

a2i

Dimming Cabinets



3 Module Cabinet



6 Module Cabinet



9 Module Cabinet

Features

- Flexible modular dimming system
- Three cabinet sizes - 3 module (up to 12 circuits), 6 module (up to 24 circuits) and 9 modules (up to 36 circuits)
- Convection cooled
- Fully digital control electronics
- DMX512 input
- Vision.net Architectural control
- ShowNet Ethernet Network option
- Dual or quad IGBT and Standard SCR dimmer modules are available for dimming a wide range of loads
- Modules support incandescent, LED, neon, cold cathode, magnetic low-voltage, electronic low-voltage, PowerSpec HDF, Mark 7, Mark 10, three-wire fluorescent and non-dim loads
- All modules have “focus buttons” on each module to provide local control of each circuit for setup and testing
- All dimmers feature a diagnostic LED indicator to show dimmer status
- A main breaker option is available on 6 and 9 module cabinets
- 120 or 277 volt operation
- UL924 Emergency option
- ETL and cETL listed

PHILIPS
Strand Lighting

SPECIFICATION SUBMITTAL

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Introduction

A21 dimming systems are designed to be flexible and can be tailored to the varying needs of architectural or entertainment applications.

The system is based on three basic elements:

A21 Dimming Cabinet

Each cabinet is a pre-wired enclosure that contains the power modules, a control processor module, internal wiring and load, supply and control terminations. Three cabinet sizes are available for 3, 6 or 9 power modules. A main breaker option is available for 6 and 9 module cabinets. Systems may be ordered for 120 or 277 volt applications.

A21 Power Modules

Dual and quad power modules are available in a variety of ratings for dimming incandescent, tungsten, LED, low voltage, neon and cold cathode loads. Contactor modules can be provided for loads that require a Non-Dim/Switch circuit. Fluorescent modules are available for two, three, or four wire (0-10V) ballasts.

A21 features standard SCR and quiet IGBT dimmer modules that are simple to install and configure. Local controls and dimmer bypass module are supplied for set up and testing during installation. Power modules can be combined within a cabinet to match differing load sizes and types.

A21 Processor Module

The Processor Module provides the power and flexibility of the A21 system. Using digital processing techniques for accuracy and reliability, the processor provides the control signals for the power Modules.

Control inputs include:

- DMX512
- Panic
- Vision.net architectural stations
- Optional ShowNet Ethernet



A21 LCD Display & Processor

Now it is easier to build scalable systems for facilities of any size with inputs for architectural and theatrical controls. The simple-to-use keypad and intuitive LCD menu system makes A21 dimming systems easy to set up and configure.

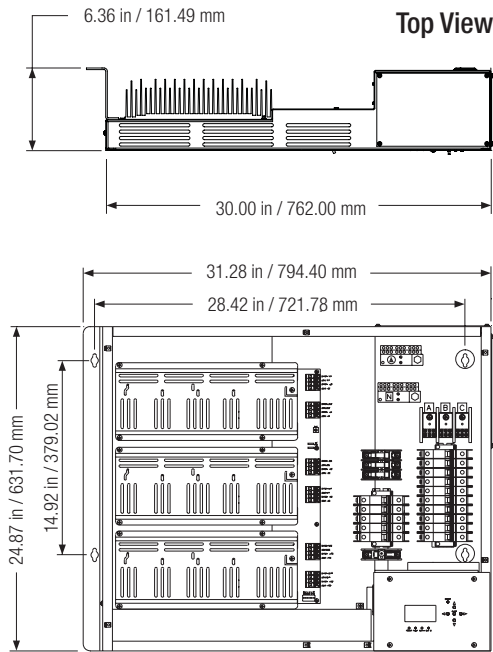
Strand Lighting Vision.net Architectural Control

Connecting A21 to our popular range of Vision.net controls will allow system designers to create and operate easy-to-use lighting systems that fully integrated local control with occupancy sensors and photo cells.

