

## AUDITORIUM LIGHT CONTROL SYSTEMS

### FEATURES

- Both standalone and automation-dependent models available
- Each unit in its base configuration can control 2,000 watts of incandescent light
- Maximum power capacity of 8,000 watts for analog systems and 16,000 watts for digital systems
- All lighting control cabinets can be configured for either 120 or 220 Volts at the time of order
- Strong's dimmer circuitry comes housed in a custom made, heavy duty 16 gauge steel cabinet with a durable powder-coat finish
- Front mounted circuit breakers and controls are clearly labeled
- Fully grounded front panel and chassis for enhanced safety
- Integral mounting holes to assist with proper installation
- Clearly labeled internal wiring terminations
- Vented cabinet eliminates damaging heat build-up
- All units have U.L. and CE approval
- Time tested circuit reliability



LCS-4K 4,000 Watt Automated Dimmer

#### Overview:

Strong's Light Control Systems are used to create custom lighting effects in the theatre or auditorium. These systems are based on several time-tested automated control circuits and high power dimming technology. Strong's Light Control Systems are dependable and robust units designed to meet all of your automated lighting control and dimming needs.

Setup is quick and easy when using a CNA, especially when used with the CineSuite software package. Our systems give predictable and repeatable user-preset lighting levels. Precise illumination levels and transition times can be programmed for simplicity in obtaining the desired lighting environment in your theatre or auditorium.

Standalone and automation-dependent systems are available in a wide variety of configurations. All base model 2,000 watt dimmers and auxiliary cabinets can be made to handle more power with our convenient upgrade packages.

Whatever your lighting automation and dimming needs, Strong has a model that will provide you with easy to configure, dependable, and flexible power control.



a division of Ballantyne of Omaha, Inc.

# Strong

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| Model#           | Watts <sup>1</sup> | Controller      | Front Panel <sup>2</sup> Controls | Standalone Capable | Compatibility               |
|------------------|--------------------|-----------------|-----------------------------------|--------------------|-----------------------------|
| LCS-2K (37890-0) | 2,000              | QDC-400 Digital | Yes, Keypad & Display             | Yes                | Strong CNA/ eCNA            |
| LCS-4K (39890-1) | 4,000              | QDC-400 Digital | Yes, Keypad & Display             | Yes                | Strong CNA/ eCNA            |
| AD-2K (37891-0)  | 2,000              | 37627 Analog    | Yes, Potentiometers               | Yes                | Any Automation <sup>3</sup> |
| AD-4K (37891-1)  | 4,000              | 37627 Analog    | Yes, Potentiometers               | Yes                | Any Automation <sup>3</sup> |
| CLD-2K (37892-0) | 2,000              | QDC-400 Digital | No, LIN (I/O net only)            | No                 | Strong CNA/ eCNA            |
| CLD-4K (37892-1) | 4,000              | QDC-400 Digital | No, LIN (I/O net only)            | No                 | Strong CNA/ eCNA            |
| LDP-2K (37893-0) | 2,000              | -NA-            | -NA- Auxiliary Cabinet only       | No                 | LCS/ CLD/ QDC Only          |
| LDP-4K (37893-1) | 4,000              | -NA-            | -NA- Auxiliary Cabinet only       | No                 | LCS/ CLD/ QDC Only          |
| AP-2K (37894-0)  | 2,000              | -NA-            | -NA- Auxiliary Cabinet only       | No                 | AD/ 37627 Only              |
| AP-4K (37894-1)  | 4,000              | -NA-            | -NA- Auxiliary Cabinet only       | No                 | AD/ 37627 Only              |

Notes:

1 Base configuration only, does not indicate maximum control capacity.

2 Front panel lighting controls only, circuit breakers present on all models.

3 Any automation or controller with *dry* relay or other suitable switching contacts.

## Flexibility:

For customers with CNA automation systems the LCS and CLD series dimmers are native to the LIN and will integrate seamlessly with all existing I/O devices on the CNA network.

As a less costly approach to automated light dimming, the AD series dimmers can interface with your CNA's Booth or Single termination board outputs.

Each main controller type has an optional auxiliary cabinet that will allow you to control an additional 2-4,000 watts. If you have an existing system with a QDC-400 dimmer controller or a 37627 analog dimmer, the LDP or AP (respectively) can be used to increase your system's power handling capacity.

For installations where no CNA automation is present, Strong's standalone dimmers will provide automated lighting control without additional equipment.

## LCS series: (Digital)

The LCS dimmers feature a 32 character backlit LCD, 4 ten-segment LED bar graph displays, Keypad, and front cabinet mounted manual control switches. The LCS can be programmed for power up states, transition fade times and levels as well as various preset states for House and Stage lighting.

The QDC-400 dimmer control card used in Strong's LCS and CLD lighting control system can control four independent lighting channels. 4,000 watts per channel can be achieved by paralleling two power modules on each channel. This method requires that the lights for each paralleled module be on the same power line phase. This digital controller communicates over the CNA automation's LIN I/O network, or interfaces directly with the user via the front panel controls.

## AD series: (Analog)

The AD dimmers have front panel mounted manual override switches and can be controlled by external switch closures from another device or remote control panel. The AD analog dimmer features a series of potentiometer and DIP switch controls that let the operator specify a power up state, transition times, and up, mid and down level presets. The 37627 analog control board is a 2 channel device that is used in the AD series dimmer. 4,000 watts per channel can be achieved by paralleling two power modules on each channel. This method requires that the lights for each paralleled module be on the same power line phase. Lighting levels are programmed using on board or external potentiometer adjustments. Switch closures trigger lighting events making this controller suitable for integration into non-automated environments and custom control situations. The 37627 can also be connected to the 39332 and 39331 termination boards in CNA automation systems.

## Dimmer Power Modules:

Strong's light control systems utilize hefty 2,000 watt power modules in every dimmer. This robust unit is designed to operate at full load for extended periods of time without overheating or failing.

Modules are efficiently packaged and come pre-wired within your dimmer's housing. This keeps wiring clean for safety and ease of installation.

Strong's dimmer system's modular design makes for faster repairs with less down time, in the unlikely event that a component should fail.



LDP-4K 4,000 Watt  
Auxiliary Dimmer Cabinet