

LTC 8561, LTC 8564/20, LTC 8566 Series Single-channel On-site Receiver/Drivers

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- ▶ Full-featured pan/tilt/zoom/aux control
- ▶ Auto-pan/random pan
- ▶ Bi-Phase or RS-232 data input
- ▶ 99 Pre-positions with tour capability
- ▶ Pre-positions compatible with 360° continuous pan/tilt drives

The LTC 8561 Series, LTC 8564/20, and LTC 8566 Series On-site Receiver/Drivers are control data decoder units and motor drivers for pan/tilt units and zoom lenses. These receiver/drivers are used in conjunction with Allegiant® Series Microprocessor-based Switcher/Controller Systems.

The receiver/driver decodes Allegiant Bi-Phase control data from the switcher/controller system through the LTC 8568/00 Signal Distribution Units into specific control codes. In addition, the receiver/driver will accept RS-232 control code data generated by the LTC 8780 Series Data Converter Unit.

These receiver/drivers are available in a variety of input and output voltage configurations. All units are 50/60 Hz line frequency compatible. All units have low voltage DC lens drivers (6 volts or 12 volts selectable) for focus, zoom, and iris with adjustable speed. There are also four auxiliary outputs. One is a solid state relay with zero crossing switching fixed to the same voltage as the pan/tilt output. The others are relays which can supply voltage through contacts (normally open or normally closed) to control lights or other

devices at the remote site. Auxiliary supply terminals provide power which is fuse-protected at the voltage of the pan/tilt output.

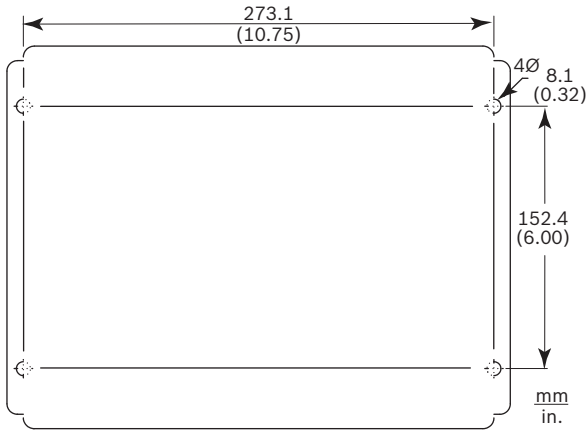
Advanced features include 99 pre-positions when using conventional 355° pan/tilt drivers, 82 pre-positions when using 360° continuous pan/tilt drivers, installer friendly connectors, lockable enclosure latches, 10-bit resolution for improved pan/tilt pre-position accuracy, and automatic pre-position tour capability.

Additional features include a full operating temperature range, an integral local test function, an unrestricted auto-pan feature for all models of pan/tilts, random pan, a unique dither feature, selectable latching or momentary auxiliaries, polarity reversible lens drive, convenient thumbwheel selectable camera addressing, and a NEMA-4X, IP66 rated environmental enclosure.

Certifications and approvals

Electromagnetic Compatibility (EMC)	Complies with FCC Part 15, ICES-003, and CE regulations
Product Safety	Complies with CE regulations, UL, CSA, EN, and IEC Standards

Installation/configuration notes



Mounting Hole Pattern

LTC 8564/20 AC Supply Wiring Guide

Wire Size		0.5 A Load		1.0 A Load		1.5 A Load		2.0 A Load	
mm ²	AWG	m	ft	m	ft	m	ft	m	ft
0.5	20	30	100	20	70	15	50	12	40
1.0	18	50	150	30	100	25	80	20	70
1.5	16	80	260	50	160	40	130	30	100
2.5	14	130	420	90	300	60	200	50	150
4.0	12	200	650	140	460	110	360	90	290

Table is based on a nominal 24 VAC source with a 10% drop in voltage due to cable loss.

