

ACS-2800L

Automation Control System with Dimming Functionality

An efficient, user-friendly automation product for digital cinema screening



“ The GDC ACS-2800L is an automation control system with dimming functionality specially designed for digital cinemas. It not only provides exhibitors with an efficient means of automatic control over their screening equipment, but also enables smart lighting brightness adjustment.

- With the ACS-2800L, users can control off-line devices such as theatre screen masking and lighting equipment.
- The ACS-2800L eliminates the need for extra dimmers. Its integrated dimming function enables smart lighting brightness adjustment for all kinds of adjustable light sources.
- All basic control and auxiliary buttons required for day-to-day theatre operations can be found on the front panel of the device, allowing manual control at any time and to flexibly respond to situational needs.
- The integrated rack-mount structure and pluggable wiring design make installation, maintenance and replacement easier and faster. ”

Key Benefits

1

Rack-mount Structure

The integrated aluminum alloy structure makes the ACS-2800L lightweight and stable. This compact rack-mount structure replaces the traditional wall-mount design for improved ease of installation, while also saving space. This is ideal for those who prefer centralized installation plans such as boothless projection.

2

Pluggable Wiring Design

Pluggable wiring connectors replace the traditional terminal block. This not only simplifies the installation process and makes it easier to connect new equipment, but also allows highly efficient replacement maintenance for your peace of mind.

3

Multifunctional Control Buttons

The control buttons on the front panel of the ACS-2800L allow for manual control at any time. Lighting brightness can be adjusted in two different ways by pressing or holding down the dimmer button. The brightness of the LED light in the button indicator is synchronized with the brightness of the theatre lighting.

4

Comprehensive Dimming Function

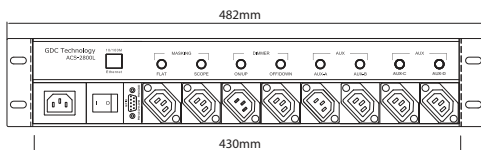
Flexibility: The dimming function of the ACS-2800L allows gradual lighting adjustment over periods of 0 to 60 seconds. Both button control and network control modes allow flexible adjustment of brightness levels from 0% (complete darkness) to 100% (full brightness).

No interference: Without higher harmonic interference with the theatre's power grid, screening problems caused by circuit interference and the electrical hum are avoided.

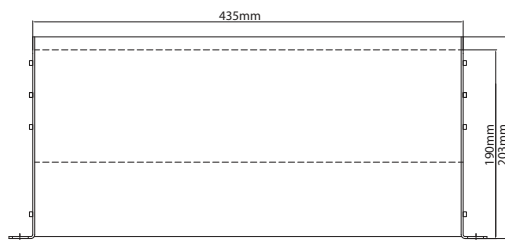
Safety: The ACS-2800L's integrated real-time monitoring function provides timely protection against problems such as short circuits, overloading and overheating, ensuring that the device continue to operate normally when issue arise. Meanwhile, the use of soft start and soft shutdown technology avoids the impart of current surge on lighting devices, prolonging their life span. The input voltage range of 85-240V and output voltage range of 0-240V avoid the problems of "shutdown failure" or "flickering lights".

Technical Drawing

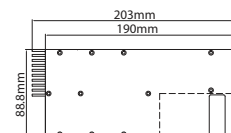
Front View



Top View



Side View



Technical Specifications

Physical

Dimensions	482 (W) x 203 (D) x 88.8 (H) mm
Weight	3.8 kg

Environmental

Operating Temperature	0 - 45°C
Operating Humidity	20% - 90%, non-condensing
Maximum Operating Altitude	2,000m

Power

System Input	100 - 240V, 60/50Hz, 0.5A
Dimmer input	85 - 240V, 60/50Hz, 5A

Outputs

Type	Rated Voltage	Rated Current	Quantity
Relay Passive Output	0 - 240V	0 - 10A	6
Dimmer Active Output	0 - 240V	0 - 5A	1

Control

Front Panel Buttons	8
Button LED Indicator	Support
GPIO Control	Support
Network Control	UDP, TCP

ACS-2800L System Configuration

