

# LTC 9418 Series Outdoor Pan/Tilts



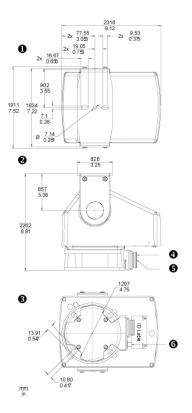
- ► Maximum Load 10 kg (22 lb)
- **▶ Low Profile, Compact Size**
- Corrosion Resistant Hardware
- ► 100% Duty Cycle Motors
- Upright or Inverted Operation

The LTC 9418 Series Weatherproof Outdoor Pan/Tilts are low profile, compact units constructed with corrosion resistant hardware. These remote positioning devices are rated for a maximum load of 10 kg (22 lb) and are fully system compatible with CCD cameras, lenses, and housing combinations.

#### **Functions**

The 100% duty cycle motors permit continuous operation on all models. Low speed worm drives and flexible motor mounts offer quiet, smooth motion. The use of impedance and overload protected motors, long life limit switches, and permanently lubricated bearings reduce maintenance and provide reliable operation.

## **Installation/Configuration Notes**



Dimensional Outline

# 2 | LTC 9418 Series Outdoor Pan/Tilts

- 1 Top view
- 2 Side view
- 3 Bottom view
- 4 Ground screw (on other side of multipin connector)
- 5 Multipin connector
- 6 BNC Connector

# **Technical Specifications**

## **Electrical**

Model No. 1)	Rated Motor Voltage	Operational Voltage Range
LTC 9418/60	110 VAC, 60 Hz	108 to 132 VAC
LTC 9418/20	24 VAC, 60 Hz	21.6 to 26.4 VAC
LTC 9418/10	24 VAC, 50 Hz	21.6 to 26.4 VAC
LTC 9418/50	220 VAC, 50 Hz	207 to 253 VAC

## Connectors

Power Via 24-pin connector on base
Ground Screw connection for grounding on base

## **Recommended Maximum Cable Lengths:**

necommended maximum capic tengths.					
Model	Wire	Wire Size		stance	ice
Voltage 2)	Mm2	AWG	Feet	Meters	
24 VAC	0.5	20	140	43	
	1	18	230	70	
	1.5	16	360	110	
	2.5	14	590	180	
	4	12	940	287	
115 VAC	0.5	20	2200	671	
	1	18	3500	1067	
	1.5	16	5500	1677	
	2.5	14	9000	2744	
230 VAC	0.5	20	13400	4085	
	1	18	21200	6463	
	1.5	16	33300	10152	
	2.5	14	54400	16585	

<sup>1)</sup> The total power for all models, with both motors running, is 24  $\mbox{W}.$ 

<sup>2)</sup> Values calculated at 20° C (68° F) using stranded tinned copper wire, a common ground (neutral), and with both pan and tilt motors operating simultaneously.

#### **Mechanical**

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These units are designed for either upright or inverted installations. To maintain weatherproof integrity when mounting outdoors in an inverted position, the unit must be installed in a weatherproof enclosure (e.g., weatherproof domed housing), or a protected outside area. They can only be mounted upright or inverted; never horizontally.

Pan Range (Movement in hor	rizontal plane)	0° to 345° maximum
Pan Speed		7°/seconds
Tilt (Movement in plane)	vertical	$+30^{\circ}$ to $-90^{\circ}$ from horizontal
Tilt Speed		3.5°/s seconds
Maximum Load	149 kg-cm (129 lb-in) torque or 10 kg (22 lb) at a distance of 63.5 mm (2.5 inch) from the center of mass of the camera/lens/housing assembly to the center of the tilt table	
Construction	Cast alumin cover	um base and yoke, corrosion resistant plastic
Finish	Light gray	
Dimensions	See Dimens	ional Outline
Weight	6.21 kg (13	.7 lb)

#### **Environmental**

**Product Safety** 

Temperature	Operating: -30°C to +60°C	
	Storage: -40° to +60°C	
Vibration	3 g swept sine wave, 15 Hz to 2000 Hz	
Shock	50 g, 11 ms, 1/2 sine	
Enclosure	Tested to IP54 requirements (upright mount- ing). UL 50 Type 3/NEMA-3 design.	
Product Regulatory Compliance		
Electromagnetic Compatibility (EMC)		
	Complies with FCC Part 15, ICES-003, and CE regulations	

Complies with CE regulations, UL, CSA, EN, and IEC

## **Ordering Information**

Standards

LTC 9418/10 Weatherproof Standard Pan/Tilts Max Load 10 kg, 24 VAC, 50 Hz	LTC9418/10
LTC 9418/11 Weatherproof Pre-Position Pan/ Tilts Max. load 10 kg, 24 VAC, 50 Hz	LTC9418/11
LTC 9418/20 Weatherproof Standard Pan/Tilts Max. load 10 kg, 24 VAC, 60 Hz	LTC9418/20
LTC 9418/21 Weatherproof Pre-Position Pan/ Tilts Max. load 10 kg, 24 VAC, 60 Hz	LTC9418/21

Ordering Information	
LTC 9418/50 Weatherproof Standard Pan/Tilts Max. load 10 kg, 230 VAC, 50 Hz	LTC9418/50
LTC 9418/51 Weatherproof Pre-Position Pan/ Tilts	LTC9418/51
Max. load 10 kg, 230 VAC, 50 Hz	
LTC 9418/60 Weatherproof Standard Pan/Tilts Max. load 10 kg, 120 VAC, 60 Hz	LTC9418/60
LTC 9418/61 Weatherproof Pre-Position Pan/ Tilts	LTC9418/61
Max. load 10 kg, 120 VAC, 60 Hz	
Accessories	
LTC 9216/00 Versatile Mount for 16-inch, 45,3 kg (100 lb) max load, light gray finish	LTC9216/00
LTC 9214/00 Versatile Mount for 14-inch, 90.6 kg (200 lb) max load up- right, light gray finish	LTC9214/00
LTC 9226/00 Versatile Mount for LTC 9216 & LTC 9222, 45,3 kg (100 lb) max load, corner mount bracket, light gray finish	LTC9226/00
LTC 9222/00 Versatile Mount for 22-inch, 90,6 kg (200 lb) max load, light gray finish	LTC9222/00
LTC 9227/00 Versatile Mount for LTC 9216 & 92220 , 45,3 kg (100 lb) max load, adjustable head, light gray finish	LTC9227/00
LTC 9228/00 Versatile Mount for LTC 9216/00 & LTC 9222/00 wall mounts, 45,3 kg (100 lb) max load, flange bracket	LTC9228/00
LTC 9224/00 Versatile Mount for 24-inch, 90.6 kg (200 lb) max load up- right, light gray finish	LTC9224/00
LTC 9225/00 Pole Mount 45,3 kg (100 lb) max load, pole mount, light gray finish	LTC9225/00

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