

# Unity Architectural Dimmers

- 12 Channels
- 2400W per Channel
- Single or Three Phase
- DMX Input with Softpatch
- 100 Scene Memory
- Calendar Clock / Event Scheduler
- "Snapshot" Recording of Scenes
- UL-508 Compliant
- 2600W Available
- **Optional Built In Wireless DMX**

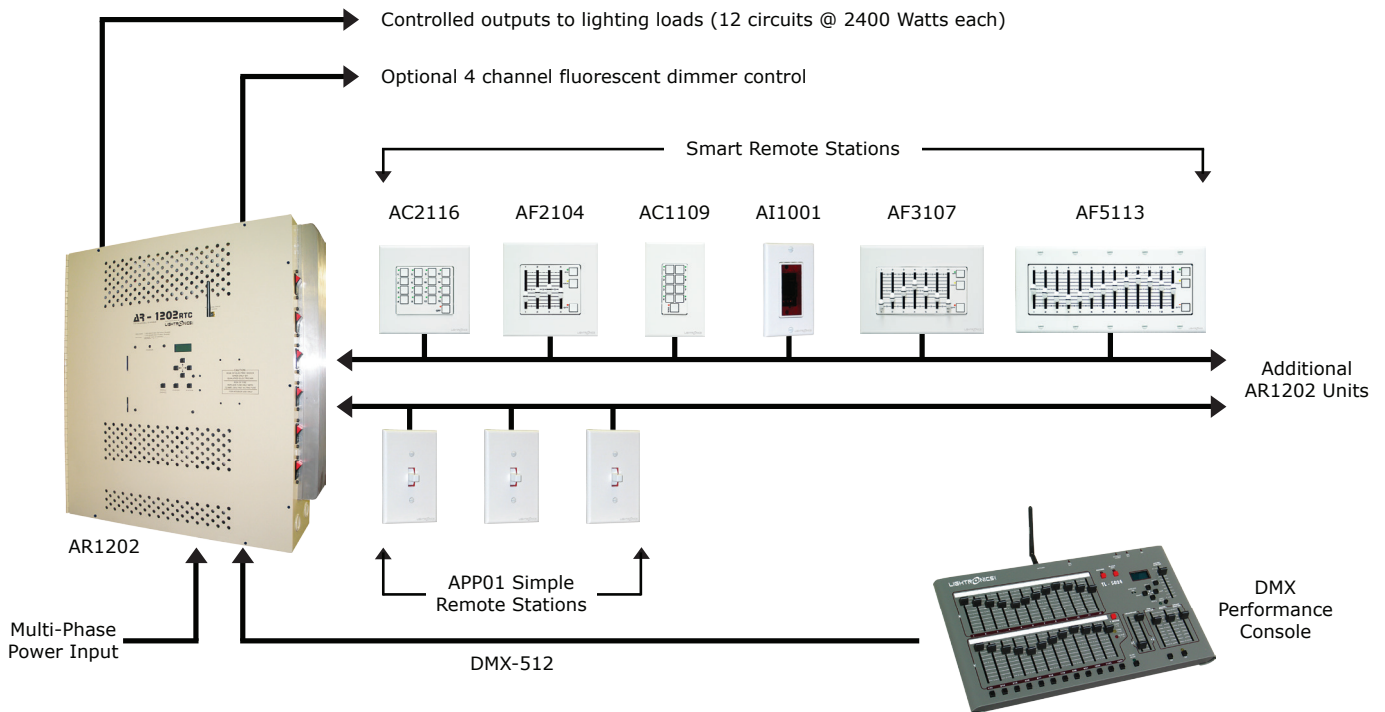
**AR1202**  
Wall Mount Dimmer



Flexible, powerful, and affordable, this easy to install and use architectural system is equally at home in churches, schools, theaters, hotels, etc.

The AR1202 is a 12 channel x 2400 Watts per channel dimmer. It accepts DMX-512 signals and allows remote station control of preset scenes. The unit operates from either single or three phase power. The highly versatile AR1202 may utilize remote stations to activate specific user programmed scenes pre-stored in the unit. Several various remote types may be used. The AR1202 meets UL and CSA requirements and is listed by MET Laboratories.

## TYPICAL SYSTEM DIAGRAM



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## SPECIFICATIONS

Channels / Capacity:	12 @ 2400 Watts each
Power Requirements:	120/208VAC Three Phase, 80 Amps each Leg OR 120/240VAC Single Phase, 120 Amps each Leg
Power Devices:	Dual 65 Amp SCRs
Power Connector:	Terminal Strip
Channel Output:	Terminal Strip
Circuit Breakers:	20 Amp Fast Acting
Minimum Load:	15 Watts
Curve:	Modified Square Law
Filter Rise Time:	600 Usec. Minimum
Output Function:	Dimmer or Relay Circuit Selectable
Remote Network:	RS-485, 62.5 Kbaud, Bidirectional 9 Bit Network
Control Input:	DMX-512 USITT Standard with Softpatch
Front Panel Controls:	8 Char. x 2 Line LCD Display and Keypad
Local Presets:	100 Scenes Standard, Expandable to 255 Scenes
Remote Stations:	Total of 32 Remote Stations with Unique System Addresses
Slave AR-1202RTC Units:	Up to 31 Additional AR1202 Units may be Added (384 Channels)
Size:	20.5"W x 21"H x 6.25"D
Weight:	70 Pounds

## Architect & Engineer's Specifications

The dimming system shall have 12 circuits with a load capacity of 2400 Watts per circuit. Each circuit is protected by a 20 Amp fast acting magnetic circuit breaker. An allowance of 200% overhead capacity is employed in the circuit design. The dimming system shall have a rise time of not less than 600 microseconds. Programming setup and memory attributes are via a front panel LCD display with keypad controls. A user may program the system power setup, the dimmer attributes of Dim or Relay, Softpatch, scene memories, and unit address via the front panel display and keypad controls. The dimming system will have a minimum of 100 programmable scenes. Scenes are recalled via standard 8 momentary contact closures, and up to 32 remote stations using a RS-485 protocol. A Calendar/Clock shall allow the user to schedule 128 Events to trigger by date and time any of the 100 programmed scenes, Event scenes may be piled on. A Snapshot function uses an external control to set scenes and via the Enter button record them directly into a scene memory. An astronomical clock is set and programmed by entering in the Longitude and Latitude of the system location. The dimming shall accept external control via RS-232/485 serial data. The dimming system shall also use USITT standard DMX-512 protocol for control of the dimming circuits.

Power requirements of the dimming system shall be 120/240 VAC Single Phase or 120/208 VAC Three Phase operation. Capacity shall be 120 Amps per leg Single Phase mode, 80 Amps per leg Three Phase mode. All connections for control and electricity are made through terminal connections. Access to connections shall be through a hinged front panel. Wallmount attachments must accommodate standard 16" "stud centers". All components and subsystems of the dimming system shall be UL-508 recognized and conform to the standards set forth.

Dimensions are 21" high, 20.5" wide, 6.25" deep, the weight is 70 lbs.

The dimming system shall be a Lightronics AR1202.

To view and/or download the Owner's Manual click here: [www.lightronics.com/manuals/ar1202rtcm.pdf](http://www.lightronics.com/manuals/ar1202rtcm.pdf)