

# Architectural Systems

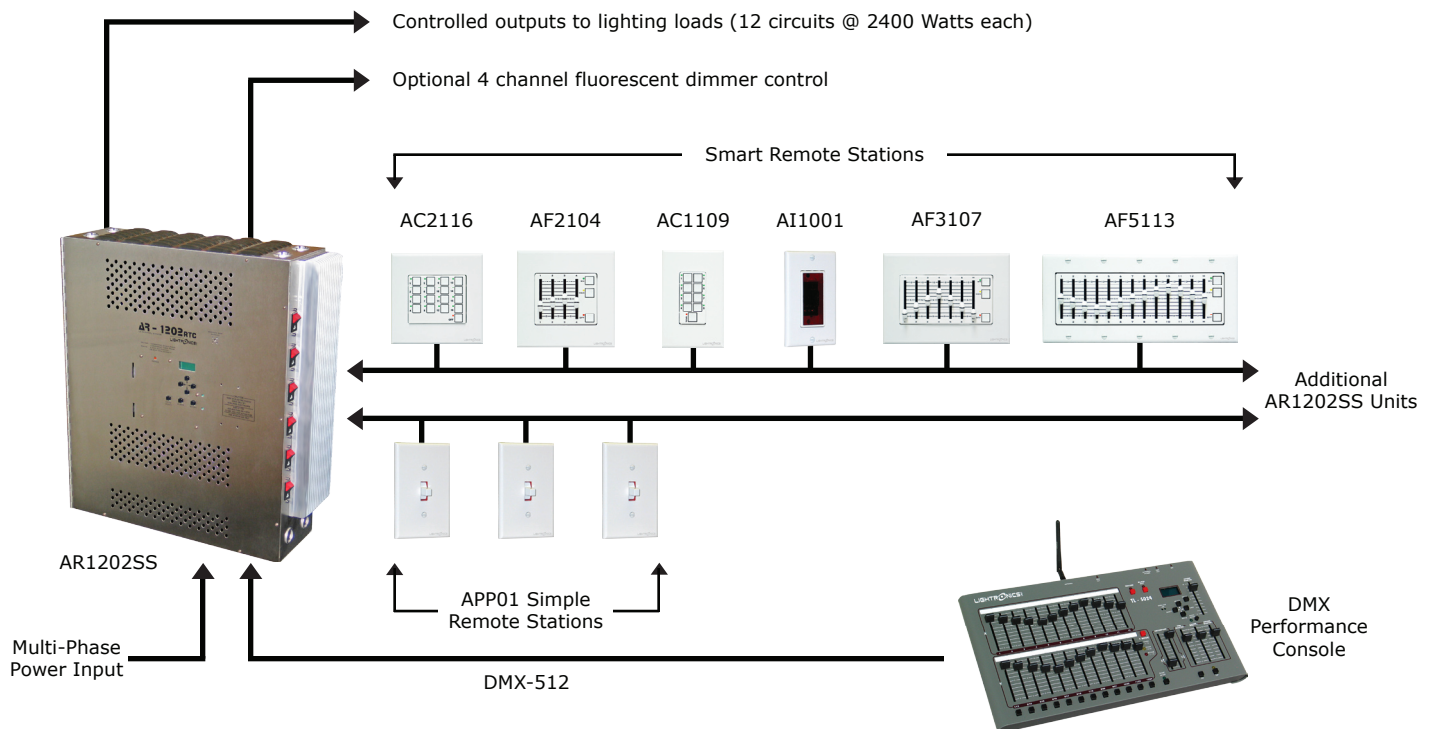
- 12 Channels - 240VAC power output
- 2400 Watts per Channel
- Remote Station Capable
- DMX Input with Softpatch
- Three Phase Delta Power
- Stores 100 Programmable Scenes
- Calendar / Clock Event Scheduler
- "Snapshot" Recording of Scenes
- Stainless Steel Construction
- Eliminates expensive Delta to Wye transformer on ships

AR1202SS



The AR1202SS 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 3 Phase 240VAC, Delta power. The AR1202SS eliminates the need for a bulky and expensive transformer dedicated to the shipboard theatre, which converts from 240VAC Delta to 120/208VAC WYE power. The AS-1202SS uses 3 phase Delta power directly, which saves a great deal of installation costs. Each dimmer channel features a dual pole circuit breaker for maximum safety when servicing fixtures.

## TYPICAL SYSTEM DIAGRAM



## SPECIFICATIONS

|                          |                                                                   |
|--------------------------|-------------------------------------------------------------------|
| Channels / Capacity:     | 12 @ 2400 Watts each                                              |
| Power Requirements:      | 240VAC Three Phase, Delta,<br>60 Amps per leg                     |
| Power Devices:           | 40 Amp Alternistor Triacs                                         |
| Power Connector:         | Terminal Strip                                                    |
| Channel Output:          | Terminal Strip                                                    |
| Circuit Breakers:        | 10 Amp Fast Acting, 2 Pole                                        |
| 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,<br>Bidirectional 9 Bit Network                |
| Control Input:           | DMX-512 USITT<br>Standard with Softpatch                          |
| Front Panel Controls:    | 8 Char. x 2 Line LCD<br>Display and Keypad                        |
| Local Presets:           | 100 Scenes Standard, Expandable<br>to 255 Scenes                  |
| Remote Stations:         | Total of 32 Remote Stations with<br>Unique System Addresses       |
| Slave AR1202SS<br>Units: | Up to 31 Additional AR1202SS<br>Units may be Added (384 Channels) |
| Size:                    | 20.5"W x 21"H x 6.25"D                                            |
| Weight:                  | 80 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 10 Amp fast acting dual 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 240 VAC, Delta, Three Phase operation. Capacity shall be 60 Amps per leg. 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 80 lbs. The dimming system is covered by a 5 year factory warranty.

The dimming system shall be a Lightronics AR1202SS.