Technical specifications

Electrical

Model No.	Rated Voltage ¹	Voltage Range	Pan/Tilt, Aux ¹ , & Aux Supply
LTC 8561/60 ²	120 VAC, 50/60 Hz	100 to 130	120 VAC, 50/60 Hz
LTC 8566/60 ^{3,5}	120 VAC, 50/60 Hz	100 to 130	24 VAC, 50/60 Hz
LTC 8566/50 ^{4,5}	230 VAC, 50/60 Hz	198 to 264	24 VAC, 50/60 Hz
LTC 8561/50 ²	230 VAC, 50/60 Hz	198 to 264	230 VAC, 50/60 Hz
LTC 8564/20 ²	24 VAC, 50/60 Hz	20 to 28	24 VAC, 50/60 Hz

1. Power (all models): 15 W at rated voltage (not including pan/tilt).

2. Fuse protected at 2.0 A.

3. Fuse protected at 1.0 A.

4. Fuse protected at 0.4 A.

5. For the LTC 8566/60 and LTC 8566/50, the maximum total current output, including Pan/Tilt output, Auxiliary 1 output, and Auxiliary Supply output, is 2.0 A.

Pan/Tilt Output	4 function pan/tilt solid state drive with zero crossing turn-on; 1.0 A drive capability
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Lens Output

For Zoom, Focus, and Motorized Iris	6 VDC or 12 VDC, 100 mA maximum
Variable Speed 6 VDC Setting	4 VDC to 8 VDC
Variable Speed 12 VDC Setting	8 VDC to 16 VDC
Auto-pan Auxiliary Output ¹	Solid state drive with zero crossing turn-on; 1.0 A drive capability
Auxiliary Output 2, 3, and 4	Relay contact rating 250 VAC, 5.0 A resistive, 0.25 hp
Pre-positions	99, with 4 functions each for use with 355° pan/tilt drivers or 82 with 5 functions each for use with continuous pan/tilt drivers. Pan/tilt positions sensed at 10-bit accuracy. Note that the maximum number of pre-positions available in the system is dependent on the type of control system employed. Refer to the applicable controller specification for exact pre-position capabilities.

Mechanical

Size (H x W x D)	295 x 241 x 165 mm (11.6 x 9.5 x 6.5 in.)
Weight	6.8 kg (15 lb)

Environmental

Temperature

• Operating	-40°C to 60°C (-40°F to 140°F)
• Storage	-40°C to 70°C (-40°F to 158°F)
Humidity	0% to 95% relative, non-condensing
Vibration	3 g swept sine wave, 15 Hz to 2000 Hz
Shock	50 g, 11 ms, 1/2 sine
Enclosure Protection	NEMA-4X, IP66, Enclosure Type RJ 1008 HPL

Ordering information

LTC 8561/50 Single-channel On-site Receiver/Driver

230 VAC pan/tilt voltage, 230 VAC power supply, with auxiliary, 50°Hz

Order number **LTC 8561/50**

LTC 8561/60 Single-channel On-site Receiver/Driver

120 VAC, 50/60 Hz, 100 to 130 V; Pan/Tilt, Aux 1, and Aux Supply: 120 VAC, 50/60 Hz

Order number **LTC 8561/60**

LTC 8564/20 Single-channel On-site Receiver/Driver

24 VAC, 50/60 Hz, 20 to 28 V; Pan/Tilt, Aux 1, and Aux Supply: 24 VAC, 50/60 Hz

Order number **LTC 8564/20**

LTC 8566/50 Single-channel On-site Receiver/Driver

230 VAC, 50/60 Hz, 198 to 264 V; Pan/Tilt, Aux 1, and Aux Supply: 24 VAC, 50/60 Hz

Order number **LTC 8566/50**

LTC 8566/60 Single-channel On-site Receiver/Driver

120 VAC, 50/60 Hz, 100 to 130 V; Pan/Tilt, Aux 1, and Aux Supply: 24 VAC, 50/60 Hz

Order number **LTC 8566/60**

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