



# PRODUCT SPECIFICATION

**MODEL:** V3030APT AND V3030APT-SB

**PRODUCT CODE:** 0123 AND 0124

**DESCRIPTION:** LIGHT-DUTY PAN-AND-TILT DRIVES WITH AUTOPAN

- Two mounting options
- Built-in connector for motorized lenses
- Concealed wiring
- 7.5 lb (3.4 kg) load rating



The V3030APT and V3030APT-SB Pan-and-Tilt Drives are light-duty indoor units designed specifically for use with CCD cameras. Both offer autopan operation. All wiring to the camera and lens is concealed within the pan-and-tilt for an uncluttered appearance. Both units are capable of handling loads up to 7.5 pounds (3.4 kg) and have user-adjustable pan-limit stops. The unit is constructed almost entirely of high-strength plastic. A built-in connector is provided for motorized lens cable connections.

The V3030APT is designed with a 10-inch (25 cm) integral wall mount styled to complement the pan-and-tilt. The wiring to the pan-and-tilt, camera, and lens is routed through the wall mount and into the wall, eliminating any free cables and providing a clean, uncluttered look.

NOTES	SPEC NO.	REV.	SEC.
SUPERSEDES PRODUCT SPECIFICATION 573-690	573	599	1



V3030APT LIGHT-DUTY PAN-AND-TILT DRIVE WITH AUTOPAN

The V3030APT-SB is equipped with a square mounting base for installations not requiring the use of the integral wall mount. It may also be used in inverted installations.

The V3030APT and V3030APT-SB are UL listed under UL standard 2044.

### ASSOCIATED EQUIPMENT AND ACCESSORIES

**Model V181RM-1 Relay Box:** For use with 24-VAC pan-and-tilts. Allows cable runs up to 15,000 ft (4,600 m) using No. 18 AWG wire. Use with 24-VAC output controls. (Refer to Table 1 for maximum operating distances.) Product Specification 133.

## CONTRACTORS' SPECIFICATION

### INDOOR PAN-AND-TILT DRIVE

The pan-and-tilt drive shall be an indoor type with a load rating of 7.5 lb (3.4 kg) and a built-in wall mount. A model with a square base shall be available. The unit shall be capable of continuous unattended panning. The load rating shall be based on a moment-arm distance of 3.00 inches (7.6 cm) from the center of gravity of the load to the center of tilt rotation.

Torque rating shall be 16 lb-in (1.8 N-m) in the pan mode and 23 lb-in (2.6 N-m) in the tilt mode. Maximum horizontal travel shall be 355° and vertical travel shall be from +10° to -60°. Pan speed shall be 6.2°/sec and tilt speed shall be 4.3°/sec with 60 Hz input or 5.1/sec pan and 3.6/sec tilt with 50 Hz input.

Dimensions shall not exceed: height (at max. tilt), 7.0 in. (18 cm); width, 5.25 in. (13.3 cm); depth, 10.75 in. (27.3 cm) or 5.25 in. (13.3 cm) for square-base version.

The unit shall operate from 24 V, 50/60 Hz. Maximum power consumption shall not exceed 1 W in pan and 2 W in tilt. The reversing switch shall have 11 A, 10-million cycle rating.

The pan-and-tilt drive shall be Vicon model V3030APT; the square base version shall be Vicon model V3030APT-SB.

