



## 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



### SPECIFICATION SUBMITTAL

CONSULTANT: <input type="text"/>	PROJECT NAME: <input type="text"/>	MODEL NUMBER   QUANTITY: <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
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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.

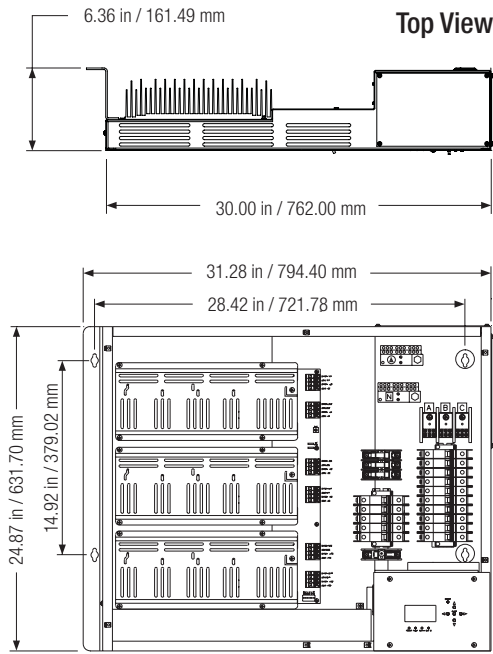
## Vision.net Architectural Control

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.

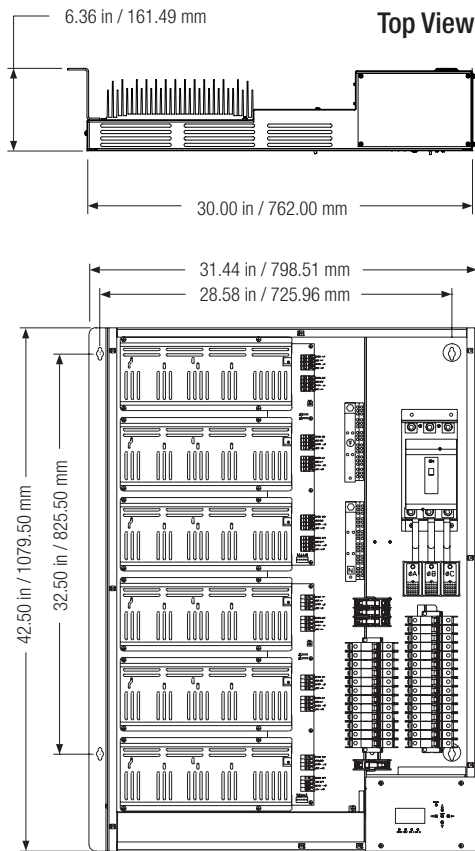


Vision.net Stations and Sensors

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



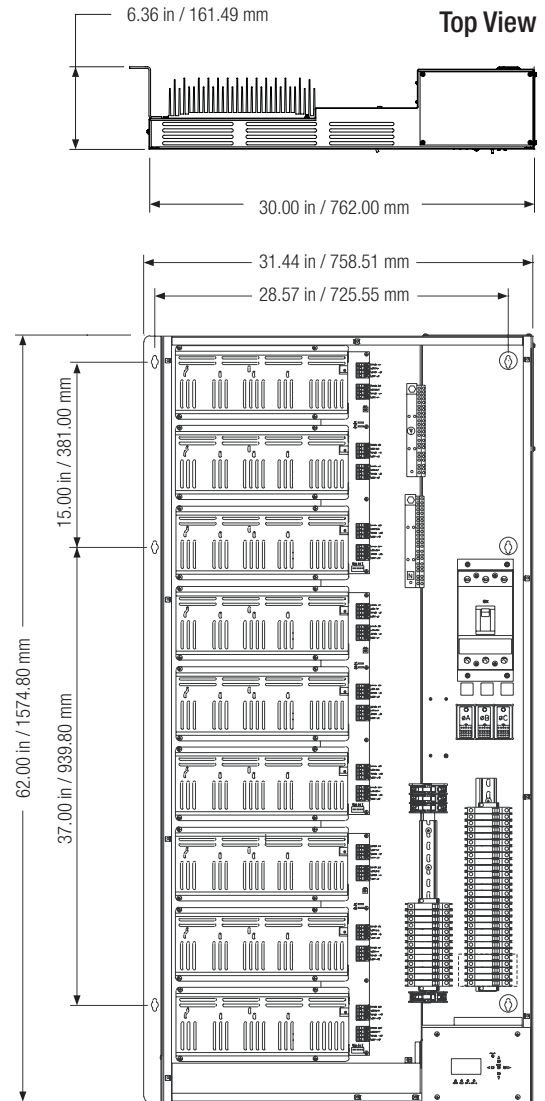
**A21 3-Module Dimmer Cabinet**



**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:**

- 6 and 9 module cabinets shown with optional main breakers (sold separately).
- All modules sold separately.
- 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

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