

# LTC 5104 Series, LTC 5108 Series 4- and 8-Position Premium Sequential Switchers

- **Microprocessor-Based**
- **On-Screen Status Line & Setup Menus**
- **16 Character Camera Titles**
- **Programmable Dwell Times & Alarm Dwell/Capture Time**
- **Automatic Termination**
- **Foreign Language On-Screen Menus Available**



The LTC 5104 Series and LTC 5108 Series are automatic sequential video switchers. The LTC 5104 Series have 4-camera inputs and 1-monitor output; the LTC 5108 Series have 8-camera inputs and 2-monitor outputs. All models are microprocessor-based.

The auto-terminating BNC connectors eliminate the need for the user to select a 75-ohm terminated video input or a high impedance (unterminated video input with looping video output). The switcher sets itself correctly for either situation. The looping video output allows another piece of equipment to be connected to the same video line.

Features include a 16-Character Camera Titler, Nonvolatile Memory Back-Up, On-Screen Status Line, On-Screen Configuration Menus in English, French, German, and Spanish (11 for the LTC 5104 Series and 12 for the LTC 5108 Series), and a SMART Setup. The Status Line displays

the present camera number, the operation status, and camera title. There are five (5) operation status notations: S -- skipped camera displayed, RUN -- sequence running, MA -- monitor armed, ALARM -- alarm closure call-up, and HOLD -- camera held. The Configuration Menus include Dwell Adjust, Operating Mode (LTC 5108 Series only), Alarm Reset Mode, Alarm Capture, Capture Time, Alarm Dwell Time, Alarm Contacts Option, Status Line, Brightness and Background of titles, Display Position, System Reset, and Camera Titler. The VideoSearch™ feature detects any camera inputs without video and sets them to be skipped.

These versatile switchers provide individually or globally adjustable camera dwell times from 1 to 64 seconds. Automatic camera callup can be activated by motion detectors or remote alarm closures. Alarm contact can be selected either normally-open

or normally-closed. Alarms override normal operating mode to home on alerted camera. Vertical interval switching gives roll-free viewing. An alarm output is provided to activate a VCR to record alarms. The minimum time that an alarm will be held once triggered (unless cleared or the alarm input is disabled) can be set to 1 to 63 seconds. Sequencing through multiple alarms can be set to occur at a dwell of 1 to 64 seconds.

Two modes of operation can be selected for the LTC 5108 Series switchers. The two modes only affect Monitor B; Monitor A continuously sequences regardless of mode. In the Sequencing Mode, Monitor B will show either an alarm call up of a camera, a camera under a HOLD condition or normal sequencing of cameras. In the Blanking Mode, Monitor B will show either an alarm call-up of a camera, a camera under a HOLD condition or a blank screen.

**Monitor A**

**Sequencing Mode**

1. Normal sequencing of camera inputs.

**Blanking Mode**

1. Normal sequencing of camera inputs.

**Monitor B**

**Sequencing Mode**

1. Normal sequencing (same as Monitor A).

2. "HOLD" condition.

3. "ALARM" condition.

**Blanking Mode**

1. Blank screen.

2. "HOLD" condition.

3. "ALARM" condition.

