

# CELSUN MAGIC LANTERN CONTROLLER CS 332



Until now, to achieve high screen brightness has involved an illumination system producing excessive amounts of heat. Of course, oil lamps, acetylene and lime-lights are no longer safe or possible. But even modern quartz halogen and projector lamps focus more heat than light on to the lantern slide. LEDs are now widely used for general lighting and being solid state devices produce little heat and infra-red compared with filament lamps.

New flood lighting LEDs have resulted in COB lamp devices being produced at 100 watts with 9000 to 10000+ lumens of light output. These are suitable for magic lantern use because they are an array of 100 tiny LEDs arranged in 10 x 10 grid. Unlike ordinary lamps, the lantern condenser focuses the light evenly over the slide area with no vignetting (shading or high spots) and almost no forward infra-red to fry your valuable slides. The light output is as bright as a 250 - 300 watt QI lamp or an old fashioned 500 watt projector lamp. Such LEDs cannot just be plugged into the mains supply. They need a special low voltage constant current power supply and controller.

Celsun has been able to harness this LED technology by developing a bespoke controllers for Magic Lantern users which takes care of the special power requirements of 100 watt LEDs. Also Celsun has developed a special LED lime-light unit to house and mount the special LED devices to allow simple 'plug and play' installation into vintage



**CS 331 LED LIME-LIGHT**  
ordered separately

[www.celsun.com](http://www.celsun.com)

The Celsun CS332 features smooth dimmers on three channels plus a master for group dimming or to set maximum brightness. One, two or three outputs can be used according to lantern type. Dimming rates or cross fade transitions can be variably timed by an additional speed slider. The brightness can be dimmed right down to totally black and without visible steps. There are indicator LEDs on the control panel to show output status and these can be dimmed too for the darkest environment. A lanternists reading light USB socket gives dimmable illumination for the panel controls or lecture notes. The unit is solidly built from powder coated aluminium and has a standard mains inlet socket and a 10ft (3M) mains lead is supplied. For details of the LED Lime-Lights please see separate CS331 information sheet.

- \* Operates 100 Watt LED Cool Lime-Lights
- \* Suitable for Triunial, Biunial or individual lanterns
- \* Very smooth and controllable dimming sliders
- \* Easy to use and quick to set-up
- \* Automatic variable fades and cross dissolves
- \* Master Fader to fade all or set a max brightness
- \* Smooth fade to black on all without interaction
- \* Socket for dimmable operator's reading light
- \* Remote control option for mini hand controller or lantern gas dissolver replica
- \* Latched XLR sockets for Lantern Outputs
- \* Built in high efficiency electronic transformer for any AC supply voltage
- \* Built to professional standards for reliable operation and a long life

New lamps for old...



High brightness, high quality magic lantern projection without intense heat all made practical by quality engineering

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## Easy Set-up



Front Panel

The CS332 Controller attaches to the LED Lime-Lights in seconds with secure XLR plugs. Mains power to the unit is connected by a standard IEC cable via the right hand side panel switched socket. Once the power is switched on there is a brief calibration cycle where the electronics checks the unit and it is ready for the show.

### CS332 Controller Specifications

Lamp outputs	3
Each output	Constant current mode for LED 37 Volts Max XLR 5pin 2.8 Amps MAX
Dimming	0 to 100% x master 0 - 100%
USB Reading Light Socket	5 Volts nominal 0.5A max
Power supply	200-250 VAC 50/60Hz ( or internal PSU switch) 100- 125VAC50/60Hz
Power consumption	400 Watts Max
Console dimensions	305mm x 165mm x 105mm
Weight	3.5 Kgs / 8lbs
Power Inlet	Switched IEC Socket with neon
Compatible Lamps	Celsun CS331 100 Watt LED



Rear Panel

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