

# TL-F1000

LED Fresnel



- Cool Touch
- 3,200K, CRI > 95
- LED life > 20,000 hours
- DMX512, 1 or 2 channel control
- Wireless DMX built-in option
- Effects include Fire and Strobe
- 1200 watt incandescent equivalent
- Light weight - only 3.9Kg
- Fast PWM option (3840Hz) for TV and film

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***THEATRELIGHT NZ***

## F1000 FEATURES

The TL-F1000 is a white LED Fresnel spotlight suitable for general lighting in small theatres and TV studios, and for exhibition and lighting display including art galleries and museums. It is available fitted with colour runners to hold colour filters and beam shaping barndoors for theatre use, or without colour runners for general display use. The colour runners can be changed by the customer as the parts are supplied for the other model. A number of lens types, wattage ratings, and colour temperature options are available in both models, with either 3 or 5 pin XLR connectors. The F1000 can also be ordered fitted with an internal wireless DMX card by Lumen Radio (WDMX compatible) with either an internal 2dB antenna or external high gain antenna to order. The major benefits over an equivalent spotlight using an incandescent bulb are the marked savings in running costs. The light output exceeds many 1200 watt incandescent Fresnels, but at a little over 10% of the power costs. In addition, whereas most Theatre or TV rated incandescent bulbs are expensive and have a lifetime of under 750 hours, the F1000 has an expected lifetime in excess of 20,000 hours, resulting in much reduced lamp replacement and maintenance costs. The very low Infra-Red and UV output of LED luminaires makes the F1000 ideal for preserving colours in Museum lighting, while beam shaping barndoors with minimal spill make the F1000 an efficient substitute for a FOH profile spotlight. The F1000 LED module is manufactured to Theatrelight specifications using Osram LED chips with an integrated collimating lens, light mask, and PMMA Fresnel lens for maximum optical efficiency in conjunction with a high power factor, universal mains power supply of proven reliability.

### EXTERNAL CONTROLS

**LID LATCH:** The top lid may be removed for cleaning the lenses, or reversed to hide the operators instructions

**COLOUR FRAME LATCH:** Always set this latch forward to prevent colour frames and barndoors from falling out

**TILT KNOB:** Easy friction washer enables one hand point and focus

**FOCUS KNOB:** Fast focus setting - just a quarter turn from unlock to lock

**COLOUR FRAME SLOT:** Use the inner slot for colour frames

**BARNDOOR SLOT:** Use the outer slot for barndoors

### BACK PANEL CONTROLS (5 pin XLR version shown)

**POWER CONNECTOR:** IEC female

**DMX IN/THRU:** XLR 5 pin standard. XLR 3 pin to order

**MODE SWITCH:** Sets fade time and effects  
**3 DIGIT START ADDRESS:** Sets DMX Start address from 1 to 512

**TEST/FLASH/UNLINK KEY:** Flashes the intensity/rate to 100%, cancels DMX held channels, and unlinks Wireless DMX versions if held for over 3 seconds. The internal blue LED mimics LED level, and shows link present in Wireless DMX versions

**STATUS LED:** Green/Red LED indicates DMX and Temperature

**LEVEL KNOB:** Presets level or rate (0 to 100%) for standalone operation

### PHOTOMETRIC DATA

Phosphors 3200°K incandescent TV White and 5,600°K Daylight Film. Beam angles: Spot 7.5°, Flood 45°. Lux measured at beam centre; beam width measured at 50% Lux. Lux tolerance +/- 10%:

#### TL-F1000 Theatre, Spot focus

Distance (m)	2	3	4	5	6	7	8
Beam Diam (m)	0.24	0.36	0.48	0.60	0.72	0.84	0.96
Lux 3200K 95 CRI	60,000	27,000	15,000	9,600	6,600	4,800	3,750
Lux 5600K 95 CRI	75,000	33,300	18,750	12,000	8,3000	6,100	4,700

#### TL-F1000 Theatre, Flood focus

Distance (m)	2	3	4	5	6	7	8
Beam Diam (m)	1.6	2.4	3.2	4.0	4.8	5.6	6.4
Lux 3200K 95 CRI	2,000	900	500	320	220	160	125
Lux 5600K 95 CRI	2,500	1,100	625	400	275	205	155

Your Local Distributor:

## F1000 SPECIFICATIONS

**MODELS:** /T: Theatre version- colour runners fitted, blanking pieces supplied; /D: Display version - blanks fitted, colour runners supplied

