

LTC 8900 Series Allegiant Matrix/Control Systems - Modular

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- ▶ 4096 Camera by 512 monitor switching
- ▶ Modular construction
- ▶ Powerful alarm handling capabilities
- ▶ SalvoSwitching and SatelliteSwitch capability
- ▶ Includes Windows-based configuration software

The LTC 8900 Series Allegiant Video Switcher/Control Systems are powerful full matrix switchers, capable of displaying video from any camera on any monitor, either manually or via independent automatic switching sequences. By using the LTC 8901 Series CPU and the LTC 8943 series PC, the standard system can be enhanced to include dual/redundant CPU/Power supply with automatic hot-switchover capabilities.

Functions

General Construction

The LTC 8900 Series provides versatile modular construction accommodating up to 4096 camera inputs, 512 monitor outputs, 120 keyboards, 1024 alarm points, and a computer interface port. The robust design utilizes a separate CPU bay with its own power supply.

Dual/Redundant System

For situations where complete system failure cannot be tolerated, we offer the dual redundant LTC 8901 CPU. This CPU unit incorporates a secondary CPU/power supply. In the event of a primary CPU or power

supply failure, the system switches over automatically to the backup CPU or power supply. The system uses an independent PC that continuously monitors the CPUs for failure and performs a hot-switchover if needed. You can also manually change CPUs using the preloaded software or via a front panel slide switch.

Sequencing Capabilities

These systems can be programmed with up to 256 sequences, which can be run independently of each other in either a forward or reverse direction. Any of the sequences can utilize the SalvoSwitching capability, where any number of system monitors may be selected to switch as a group. Using the supplied software, sequences can automatically activate and deactivate based upon the day or the time of day.

Camera Control

The LTC 8900 Series support variable speed operation and full programming access for AutoDome and AutoDome Easy II Series cameras. In addition, on-site receiver/drivers are available to provide operator control of pan, tilt, zoom, pre-positions, auxiliaries,

EXT Sync	BNC input used to synchronize the unit to an external sync signal. Accepts composite video, composite sync, or the V Sync output provided from another LTC 8900 Series matrix bay
V Sync	BNC connector provides an output signal to synchronize an additional LTC 8900 Series matrix bay via its EXT Sync input
External Data Interface	Two (2), RJ-45 high-speed LAN ports for interface to the LTC 8901 Main CPU bay via system LAN Switches. (Connected in parallel; one is used, one is reserved for future use)

Components

Equipment Rack

Dimensions (W x D x H)	EIA 48 cm (19 in.) rack, 483 x 420 x 267 mm (19 x 16.5 x 10.5 in.)
Weight	11.1 kg (24.5 lb)
Construction	Metal cabinet
Finish	Charcoal

Data Receiver Module (LTC 8916/01)

Dimensions (W x D x H)	EIA 48 cm (19 in.) rack, 483 x 420 x 267 mm (19 x 16.5 x 10.5 in.)
Weight	0.5 kg (1.1 lb)

Power Supply (LTC 8906/60 or LTC 8906/50)

Dimensions (W x D x H)	67 x 360 x 247 mm (2.63 x 14.2 x 9.7 in.)
Weight	5.2 kg (11.5 lb)
Indicators	Power On/Off and fuse alert LEDs

LTC 8903 Series Camera Input Bays

The LTC 8903/60 and LTC 8903/50 include the equipment rack, LTC 8918/01 data receiver module, and LTC 8805 Series power supply.

Electrical

Model No.	Rated Voltage	Voltage Range	Nominal Power ⁶
LTC 8903/60	120 VAC, 50/60 Hz	100 to 140	85 W
LTC 8903/50	220–240 VAC, 50/60 Hz	198 to 264	85 W

⁶ Power at rated voltage fully loaded.

Connectors

Video Inputs	Sixteen (16), 34-pin ribbon connectors used in conjunction with the LTC 8808/00 video interconnect panel
Looping Video Input Connections	Sixteen (16), 34-pin ribbon connectors used with LTC 8809/00 ribbon cables (supplied as required to loop to additional LTC 8903 Series bays)

Video Bus Connections	Four (4), 34-pin ribbon connectors interconnect with LTC 8903 Series camera input bays using LTC 8809/00 ribbon cables
Console	Port reserved for future use
COM 1	Port reserved for future use
COM 2	Port reserved for future use
EXT SYNC	BNC input used to synchronize unit to external sync signal; accepts composite video, composite sync, or the V Sync output provided from another LTC 8900 Series matrix bay
V SYNC	BNC connector provides output signal to synchronize an additional LTC 8900 Series matrix bay via its EXT Sync input
External Data Interface	Two (2), RJ-45 high-speed LAN ports for interface to LTC 8901 main CPU bay via system LAN Switches (Connected in parallel; one is used, one is reserved for future use)

Components

Equipment Rack

Dimensions (W x D x H)	EIA 48 cm (19 in.) rack, 483 x 420 x 267 mm (19 x 16.5 x 10.5 in.)
Weight	11.1 kg (24.5 lb)
Construction	Metal cabinet
Finish	Charcoal

Data Receiver Module (LTC 8918/01)

Dimensions (W x D x H)	EIA 48 cm (19 in.) rack, 483 x 420 x 267 mm (19 x 16.5 x 10.5 in.)
Weight	0.5 kg (1.1 lb)

Power Supply (LTC 8805/60 or LTC 8805/50)

Size (W x D x H)	67 x 360 x 247 mm (2.63 x 14.2 x 9.7 in.)
Weight	5.2 kg (11.5 lb)
Indicators	Power On/Off and fuse alert LEDs

LTC 8921/00 Video Input Module

Use up to sixteen per LTC 8903 Series camera input bays.

