

F500 FEATURES

The TL-F500 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 model 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, or RJ45 ethernet connectors for DMX over Cat 5 or Cat 6 cable. The F500 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.

The major benefits over an equivalent spotlight using an incandescent bulb are the marked savings in running costs. The light output is similar to many 500/1000 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 F500 has an expected lifetime in excess of 20,000 hours, resulting in much reduced lamp replacement and maintenance costs. Additionally the very low Infra-Red and UV output of LED luminaires makes the F500 ideal for display and Museum lighting. The F500 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

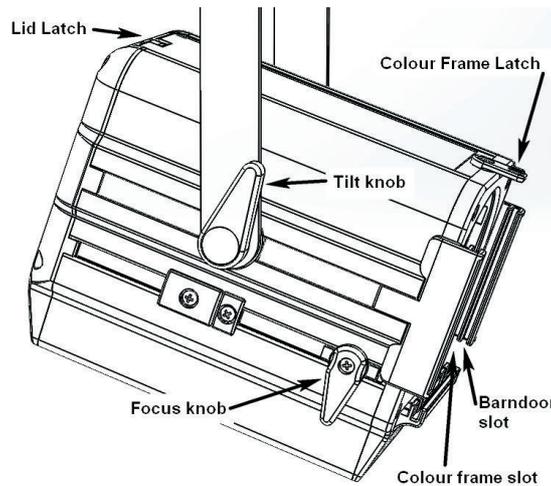
COLOUR FRAME LATCH: Always set this latch forward to prevent colour frames and barndoors from falling out

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

(XLR version only shown)

POWER CONNECTOR: IEC female

DMX IN/THRU: XLR 5 pin standard. Male XLR 3 pin or RJ45 options to order

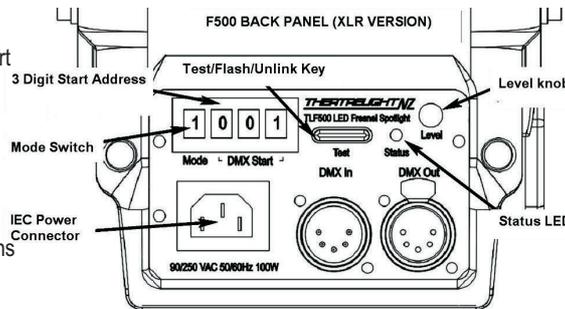
MODE SWITCH: Sets fade and effects

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

3200K 100 watt/16 LED chip model, beam width 5-50 degrees, Lux measurements minimum, +/-10%:

TL-F500T Theatre, Spot focus

Distance (m)	2	3	4	5	6	7	8
Beam Diam (m)	0.3	0.45	0.60	0.75	0.90	1.05	1.20
Lux	30,000	13,333	7,500	4,800	3,333	2,449	1,875

TL-F500T Theatre, Flood focus

Distance (m)	2	3	4	5	6	7	8
Beam Diam (m)	2	3.00	4.00	5.00	6.00	7.00	8.00
Lux	1,000	444	250	160	111	82	63

Your Local Distributor:

F500 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. 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

LED OPTIONS:

Incandescent halogen white (3,200°K ±10%), CRI >95

Neutral white (5,500°K ±10%), CRI >85

Cool white (8,000°K ±10%), CRI >80 (max lumens output)

Other colour and CRI choices to order

DIMMING RESOLUTION: Standard dimming resolution is a 16 bit (1 in 64,000) fade to the 8 bit (1 in 256) target resolution of DMX without requiring the of two DMX channels for 16 bit dimming. A fast PWM version can be supplied for Film and TV camera work

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

LED POWER: 75/100/150 watts depending on model

INPUT POWER: 90-250 vac, 50/60 Hz, 90/110/165 watts max depending on model

STANDARDS: AS/NZS 3760, CE

DIMENSIONS: 220mm long x 180 mm wide x 170 mm high

WEIGHT: 2.4 kg, barndoors 0.3kg

The F500 is supplied with a colour frame, and a 2m power cable, IEC to 3 pin plug or bare ends to order. Barndoors and built in Wireless card optional.

CONTROL MODES

The F500 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-F500 Fresnel Specifications.pdf

TL-F500 Fresnel Operators Manual.pdf

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

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