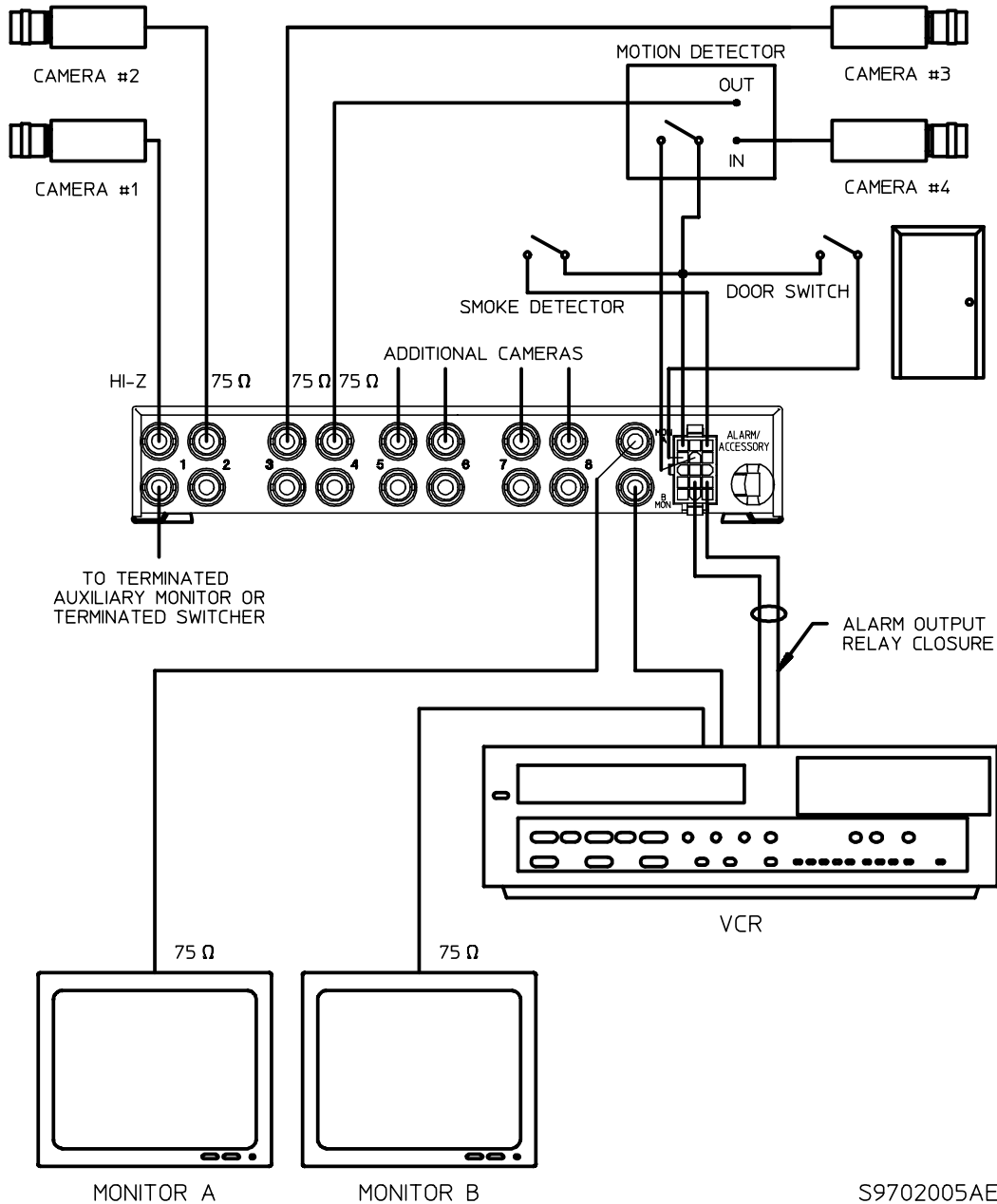
These switchers are compatible with the LTC 5135 Series

Controller/Followers allowing control of pan and tilt, zoom and focus as well as auxiliary relays when used with Allegiant® receiver/drivers.

Simple front panel controls insure easy operation. They include: a dwell button to select each channel; select buttons to select each channel; a skip/clear button to skip channels or to clear alarms; an alarm button to

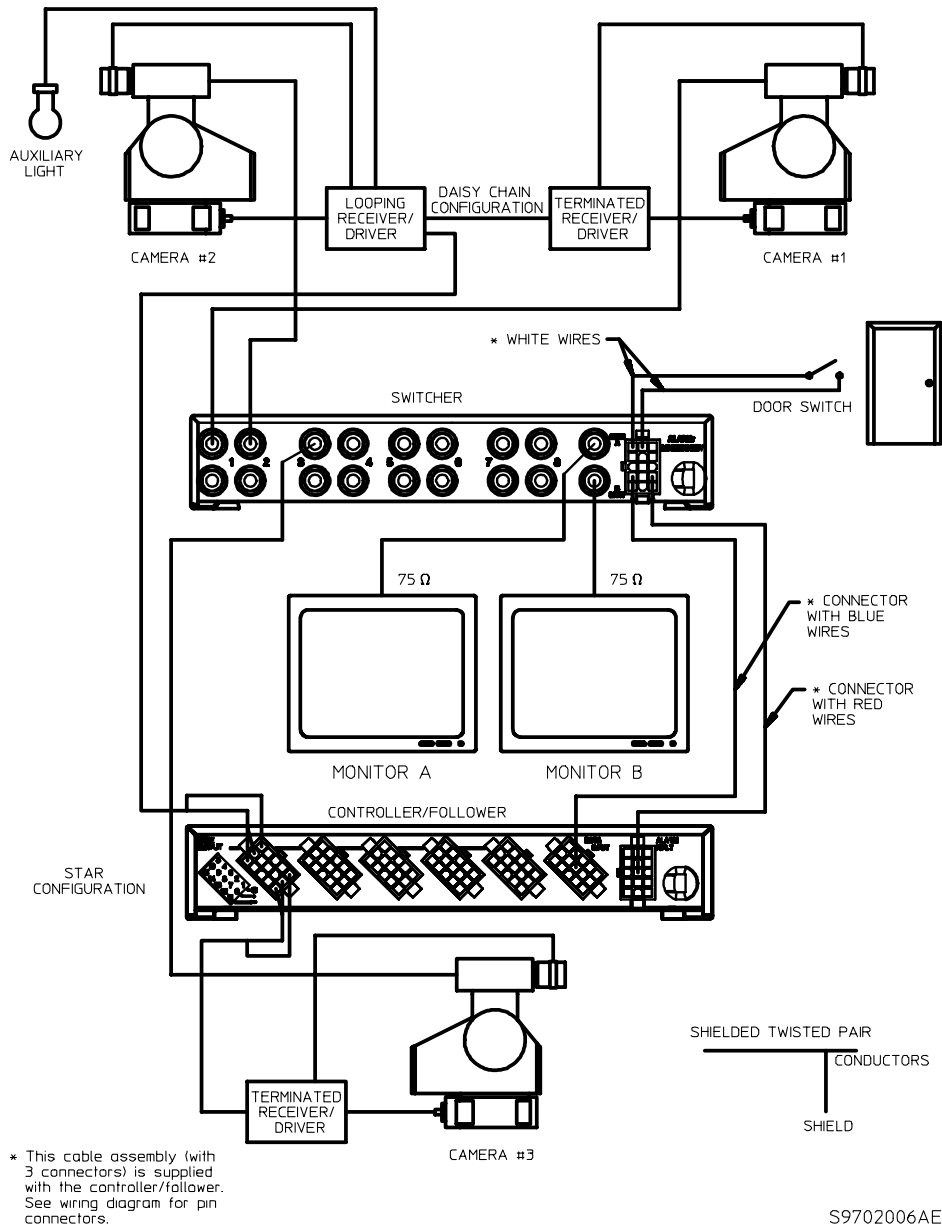
arm the monitor (Monitor B for the LTC 5108 Series); and a run button to initiate auto-sequencing or to select the next camera in the sequence.