Camera Inputs	32
Size (D x H)	300 x 250 mm (11.8 x 9.8 in.)
Weight	0.41 kg (0.9 lb)

LTC 8934/00 Video Output Module

Use up to eight per LTC 8902 Series monitor output bays.

Monitor Outputs	8
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Dimensions (D x H)	300 x 250 mm (11.8 x 9.8 in.)
Weight	0.41 kg (0.9 lb)

LTC 8941/91 System Controller

(Redundant System Configurations Only)

Includes LTC 8943/94 PC, LTC 8944/93 Primary LAN Switch and LTC 8945/93 Backup LAN Switch

LTC 8943/94 PC	Rack-mount industrial-grade Pentium PC, 512 MB RAM (minimum), 8 GB solid state hard drive (minimum), CD-/DVD burner, floppy drive, keyboard, mouse, keyboard/mouse rack-mount shelf, and Windows XP Professional; 120/230 VAC, 50/60 Hz
LTC 8059/00	Allegiant Master Control software (installed on PC)
Monitor (UML-191-90)	48.3 cm (19 in.) LCD panel 120/230 VAC, 50/60 Hz
Monitor Rack (UMM-LCDUB-RM)	Racked Height: 37.4 cm (14.7 in.) Racked Width: 48.3 cm (19.0 in.)
LTC 8944/93 Primary LAN Switch	24-port 10/100Base-T Ethernet Switch with SNMP Module, programmed with primary IP Address; 120/220 VAC, 50/60 Hz
LTC 8945/93 Back-Up LAN Switch	24-port 10/100Base-T Ethernet Switch with SNMP Module, programmed with back-up IP Address; 120/220 VAC, 50/60 Hz

LTC 8946/93 Expansion LAN Switch

24-port 10/100BaseT Ethernet Switch, no SNMP module; 120/220 VAC, 50/60 Hz

LTC 8808/00 Video Interconnect Panel

The LTC 8808/00 assembly contains an interconnect panel which is used to convert 32 BNC connectors into two 16-channel ribbon cable connectors. The two (2) coaxial ribbon cables (LTC 8809/00), designed especially for use with video signals, and are then used to interconnect the video between the panel and the LTC 8900 system. Use of the LTC 8808/00 assemblies are required for all external video input and output connections. In addition to being used for video inputs and monitor outputs, the LTC 8808/00 assembly is also used to provide looping capability. One (1) LTC 8808/00 (includes panel and two ribbon cables) is required for each group of 32 system cameras or 32 monitors.

Dimensions (W x D x H)	EIA 48 cm (19 in.) rack, 483 x 42 x 44 mm (19 x 1.65 x 1.75 in.)
Weight	
• Panel	0.54 kg (1.2 lb)
• Ribbon Cables	Two (2), 0.3 kg (0.7 lb)
Construction	Metal
Finish	Charcoal

Allegiant Accessories

The LTC 8900 Series accessory products provide many optional features to the base Allegiant switching systems. Accessory products include keyboard extension kits, Allegiant Bilinx Data Interface unit, receiver/driver units, switcher/followers, code merger units, video ribbon cables, and keyboard expansion units. All accessory products are designed to be installer-friendly and compatible throughout the Allegiant series systems. See the Allegiant Accessories datasheet.

Ordering information

LTC 8901/50 Allegiant Dual CPU Bay

Dual CPU bay, 230 VAC
Order number **LTC 8901/50**

LTC 8901/60 Allegiant Dual CPU Bay

Dual CPU bay, 120 VAC
Order number **LTC 8901/60**

LTC 8902/50 Allegiant Monitor Bay

Monitor bay, 230 VAC
Order number **LTC 8902/50**

LTC 8902/60 Allegiant Monitor Bay

Monitor bay, 120 VAC
Order number **LTC 8902/60**

LTC 8903/50 Allegiant Camera Bay

Camera bay, 230 VAC
Order number **LTC 8903/50**

LTC 8903/60 Allegiant Camera Bay

Camera bay, 120 VAC
Order number **LTC 8903/60**

LTC 8904/50 Allegiant CPU Bay

CPU bay, 230 VAC
Order number **LTC 8904/50**

LTC 8904/60 Allegiant CPU Bay

CPU bay, 120 VAC
Order number **LTC 8904/60**

LTC 8905/90 Power Supply

for LTC 8901 and LTC 8904 Series, 120/240 VAC
Order number **LTC 8905/90**

LTC 8906/50 Power Supply

for LTC 8902/50, 230 VAC
Order number **LTC 8906/50**

LTC 8906/60 Power Supply

for LTC 8902/60, 120 VAC
Order number **LTC 8906/60**

LTC 8910/01 CPU Module

CPU module for LTC 8901 and LTC 8904 Series
Order number **LTC 8910/01**

LTC 8916/01 Data Receiving Module

for LTC 8902 Series
Order number **LTC 8916/01**