



# LRD41C21/LRD41C22 Series Receiver

## COAXITRON®/RS-422 COMPATIBLE, FOR LEGACY® SYSTEMS

### Product Features

- 64 Presets
- Fixed Speed or Full PTZ Variable Speed Control Models Available
- 8 Inputs for Preset Alarms\*
- 1 Alarm Output\*
- 2 Relay Outputs: Aux 1 and Aux 2\*
- Self-Test Diagnostics
- Auto/Random Scan
- Camera Synchronization
- Serial Com Port (RS-422)
- Coaxitron® Compatible
- Transient Suppression
- NTSC or PAL Video
- Test Local Control Capability
- Adjustable Lens Voltages
- For Use with Legacy® LWM41 Wall Mount

The **LRD41C21/LRD41C22 Series** Legacy® receiver is designed for use with our LWM41 wall mount. Standard features include 64 presets, 8 inputs for preset alarms\*, and 1 alarm output. Choose from fixed speed or variable speed models for 24/120/230 VAC applications.

The **LRD41C21 Series** receiver is for use with fixed speed Legacy pan/tilt models PT780P, PT780P/PP, PT780SL, PT780SL/PP, PT780-24P, PT780-24P/PP, PT780-24SL, and PT780-24SL/PP. The **LRD41C22 Series** receiver is for use with variable speed pan/tilt models PT780-VS, PT780-VSSL, PT780-VS/PP, and PT780-VSSL/PP.

The **LRD41C21/LRD41C22 Series** is compatible with either Coaxitron® control systems utilizing standard 15-bit or extended 32-bit command protocols or Pelco serial RS-422 control systems utilizing D- or P-type protocols.

Also available is the **LRD41TLC** test local control module which allows on-site testing of Legacy system functions. Simply plug the TLC into the connector on the receiver and you're ready to test the system functions. The TLC module operates on +5 VDC supplied by the receiver and controls these functions: iris open/iris close, focus near/focus far, zoom telephoto/zoom wide, tilt up/tilt down, and pan left/pan right.

\* Requires optional LRD41C-CONNKIT



LEGACY WALL MOUNT WITH INTEGRAL RECEIVER



LEGACY LRD41A11 RECEIVER SHOWN WITH LRD41TLC TEST LOCAL CONTROL MODULE



DataFAX  
SPEC: 2557  
MANUAL: 25576

C557 / REVISED 10-03



International Organization  
for Standardization;  
Registered ISO 9001



# TECHNICAL SPECIFICATIONS

## MODELS

LRD41C21-1	Legacy fixed speed receiver with up to 64 presets, 120 VAC input. Use with LWM41 Legacy wall mount
LRD41C21-2	Same as LRD41C21-1 except 24 VAC input
LRD41C21-3	Same as LRD41C21-1 except 230 VAC input
LRD41C22-1	Legacy variable speed receiver with up to 64 presets, 120 VAC input. Use with LWM41 Legacy wall mount
LRD41C22-2	Same as LRD41C22-1 except 24 VAC input
LRD41C22-3	Same as LRD41C22-1 except 230 VAC input

## MECHANICAL

RS-422 Connector	4-position connector
Aux/Alarm Connector	18-position double-stack header for interface. Aux/Alarm mating connectors not supplied (see <i>OPTIONAL ACCESSORIES</i> )
Video and Sync Connectors	BNC
Pan/Tilt Connector	37-pin connector
Power Connector	6-position (mating connector on switch bracket)

## ELECTRICAL

Input Voltage	See table below
---------------	-----------------

120V Models	LRD41C21-1	LRD41C22-1
Input	120 VAC	120 VAC
Pan/Tilt	120 VAC	12 VDC
Camera	24 VAC	24 VAC
Enclosure	120 VAC	120 VAC
24V Models	LRD41C21-2	LRD41C22-2
Input	24 VAC	24 VAC
Pan/Tilt	24 VAC	12 VDC
Camera	24 VAC	24 VAC
Enclosure	24 VAC	24 VAC
230V Models	LRD41C21-3	LRD41C22-3
Input	230 VAC	230 VAC
Pan/Tilt	120 VAC	12 VDC
Camera	24 VAC	24 VAC
Enclosure	230 VAC	230 VAC

Frequency	60/50 Hz
Video Input	75 ohms terminating
Video Output	75 ohms terminating
Video Bandwidth	10 MHz
Video Gain	Unity
Video Formats	NTSC or PAL
Control Method	Coaxitron, 15-bit and 32-bit protocols or 2-wire RS-422
Standard Baud Rate	
D-type Control	2400 baud only
P-type Control	2400/4800/9600 baud
Alarm In	GND to operate, +5V or open to disable
Alarm Out	One open collector, TTL 5 VDC, 15-25 mA
Aux 1 and 2 Relay	1 A at 24 VDC
Lens Output	
Voltage	6 VDC to 10 VDC
Current	25 mA at 10 VDC, 100 mA at 9 VDC

Operating Distances	Cable distances are approximate according to cable type used. 75-ohm coax required	
Coaxitron Version	750 ft (229 m) on RG59/U	
RS-422 Version	4,000 ft (1,219 m) on 24 AWG twisted pair (for point-to-point and daisy-chain configurations only)	
Fuse Values	F1	F2
	Input Power (LRD)	Enclosure
LRD41C21-1	2A	2A
LRD41C21-2	2.5A	6.3A
LRD41C21-3	500 mA	1A
LRD41C22-1	400 mA	2A
LRD41C22-2	1.25A	6.3A
LRD41C22-3	160 mA	1A

**LRD Input Current Table**

Model	Receiver*	Enclosure/Accessories**
LRD41C21-1	500 mA	1.5 A
LRD41C21-2	2 A	6 A
LRD41C21-3	250 mA	900 mA
LRD41C22-1	200 mA	1.5 A
LRD41C22-2	1 A	6 A
LRD41C22-3	100 mA	900 mA

- \* Current required to run the receiver, pan/tilt, camera, and lens.  
 \*\*Current required for maximum enclosure options (heaters, wiper, blower, defroster, and pan/tilt heater blankets).

## GENERAL

Operating Temperature	0° to 110°F (-18° to 43°C)
Case Dimensions	11.5" L x 4.5" W x 2.75" H (29.21 x 11.43 x 6.98 cm)
Finish	Alodine
Unit Weight	5 lb (2.27 kg)
Shipping Weight	6 lb (2.72 kg)

## CERTIFICATIONS

- CE, Class A (all models)
- FCC, Class A (all except 230 VAC models)

## OPTIONAL ACCESSORIES

LRD41TLC	Test local control module. Receiver plug-in module for on-site testing of Legacy system functions
LRD41C-CONNKIT	Two 9-pin connectors that interface with the 18-position double-stack Aux/Alarm connector on the receiver. Required to enable the Aux/Alarm capabilities of the receiver.
LWM41	Legacy wall mount.



**Pelco Worldwide Headquarters:**  
 3500 Pelco Way, Clovis, California 93612-5699 USA  
**USA & Canada** Tel: (800) 289-9100 • FAX (800) 289-9150 • DataFAX (800) 289-9108  
**International** Tel: (559) 292-1981 • FAX (559) 348-1120 • DataFAX (559) 292-0435  
[www.pelco.com](http://www.pelco.com)

Legacy® and Coaxitron® are registered trademarks of Pelco.  
 Specifications subject to change without notice.  
 ©Copyright 2003, Pelco. All rights reserved.