Supplied as compact desk-top units, these switchers can also be mounted with a rack-mount kit. A 609 mm (24 in) cable with 15-pin connectors is provided for connecting a motion detector or remote alarm closures to the switcher.



S9702005AE

**Typical Installation Using LTC 5108 Series Switcher**



**Typical Installation Using LTC 5108 Series Switcher With a LTC 5135 Series Controller/Follower**

# SPECIFICATIONS

## Electrical

Model No.	Rated Voltage	Voltage Range	Power at Rated Voltage
LTC 5104/60	120 VAC, 50/60 Hz	105 to 130	4 W
LTC 5104/50	230 VAC, 50/60 Hz	198 to 264	4 W
LTC 5108/60	120 VAC, 50/60 Hz	105 to 130	4 W
LTC 5108/50	230 VAC, 50/60 Hz	198 to 264	4 W

Models shown are for English on-screen menus model.

**Switching Time:** Less than 1 microsecond.

**Dwell Time:** Each camera individually or globally set from 1 to 64 seconds.

**Alarm Dwell Time:** 1 s to 64 s.

**Alarm Capture Time:** 1 s to 63 s.

**Video Gain:** Unity.

**Bandwidth (-3 dB point):** 15 MHz minimum.

**Differential Gain:** 1% typical.

**Differential Phase:** 1° typical.

**Video Crosstalk (Input to input isolation):** -50 dB typical at 3.58 MHz.

**Video Feedthrough (Input to output isolation):** -65 dB typical at 3.58 MHz.

**Memory Back-Up:** Nonvolatile memory back-up.

### Controls:

Front Panel: Momentary Push Button Controls: DWELL, SKIP/clr, ALARM, RUN/next, each video input.

Internal: Video input has automatic termination.

**Indicators:** ALARM, RUN/next, each video input.

**Titling:** 16-character camera titling.

### Connectors:

Video Inputs:

0.5 Vp-p to 2 Vp-p.

LTC 5104 Series: 4 inputs; 8 BNC connectors.

LTC 5108 Series: 8 inputs; 16 BNC connectors.

Video Outputs:

LTC 5104 Series: 1; BNC (75 ohm).

LTC 5108 Series: 2; BNC (75 ohm).

Alarm Inputs:

LTC 5104 Series: 4.<sup>1</sup>

LTC 5108 Series: 8.<sup>1</sup>

Alarm Outputs:

Isolated contact closures 1 A, 40 V AC/DC.

Accessory Output:<sup>1</sup>

1. One 15-pin alarm/accessory connector.

## Mechanical

**Cable (Included):** One cable with 15-pin connector.

**Finish:** Charcoal.

**Dimensions:** 223 W x 280 D x 40 H mm (8.77 x 11.0 x 1.59 in).

**Weight:** 2 kg (4.5 lb).

## Environmental

### Temperature:

Operating: -18 °C to +50 °C (0 °F to +122 °F).

Storage: -40 °C to +60 °C (-40 °F to +140 °F).

**Humidity:** 10% to 80% relative, noncondensing.

**Vibration:** 3 g swept sine wave, 15 Hz to 2000 Hz.

**Shock:** 50 g, 11 ms, 1/2 sine.

## Electromagnetic Compatibility

**EMC Requirements:** CE Immunity, CE Emission Class B, FCC Class B, ICES-003.

**Safety:** CE, UL, cUL.

## Options

**LTC 9101/00 Rack Kit:** For mounting one or two units in an EIA 9-inch rack.

Height: 1 standard rack unit.

Width: 1 standard rack unit.



# PHILIPS

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