- High resolution video at 30fps
- MPEG4 and H.264 video
- Video analytics
- Intelligent video (in collaboration with Leverage Detect)
- Bi-directional MPEG4 audio
- Local video storage at 4CIF/30fps (up to 30 days)
- Low bandwidth video streaming
- Multiple video streams to support LAN and WAN requirements
- Hermetically sealed chassis (some versions)

Overall Specifications

- WiFi/cellular
- 802.11a, MIMO, and 900Mhz wireless
- Fully distributed system configuration
- End to end latency less than 200 msec
- 4CIF 30 frames per second video
- 2 external Ethernet ports
- Compact size/lightweight
- Live video on-alarm or on-demand
- Edge arbitrated PTZ camera operation
- Power on indicator
- Advance replacement program available

Recommended Options

- Audio enablement for specific units (see product table)
- MPEG4 upgrade to H.264
- QuickView Pro: Administration/management dashboard and viewing console for command center
- QuickView MDC: Viewing console for Mobile Data Computer (MDC) or tablet PC while out in the field
- QuickView Mobile: Browser-based viewing for mobile devices (smartphones)
- Leverage Detect modules for automated action response: Event triggered on-alarm camera activation

Video

- Bit Rate: 32 Kbps – 4 Mbps
- Compression: MPEG-4/H.264
- Performance 30FPS/FFR
- Resolution: CIF, 2CIF, 4CIF

Environment

- Temperature: -20/60C
- Relative humidity: 5/95%

Power

- Voltage: 100VAC to 240VAC
(12VDC – 16VDC without AC/DC Power Supply)
- Power consumption: 50 Watts

Dimensions

Without pole mounting bracket:

- 16 ½" L x 15 ¼" W x 5 ½" H
- 15 lbs.

With pole mounting bracket:

- 16 ½" L x 15 ¼" W x 13 ½" H
- 24 lbs

Model Comparison

The following specifications apply to all LSN600 Series models:

- Outdoor NEMA-rated encoder
- Extreme temperature operation
- Ethernet
- Power management
- MPEG-4 and H.264 Video
- Hi Res video at 30FPS
- Low bandwidth video streaming
- Local video storage at 30FPS/4CIF
- Embedded video encoder

The following charts outline model differences:

Ethernet Only Models	600S	602S
NVR (On-board Video Storage)		
Hermetically sealed chassis	•	•
Audio Enabled		•

Cellular modem/router (separate activation required)	610S	611E	612S	613E
NVR (On-board Video Storage)		•		•
Audio Enabled			•	•

Wireless Radio a/b/g single channel	620S	621E	622S	623E
NVR (On-board Video Storage)		•		•
Audio Enabled			•	•

Wireless Radio a/b/g dual channel	630S	631E	632S	633E
NVR (On-board Video Storage)		•		•
Audio Enabled			•	•

Wireless 900 Mhz Radio a/b/g dual channel	640S	641E	642S	643E
NVR (On-board Video Storage)		•		•
Audio Enabled			•	•

MIMO (multiple antenna) smart wireless	650S	651E	652S	653E
NVR (On-board Video Storage)		•		•
Audio Enabled			•	•



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