



## AD1641 Series

### FIXED SPEED RECEIVER/DRIVER



The AD1641 Series Fixed Speed Receiver/Driver provides compatibility between American Dynamics Matrix Switcher/Controllers and any pan/tilt camera, and zoom, focus and iris function of motorized lenses, or auxiliary devices driven by 24 VAC, 120 VAC or 230 VAC.

This unit operates a single pan/tilt with a motorized lens and two auxiliary outputs at remote camera sites. An optional IP65/NEMA-4 rated enclosure kit is available for outdoor installations.

The receiver/driver operates via a single serial data control link from the switcher/controller. Control code signals are sent from the switcher/controller (or code distribution unit) via twisted pair, fiber optic, microwave, phone lines, or similar links.

Multiconductor cabling is required to interface the receivers to the pan/tilt, lens and auxiliary devices.

The unit is capable of controlling pan/tilt motion and zoom, focus and iris functions. When used with a suitably-equipped pan/tilt and zoom lens, it supports preset scenes, which can be recalled by the operator at a later time. These scenes are stored in nonvolatile memory (battery backup).

Auxiliary control provides latching and/or momentary outputs for operation of Autopan on/ off, window washers and wipers, door releases, gate controllers, etc. Surface mounted 24 VAC, 120 VAC, and 230 VAC (50/60 Hz) models are available.

## FEATURES

- Economical single-device 24 VAC fixed-speed receiver
- Drives standard and continuous rotation 24 VAC pan/tilts
- 71 programmable presets
- Built-in preset support standard
- Autopan between presets
- Retains preset programming if power is interrupted
- Adjustable zoom lens control
- Auto-sense circuit
- Two auxiliary outputs
- 24 VAC, 120 VAC, 230 VAC input supply voltages available
- Local test mode for field trouble-shooting and adjustments of pan/tilts
- Optional outdoor NEMA enclosure

## SPECIFICATIONS

### Model Numbers

AD1641M-2	Manchester receiver/driver, 120 VAC
AD1641M-2X	Manchester receiver/driver, 230 VAC
AD1641M-2F-1	Manchester receiver/driver, 24 VAC
Outdoor Kit	
AD1641EKIT	IP65/NEMA-4 enclosure (non-metallic)

### Operational

Camera Sites	One
Number of Presets	71
Auxiliary Outputs	
Relays	Two
Type	Form-C, latching or momentary
Contact Ratings	1 A, 24 VAC 2 A, 30 VDC (60 watts, maximum)

### Connectors

AD1641M Series	Balanced, 120 Ω, shielded twisted pair (Belden 8760 or equivalent) cable. Use directly with AD Matrix Switcher/Controller systems or other AD control code generators
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### Electrical

AC Voltage	
AD1641M-2	120 VAC, 50/60 Hz
AD1641M-2F-1	24 VAC, 50/60 Hz
AD1641M-2X	230 VAC, 50/60 Hz
Lens Drive	±8 VDC to ±12 VDC (adjustable)
Pan/Tilt Drive	24 VAC (1.0 A per drive motor, 2.0 A maximum)
Power Consumption	.5 watts, standby

### Mechanical

Dimensions (H x W x D)	
Indoor	.51 x 190 x 216 mm (2.0 x 7.5 x 8.5 in)
Outdoor	.292 x 292 x 234 mm (11.5 x 11.5 x 9.25 in)

### Unit Weight

Indoor	1.8 kg (4.1 lbs)
Outdoor	2.2 kg (5.1 lbs)

### Shipping Weight

Indoor	2.2 kg (5.1 lbs)
Outdoor	2.3 kg (5.2 lbs)

### Case Construction

Indoor	Black anodized aluminum
Outdoor	IP65/NEMA-4 non-metallic enclosure (optional)

Mounting	Surface mount
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### Environmental

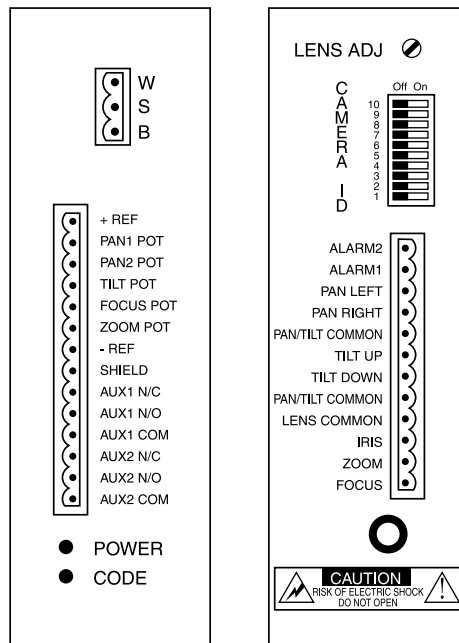
Operating Environment	Indoor or Outdoor with AD1641EKIT non-metallic enclosure
Operating Temperature	0° to 60° C (32° to 140° F)
Storage Temperature	-40° to 70° C (-40° to 155° F)
Humidity	90% RH (non-condensing)

### Regulatory

Safety	UL2044
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### Recommended Pan/Tilts

AD1240 Series	Indoor/Outdoor medium-duty pan/tilt
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