**HOUSING:** Anodised aluminium extrusion sides, molded plastic front and back

**COLOUR:** Non-reflective black. Silver and custom colours can be supplied for larger orders

**YOKE:** Anodised aluminium, with easy adjusting tilt friction lock, and adjustable yoke balance point

**WORKING TEMPERATURE:** -30 to +35C ambient

**CASE TEMPERATURE:** 30C maximum above ambient

**WORKING POSITION:** Any

**HUMIDITY:** 95% max, non-condensing

**IP RATING:** IP20 (indoor use only)

**DMX FAIL BEHAVIOUR:** 10 minutes hold, then 5 min fade out for Modes 1-5, off for Modes 6-9

**COOLING:** Variable speed fan cooling. LED level is faded out if over temperature. Fan is off when LED is below 35C

**LED OPTIONS:** Incandescent halogen white (3,200°K ±200K), CRI >95 Film daylight white (5,600°K ±400K), CRI >90 Cool white (8,000°K ±500K), CRI >80 (max output)

Other colour and CRI choices to order

**DIMMING RESOLUTION:** Standard dimming resolution is a 16 bit fade (1 in 64,000) to the 8 bit target resolution (1 in 256) of DMX using just one DMX channel instead of the two channels normally needed for 16 bit dimming. A fast PWM version to eliminate banding can be supplied to special order for Film and TV camera work

**EXPECTED LIFETIME:** >20,000 hours (~10 years at 6 hours per day, 6 days a week)

**INPUT POWER:** 90-250 vac, 50/60 Hz, 200 watts maximum

**STANDARDS:** AS/NZS 3760, CE

**DIMENSIONS:** 295mm long x 210 mm wide x 205 mm high

**WEIGHT:** 3.9 kg, barndoors 0.3 kg

The F1000 is supplied with a colour frame, and a 2m power cable, IEC to 3 pin plug or bare ends to order. Barndoors and Lumen Radio Wireless card with antenna optional.

### CONTROL MODES

The F1000 may be operated as a Standalone light using the potentiometer to set a fixed level or effect, as a One Channel DMX controlled light (modes 1-9), or as a Two channel DMX controlled light (mode 0). In Two Channel mode, DMX one sets the level or rate, while DMX 2 selects the mode from 1-9 - ie sets the fade time or special effect:

**Mode 0:** Sets remote mode where DMX 1 controls level/rate, DMX 2 sets modes 1-9 as below

**Mode 1:** (or DMX 2 = 10% if Mode 0) Fade time matches 250 watt tungsten bulbs

**Mode 2:** (or DMX 2 = 20% if Mode 0) Fade time matches 500 watt tungsten bulbs

**Mode 3:** (or DMX 2 = 30% if Mode 0) Fade time matches 1 kw tungsten bulbs

**Mode 4:** (or DMX 2 = 40% if Mode 0) Fade time matches 2 kw tungsten bulbs

**Mode 5:** (or DMX 2 = 50% if Mode 0) Fade time matches 5 kw tungsten bulbs

**Mode 6:** (or DMX 2 = 60% if Mode 0) Fire fade/flicker effect: Off, slow/dim to fast/bright

**Mode 7:** (or DMX 2 = 70% if Mode 0) Ramp cycle up/dn 0-100%: Off, 10 minutes to 0.5 sec fade cycle

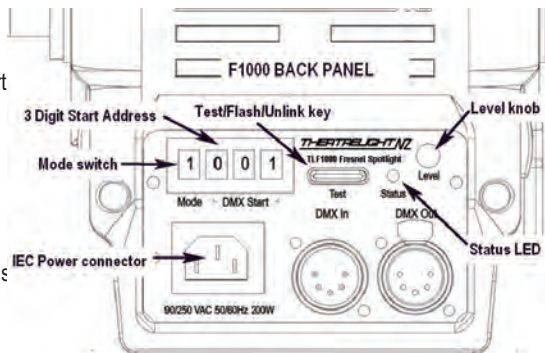
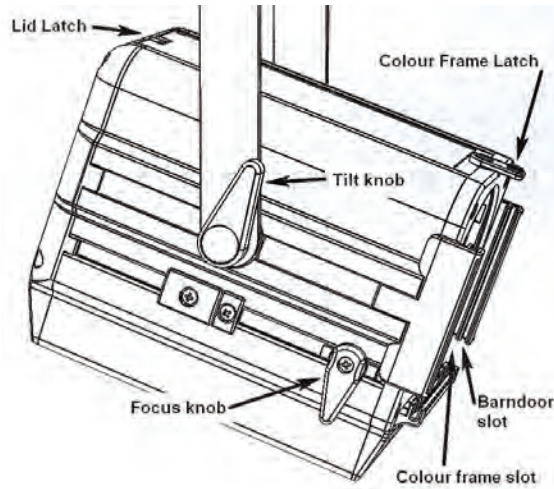
**Mode 8:** (or DMX 2 = 80% if Mode 0) Random flash effect: Off, slow/dim to fast/bright

**Mode 9:** (or DMX 2 = 90% if Mode 0) Strobe flash effect: Off, 1 to 25 flashes per sec

For full specifications, options, and operators manual see TL-F1000 Fresnel Specifications.pdf

TL-F1000 Fresnel Operators Manual.pdf

at <http://theatrelight.co.nz/luminaires/>



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