

IRD2024/ERD2000 Receiver

COAXITRON® COMPATIBLE, FIXED SPEED

Product Features

- Indoor/Outdoor Models
- Coaxitron® Compatible, Fixed Speed
- Pan/Tilt Control, Including Auto and Random Scan
- Lens Control (Zoom, Focus, Iris)
- Camera Power (24 VAC)
- Enclosure Power (Outdoor Model Only)
- Two Auxiliary Outputs
- NTSC or PAL Video
- Test Local Control Capability
- Ground Isolated BNCs (Eliminates Ground Loops)
- Video Transient Protection
- Power and Communication Indicator LEDs
- Lockable Enclosure (Outdoor Model Only)



ERD2000 OUTDOOR RECEIVER



IRD2024 INDOOR RECEIVER

The **IRD/ERD2000 Series** receiver operates all of Pelco's fixed speed pan/tilts and domes. It replaces the non-preset models in the CX9000RX/RXI Series receiver. This receiver offers removable screw terminal connectors for quick and easy installation. Power and communication indicators are provided for troubleshooting purposes.

The **IRD/ERD2000 Series** works with standard and extended Coaxitron controllers, including the CM6700/6800, KBD9000, MPT9000/9500, and MX4000. With Coaxitron control, pan/tilt and lens control signals are transmitted over the video coaxial cable, saving wiring costs. The control data is superimposed on the vertical blanking interval of the video signal.

Standard features include pan/tilt control (including auto and random scan), camera power, lens control (zoom, iris, and focus), and two auxiliary outputs. The receiver also can be used with the LRD41TLC test local control module, which allows on-site testing and troubleshooting of system functions. The TLC module plugs into the receiver and operates off the receiver's power. Use the TLC to check pan/tilt functions (up, down, left, and right), iris open/close, focus near/far, and zoom telephoto/wide angle.

The indoor model accepts 24 VAC input and provides 24 VAC output for camera power and pan/tilt operation. Simplicity of design allows the indoor unit to be installed in a weatherproof housing to create the outdoor model. The outdoor model accepts either 120 or 230 VAC input. It supplies 24 VAC for camera power, 24, 120, or 230 VAC for pan/tilt operation, and 120 or 230 VAC for heater, blower, or defroster accessories inside the camera enclosure.



TECHNICAL SPECIFICATIONS

MODELS

IRD2024	Indoor, fixed speed, Coaxitron receiver, 24 VAC input, 24 VAC output for camera power and pan/tilt operation
ERD2200	Outdoor, fixed speed, Coaxitron receiver, 120/230 VAC input, 24 VAC output for camera power, 24, 120, or 230 VAC output for pan/tilt operation, and 120 or 230 VAC output for enclosure accessories

MECHANICAL

Connectors	
Video	BNC
Pan/Tilt	Screw terminals
Camera and Lens	Screw terminals
Power Connectors	Screw terminals
Cable Entry	
IRD2200	Openings for .75-inch (1.9 cm) conduit

ELECTRICAL

Input Voltage	
IRD2024	24 VAC, 50/60 Hz
ERD2200	120/230 VAC, 50/60 Hz
Output Voltage	
IRD2024	
Camera, Pan/Tilt	24 VAC
Lens	8 VDC
ERD2200	
Camera	24 VAC
Lens	8 VDC
Pan/Tilt	24/120/230 VAC
Enclosure	120/230 VAC
Power Consumption	
IRD2024	45 VA maximum
ERD2200	90 VA maximum
Video Input/Output	75 ohms
Video Bandwidth	10 MHz
Video Gain	Unity
Video Formats	NTSC or PAL
Control Method	Standard or extended Coaxitron
Auxiliary Outputs	
AUX 1	One open collector, TTL 5 VDC, 15-20 mA (used for wiper or low current relays)
AUX2	One Form C relay output (N.O./N.C.) 1 A at 24 VDC or 0.5 A at 120 VAC
Operating Distance	Cable distances are approximate according to cable type used. 75-ohm coax required.

Cable Type	Distance	Distance Using EA2000
RG59/U	750 ft (229 m)	3,000 ft (914.4 m)
RG6/U	1,000 ft (309 m)	4,500 ft (1,371.6 m)
RG11/U	1,500 ft (457 m)	6,000 ft (1,828.8 m)
RG15/U	—	8,000 ft (2,483.4 m)

GENERAL

Environment	
IRD2024	Indoor
ERD2200	Outdoor
Construction	
IRD2024	Aluminum
ERD2200	Aluminum (receiver), steel (housing)
Finish	
IRD2024	Black polyester powder coat
ERD2200	Gray polyester powder coat
Operating Temperature	
IRD2024	-10° to 122°F (-23° to 50°C)
ERD2200	-50° to 122°F (-46° to 50°C)
Dimensions	
IRD2024	10.3" L x 6.0" W x 1.75" H (26.2 x 15.2 x 4.4 cm)
ERD2200	15.2" L x 12.2" W x 5.0" H (38.6 x 31.0 x 12.7 cm)
Unit Weight	
IRD2024	1.25 lb (0.5 kg)
ERD2200	9.90 lb (4.5 kg)
Shipping Weight	
IRD2024	3 lb (1.3 kg)
ERD2200	13 lb (5.8 kg)

CERTIFICATIONS/RATINGS

- CE, Class B
- UL Listed
- UL Listed to Canadian safety standards
- FCC, Class B
- Meets NEMA Type 1, IP10 standards (IRD2024); NEMA Type 4, IP66 standards (ERD2200)

OPTIONAL ACCESSORIES

LRD41TLC	Test local control module. Receiver plug-in module for on-site testing of system functions
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RECOMMENDED POWER SUPPLIES

MCS Series	Indoor power supply, 24 VAC output. Recommended for use with IRD2024.
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