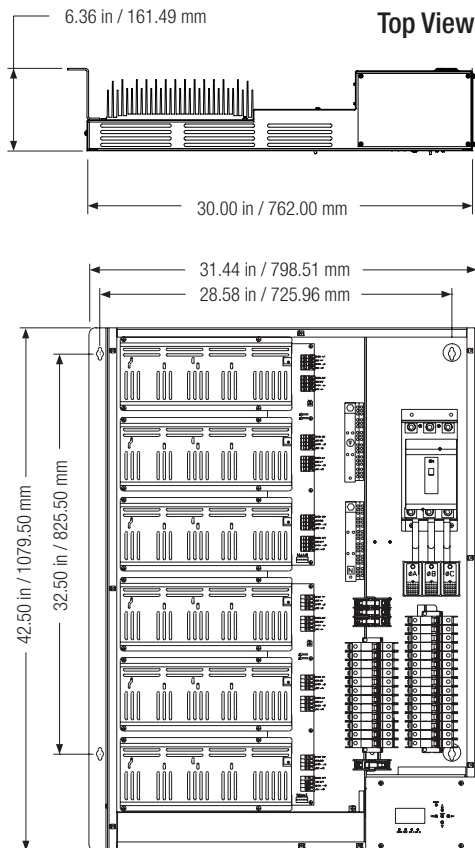


Vision.net Stations and Sensors

3, 6, and 9-Module Cabinets - Dimensional Information



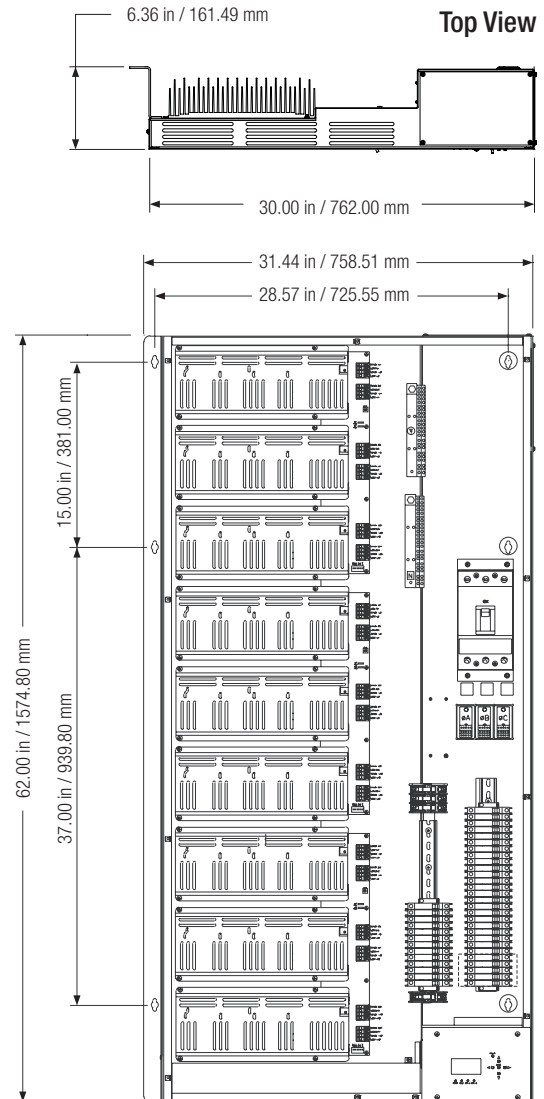
A21 3-Module Dimmer Cabinet



A21 6-Module Dimmer Cabinet

Airflow requirements for all cabinets:

- Top and bottom to be kept clear for ventilation - minimum of 12 inches.
- Right and left sides to be kept clear for ventilation - minimum of 6 inches.



A21 9-Module Dimmer Cabinet

Notes:

- A. 6 and 9 module cabinets shown with optional main breakers (sold separately).
- B. All modules sold separately.
- C. Drawings not to scale. For reference only. Refer to submittal drawings.

Ordering Information

Cat No. Description

A21 Dimmer Cabinets (1) (2)

- 74121** A21 Cabinet, 3 Space
- 74123** A21 Cabinet, 6 Space
- 74130** A21 Cabinet, 9 Space

Notes:

- (1) A21 dimmer cabinets may be populated with either 120V or 277V modules, but not both.
- (2) A21 dimmer cabinets may be ordered factory configured for UL924 circuits.

