



## ACCESSORIES

### Model RLC-10R

### Remote Level Control Rotary Encoder

#### ANYWHERE YOU NEED...

- Rotary Encoder Remote Level Adjustment
- Direct 0 to 10 Vdc Output from a Remote Control
- Up/Down Pulse Output from a Remote Control
- 0 to 10 Vdc LED Display of Internal/External Voltage
- Optical Encoding for Long Life
- Noise-Free Performance
- Professional High Quality Appearance
- RDL *ULTRASTYLE*™ Design

#### **You Need The RLC-10R!**

The RLC-10R is part of the group of remote control accessories from Radio Design Labs. The rugged high quality construction and professional styling make the RLC-10R the optimum choice for level control in critical high quality installations.

**APPLICATION:** The RLC-10R is the ideal choice for 0 to 10 Vdc or pulsed control from a remote location. Control is based on optical encoder technology to produce long-term trouble-free operation.

Two output modes are simultaneously available. The 0 to 10 Vdc output operates continuously. Up and down pulses from the optical encoder are also provided on the rear barrier block. The 0 to 10 V output is used to control RDL VCA products, and may be connected to a wide range of other industry 0 to 10 Vdc controlled equipment. This mode is used for single point control. If multiple control points are desired, the pulse outputs may be connected to RDL RU-VCA products and various other industry products. A rear-panel jumper sets the PULSE outputs to either produce +15 Vdc pulses or momentary open collector pulses.

Control is incremented up or down when the large front-panel knob is rotated. Acceleration is provided so the rate of change is faster when the knob is rotated more rapidly, yielding a responsive feel.

The LED ring display encircling the control knob operates as a virtual pointer. The input to this display is a 0 to 10 Vdc signal. A strap on the module rear barrier block determines if the display operates from the internally generated control voltage or from an external control voltage. Typically, if the 0 to 10 Vdc control voltage from the RLC-10R is being used to control a VCA, the internal voltage is also used for the display. If the RLC-10R pulse outputs are used with RDL RU-VCA modules, the 0 to 10 Vdc **EQRAMP** from the VCA module is fed back to the RLC-10R. Therefore, multiple RLC-10R modules may be connected together with all modules providing the same level indication.

In the event of power loss, internal non-volatile memory stores the last level value. When power returns, the 0 to 10 V output will return to the operating level present when power was lost.

Wherever the highest quality, durability, performance and appearance are required in remote level control, the RLC-10R is the ideal choice. Use the RLC-10R individually, or combine it with other RDL products as part of a complete audio/video system.



Additional *ULTRASTYLE* design options shown at [www.rdlnet.com](http://www.rdlnet.com)

# ACCESSORIES

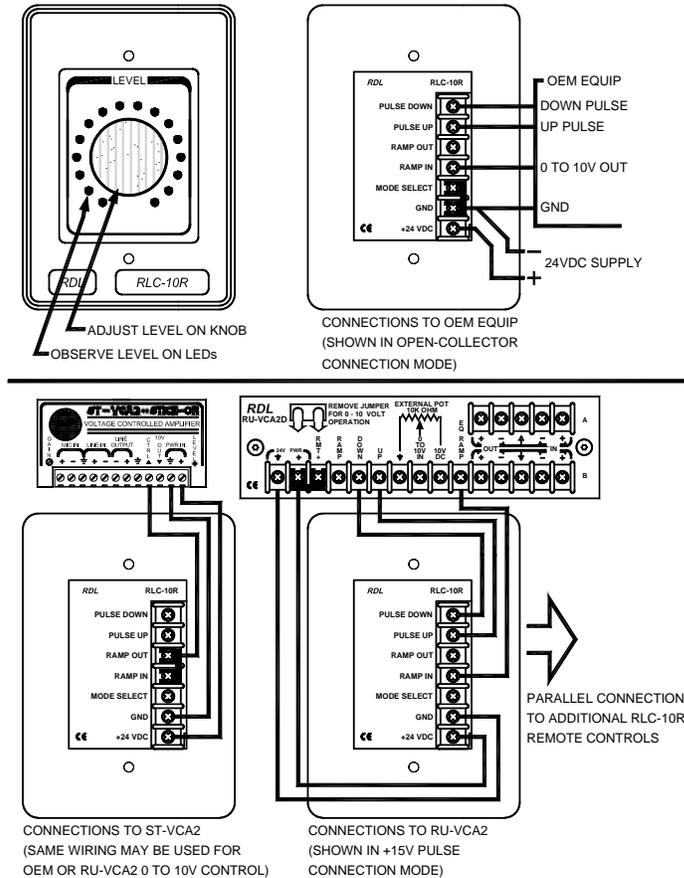
## Model RLC-10R

### Remote Level Control Rotary Encoder

## Installation/Operation



EN55103-1 E1-E5; EN55103-2 E1-E4  
Typical Performance reflects product at publication time exclusive of EMC data, if any, supplied with product. Specifications are subject to change without notice.



NOTE: Wiring between VCA and RLC-10R must be electrically shielded, either by installation in a metal conduit or using shielded cable. When shielded cable is used without conduit (or in nonmetallic conduit), the shield should be connected to the RLC-10R mounting enclosure.

### TYPICAL PERFORMANCE

Ramp output:	0 to 10 Vdc
Pulse outputs (2):	<b>PULSE UP, PULSE DOWN</b> (programmable open collector, or +15 V pulse)
Pulse output current:	20 mA (open collector)
Display RAMP IN input resistance:	200 kΩ
Display input voltage:	0 to 10 Vdc
Rotations, approximate min-to-max:	5 (slow rotation, no acceleration) 3 (medium rotation, with acceleration) 1 (fast rotation counterclockwise, anti-feedback mode)
Power Requirement:	24 Vdc @ 50 mA, Ground-referenced
Overall Dimensions:	Height: 4.9 in. 12.44 cm Width: 3.4 in. 8.63 cm Depth: 1.6 in. 4.06 cm