



**AI1001
INFRARED REMOTE
INTERFACE**

Version 2.1

Date 05/01/2026

AI1001 IR REMOTE INTERFACE

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OWNERS MANUAL

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DESCRIPTION

The AI1001 is a digital control interface for use with the Lightronics Architectural Series of products. This unit enables dimmer scene activation from multiple remote locations using a handheld IR remote. An LED indicator in the wall unit provides visual feedback when a command is being received from the remote.

A dedicated hand held IR remote transmitter is supplied with the unit.

INSTALLATION

The AI1001 fits a standard single gang wall switch box. The unit communicates with a Lightronics architectural dimmer via a 4 wire data bus which handles multiple remote units of several types. All wiring associated with the AI1001 is low voltage.

The AI1001 connects to the dimmer via a shielded 4 conductor cable arranged as 2 twisted pairs.

One pair connects the REM DATA - and REM DATA + signals. The other pair carries the common (REM COMMON) and power (REM VOLTAGE+). The diagram on the next page shows connections on the AI1001 for the Smart Remote Bus.

Single unit: Connect the 4 cable wires to the screw down terminals on the back of the unit. Connect the cable shield to the REM COMMON pin. The other end of the cable connects to the dimmer. See the dimmer owner's manual for additional wiring details.

Multiple Units: Multiple AI1001 and other Lightronics Smart Remote units may be utilized on the same bus. Follow the instructions for a single unit for the first AI1001. Connect pin 1 of the second unit to pin 1 of the first unit and continue for the remaining wires. Repeat the procedure for additional units.

HAND REMOTE

The hand held remote unit is an infrared transmitter which uses 2 AAA batteries. The overall remote dimensions are 5.75"L X 1.5"W x .66"D.

OPERATION

No setup or turn on procedure is needed for the AI1001. The dimmer provides the power. The AI1001 automatically senses and encodes IR signals from the hand held remote to activate scenes stored in the dimmer.

The IR hand remote can turn on 13 different scenes. Pressing the button of any active scenes will turn that scene off. The OFF button will shut off the first 8 scenes of the remote. The additional scenes must be turned off by pressing the individual scene buttons. Scenes to be activated by the AI1001 must have already been created and stored in the dimmer. See the dimmer owner's manual for instruction on programming scenes.

The AI1001 may be set by using the DIP switches on the back of the unit to access different groups or blocks of 13 scenes each. The table on the following page shows the switch settings and their associated scene number range.

MAINTENANCE AND REPAIR**TROUBLESHOOTING**

Confirm that the 2 AAA batteries in the hand remote are not discharged and installed properly.

Check the control cable and its connection integrity

Verify that one (and only one) of the host dimmer(s) in the system is set to UNIT ID 00.

Ensure the DIP switches on the back of the AI1001 are set to the desired scene block.

OWNER MAINTENANCE

Other than the batteries in the hand remote there are no user serviceable parts in the unit. Service by other than Lightronics authorized agents will void your warranty.

OPERATING AND MAINTENANCE ASSISTANCE

Dealer and Lightronics personnel can help you with operation or maintenance problems.

If service is required - contact the dealer from whom you purchased the unit or contact Lightronics, Service Dept., 509 Central Drive, Virginia Beach, VA 23454 TEL: (757) 486-3588.

WARRANTY INFORMATION AND REGISTRATION – CLICK LINK BELOW

www.lightronics.com/warranty.html

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