Product specifications subject to change without notice.  
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# TECHNICAL INFORMATION

## ELECTRICAL

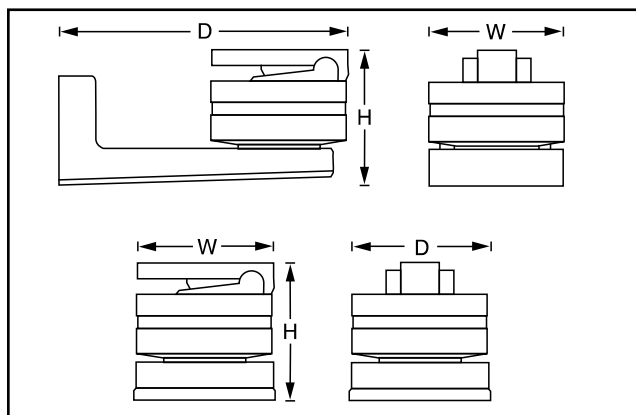
- Input Voltage: 24 V, 50/60 Hz.
- Power Consumption: Pan: 1 W.  
Tilt: 2 W.
- Reverse Switch Rating: 11 A, 10-million cycle.
- Cable Requirements: P/T functions: 8.  
Motorized lens functions: 5, unshielded.  
Camera power: 2 or 3, unshielded.
- Connectors: Two 12-position screw terminal boards.
- Safety Standard: UL 2044.

## OPERATIONAL

- Angular Travel: Pan: 355° maximum.  
Tilt: from +10° to -60°.
- Stops: Adjustable. Permanent limit stops set at maximum travel points.
- Speed: Pan: 6.2°/second (60 Hz);  
5.1°/second (50 Hz).  
Tilt: 4.3°/second (60 Hz);  
3.6°/second (50 Hz).
- Load Rating: 7.5 lb (3.4 kg).
- Effective Torque: Pan: 16.3 lb-in. (1.84 N-m).  
Tilt: 23.3 lb-in. (2.63 N-m).
- Mounting: V3030APT: upright.  
V3030APT-SB: upright or inverted.
- Reversing: Instantaneous via reversing switches in pan mode.
- Duty Cycle: Pan: continuous.  
Tilt: intermittent.

## MECHANICAL

- Dimensions: V3030APT  
Height (H): 7.0 in. (17.8 cm) at maximum tilt.  
Width (W): 5.1 in. (13 cm).  
Depth (D): 10.5 in. (26.7 cm).
- V3030APT-SB  
Height (H): 7.0 in. (17.8 cm) at maximum tilt.  
Width (W): 5.3 in. (13.5 cm).  
Depth (D): 5.3 in. (13.5 cm).



- Weight: V3030APT: 2.75 lb (1.25 kg).  
V3030APT-SB: 2.16 lb (0.98 kg).

- Construction: High-strength molded plastic.
- Motor Pinion Gears: Steel.
- Pan-and-Tilt Drive Gears: High-strength molded plastic.
- Finish: Light gray molded plastic.

- Shipping Dimensions: V3030APT  
Height: 7.5 in. (19 cm).  
Width: 7.25 in. (18 cm).  
Length: 14.0 in. (35 cm).  
V3030APT-SB  
Height: 8.25 in. (21 cm).  
Width: 8.25 in. (21 cm).  
Length: 8.25 in. (21 cm).

- Shipping Weight: V3030APT: 4.1 lb (1.8 kg).  
V3030APT-SB: 3.11 lb (1.4 kg).

- Shipping Volume: V3030APT: 0.42 ft<sup>3</sup> (0.012 m<sup>3</sup>).  
V3030APT-SB: 0.26 ft<sup>3</sup> (0.007 m<sup>3</sup>).

**TABLE 1  
MAXIMUM OPERATING DISTANCES**

Control Model	Relay Box	Wire Size (AWG)	Maximum Distance ft (m)
Any Vicon 24 VAC-output hardwired control or receiver	—	22	2,700 (820)
		20	4,300 (1,300)
		18	6,800 (2,100)
	V181RM-1	22	6,000 (1,800)
		20	10,000 (3,000)
		18	15,000 (4,600)

## ENVIRONMENTAL

Operating  
Temperature Range: +32 to +122° F (0 to +50° C).

Humidity: Up to 90% relative, noncondensing.

Storage  
Temperature Range: -40 to 150° F (-40 to 65° C).

Storage Humidity: Up to 90% relative, noncondensing.