A21 Incandescent/Inductive Dimmer Modules, 120 Volt

- 74170** Dual 1800 Watt IGBT Dimmer Module
- 74171** Dual 2000 Watt IGBT Dimmer Module
- 74172** Dual 1800 Watt SCR Dimmer Module
- 74173** Dual 2400 Watt SCR Dimmer Module
- 74178** Dual 1800 Watt Non-Dim Module
- 74179** Dual 2400 Watt Non-Dim Module
- 74190** Quad 1000 Watt IGBT Dimmer Module
- 74191** Quad 2000 Watt SCR Dimmer Module
- 74192** Quad 1800 Watt SCR Dimmer Module
- 74195** Quad 2400 Watt Non-Dim Module

A21 Fluorescent Dimmer Modules, 120 Volt

- 74174** Dual 1800 VA (15A) PowerSpec HDF Dimmer Module
- 74175** Dual 2400 VA PowerSpec HDF Dimmer Module
- 74176** Dual 1800 VA Advance Mark 10 Dimmer Module
- 74177** Dual 1500 VA Advance Mark 10 Dimmer Module
- 74180** Dual 2000 VA 3-Wire Fluorescent Module
- 74185** Dual 2000 Watt VA Mark 7, 0-10VDC Dimmer Module
- 74193** Quad 1500 VA Advance Mark 10 Dimmer Module
- 74194** Quad 2000 VA PowerSpec HDF Dimmer Module
- 74197** Quad 2000 Watt VA Mark 7, 0-10VDC Dimmer Module

A21 Incandescent/Inductive Dimmer Modules, 277 Volt

- 74270** Dual 4000 VA SCR Inductive Dimmer Module
- 74273** Dual 4000 Watt Non-Dim Module
- 74274** Dual 2000 VA IGBT Dimmer Module
- 74290** Quad 4000 VA SCR Dimmer Module
- 74293** Quad 4000 VA Non-Dim Module
- 74295** Quad 1000 VA IGBT Dimmer Module

A21 Fluorescent Dimmer Modules, 277V

- 74271** Dual 4000 VA PowerSpec HDF Dimmer Module
- 74272** Dual 3000 VA Advance Mark 10 Dimmer Module
- 74275** Dual 4000 VA Mark 7, 0-10VDC Dimmer Module
- 74291** Quad 2000 VA PowerSpec HDF Dimmer Module
- 74292** Quad 3000 VA Advance Mark 10 Dimmer Module
- 74294** Dual 4000 VA 3-Wire Fluorescent Module
- 74296** Quad 4000 VA Mark 7, 0-10VDC Dimmer Module

A21 Dimmer Cabinet Accessories

Emergency Power Sense

- 74160** Emergency Power Sense (120V)
- 74160-277** Emergency Power Sense (277V)

ShowNet Ethernet

- 74161** ShowNet Ethernet Option

Dimmer Module Blank

- 74181** Blank Dimmer Module

UL924 / Circuit Breakers

- 74163** UL924 Breaker Lock Expansion Kit with 4 Locks (Requires UL924 Dimmer Cabinet)
- 74140** A21 3 & 6 Space Auxiliary Circuit Breaker Kit (3 Circuit Breakers), 15A, 120V
- 74141** A21 3 & 6 Space Auxiliary Circuit Breaker Kit (3 Circuit Breakers), 20A, 120V
- 74142** A21 3 & 6 Space Auxiliary Circuit Breaker Kit (3 Circuit Breakers), 15A, 277V
- 74143** A21 3 & 6 Space Auxiliary Circuit Breaker Kit (3 Circuit Breakers), 20A, 277V
- 74144** A21 9 Space Auxiliary Circuit Breaker Kit (5 Circuit Breakers), 15A, 120V
- 74145** A21 9 Space Auxiliary Circuit Breaker Kit (5 Circuit Breakers), 20A, 120V
- 74146** A21 9 Space Auxiliary Circuit Breaker Kit (5 Circuit Breakers), 15A, 277V
- 74147** A21 9 Space Auxiliary Circuit Breaker Kit (5 Circuit Breakers), 20A, 277V

Philips Strand Lighting

Dallas

10911 Petal Street
 Dallas, TX 75238
 Tel: +1 (214) 647-7880
 Fax: +1 (214) 647-8031

Auckland

19-21 Kawana Street
 Northcote, Auckland 0627
 New Zealand
 Tel: + 64 9 481 0100
 Fax: + 64 9 481 0101

Asia

Unit C, 14/F,
 Roxy Industrial Centre
 No. 41-49 Kwai Cheong Road
 Kwai Chung, N.T., Hong Kong
 Tel: +852 2796 9786
 Fax: +852 2798 6545

Europe

European Service & Distribution Centre
 Rondweg zuid 85
 Winterswijk 7102 JD
 the Netherlands
 Tel: +31 (0) 543-542516

www.strandlighting.com

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