

## eLumen™ Manager: Servers

The server-based eLumen™ Manager is a dedicated server for a Lutron® GRAFIK 5000™, through GRAFIK 7000™ centralized lighting control systems (CLCS). It is used to support system operation 24/7. This eLumen™ Manager is required for storage of data, for lighting zone controller (LZC) systems, and to run PictureIT™ software. This eLumen™ Manager allows the following operations:

- Centralized, real-time setup and control
- Interfacing to remote clients (up to 50 additional per server; see the Specification Submittal for eLumen™ Manager: Desktop and Laptop Models)
- Up to 3 concurrent client users
- Up to 10 concurrent Picture IT™ users
- Connection to a LAN from its RJ-45 network jack and to the rest of the system through one of its network connections

**Note:** The server must run at all times for proper operation of the system

### Available Models

- EM-A-CMP-S-O: Standard server
- EM-A-CMP-S-T: Standard server with telephone interface
- EM-A-CMP-R-O: Server with RAID
- EM-A-CMP-R-T: Server with RAID and telephone interface
- EM-A-CMP-R-T-K: RAID Rack mount with telephone interface
- EM-A-CMP-R-O-K: RAID Rack mount
- EM-A-CMP-S-T-K: SCSI Rack mount with telephone interface
- EM-A-CMP-S-O-K: SCSI Rack mount
- EM-A-CMP-R-T-C: RAID Rack mount with telephone interface and console
- EM-A-CMP-R-O-C RAID Rack mount with console
- EM-A-CMP-S-T-C: SCSI Rack mount with telephone interface and console
- EM-A-CMP-S-O-C: SCSI Rack mount with console
- Servers with telephone interface (-T-models) allow control of some functions via an analog phone line
- Servers with RAID (-R- models) use an array of three or more hard drives to prevent loss of data

### Capability

This eLumen™ Manager can control the largest GRAFIK 5000™, through GRAFIK 7000™ centralized lighting control systems, including those with more than 16,000 lighting zones and multiple concurrent users.



### Power

- Operating voltage: 115 V~ at 60 Hz
- Server requires at least four power receptacles
- Power should be through a Lutron-supplied uninterruptible power source (UPS) rated for at least 1500 VA

### Hardware

- CPU: Intel®<sup>1</sup> Xeon®<sup>1</sup> Processor
  - Servers with RAID: 3.0 GHz min.
  - Servers without RAID: 2.8 GHz min.
- Memory: 1 GB RAM.
- Monitor: Color 17 inch with 1024 x 768 resolution
- Disk space: 36 GB min. with 10X RPM SCSI
- Motherboard: integrated 10/100 Ethernet card
- 48x CDRW/DVD-ROM drive
- RS232 serial port
- US-101 keyboard
- PCI Ethernet<sup>2</sup> dual-port 100 Base-T NIC
- 2-button mouse with scroll wheel
- Phone line port with interface card (telephone interface models only)

### Software

- US Windows®<sup>3</sup> 32-bit server operating system Windows®<sup>3</sup>2003 or Windows®<sup>3</sup>2008, with SP1
- Microsoft .NET Framework 2.0
- Lutron DesignIT™ (also available separately for use with a customer-supplied server; consult Lutron factory representative)
- SecureIT™
- ScheduleIT™
- ConfigureIT™
- ControlIT™ (Optional)
- PictureIT™ (Optional)

1 Intel and Xeon are registered trademarks of Intel Corporation in the United States and other countries  
 2 The Lutron dedicated Ethernet port must be connected only to the GRAFIK™ Centralized Lighting Control System  
 3 Windows is a registered trademark of Microsoft Corporation in the United States and other countries

**NOTICE:** The warranty will be voided if unapproved software additions or upgrades are made to this server.

## LUTRON® SPECIFICATION SUBMITTAL

Job Name:	Model Numbers:
Job Number:	

**System Communications**

- Network connection provides dual speed capability at 10 Mbit/sec or 100 Mbit/sec accessed by a multiple redundant RJ45 connector
- Connects to the GRAFIK Centralized Lighting Control System through one of its network connectors through a network interface (EM-A-NWK-E-D-x) or directly

**Environment**

- Operating temperature: 50 °F to 75 °F (10 °C to 24 °C)
- Storage temperature: 0 °F to 120 °F (-17 °C to 48 °C)
- Relative humidity: 8% to 80% noncondensing
- Must be installed in a lockable, temperature-controlled environment to maintain the 1-year warranty

**Dimensions**

- H x W x D: 17.3 x 8.58 x 20.5 in (440 x 218 x 521 mm)
- Weight: 51.8 lbs (23.5 kg)

**Monitor Specifications**

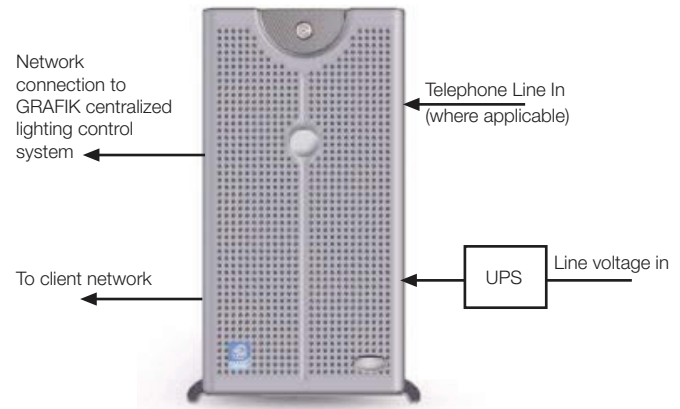
- 17 inch LCD
- 1024 x 768 minimum resolution
- H x W x D: 16.2 x 14.3 x 16.4 in (409 x 363 x 417 mm)
- Weight: 34.17 lbs (15.5 kg)

**Delivery**

- Ships in 4-6 weeks from time of release

**UPS Specifications**

- Capacity: 1500 VA
- Output Waveform: Sinewave
- Features: Hot-swappable (user-replaceable) batteries, Intelligent Battery Management, Overload and Replace Battery Indicator, SmartSlot, Site wiring fault indicator, Automatic Voltage Regulation (AVR)
- H x W x D: 6.2 x 5.4 x 14.1 in (158 x 137 x 358 mm)
- Weight: 29 lbs (13 kg)
- Average Run Time: 18.6 minutes (22 W, half load); 5.8 minutes (450 W, full load)
- Compliant Standards: CSA, FCC A, UL 1778
- Device Type: UPS
- Enclosure Color: Black
- Energy Rating: 320 joules (surge energy rating)
- Power Provided: 450 W



- Voltage: 120 V~
- Input Connector(s): 1x NEMA 5-15P
- Circuit Protection: Surge protection and filtering
- Clamping Level: Zero clamping response time
- Power Output Connectors Details: 4x NEMA 5-15R

**RAID Details (EM-A-CMP-R model only)**

- Uses a RAID 5 array of three or more hard drives to achieve transparent data redundancy. Drives are hot swappable and easily removable in the event of a single drive failure

**Telephone Interface Details (Telephone interference model only)**

- The integrated telephone interface allows:
  - Input from one analog phone line; must support caller ID
  - Voice-prompted remote touch-tone operation
  - Select intensity
  - Select scenes
  - Enable/disable control station devices
  - Enable/disable timeclocks
  - Select the state of system variables
  - Select the state of walls
  - Access restrictions by:
    - User ID
    - Passcode
    - Caller ID
- The telephone interface is designed for use with PSTN systems and requires an analog PSTN line to function properly; it is not designed for use with PBX systems

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