



## USER MANUAL

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Check that the unit has not been damaged during transport



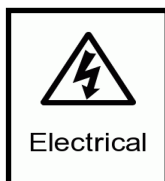
Read all cautions and warnings  
prior to operation of this  
equipment

#### Protection Against Fire



1. Maintain a minimum of 1 foot distance from any type of flame.
3. Replace fuse only with the specified type and rating.
4. Do Not install the unit too close to a heat source.
5. Make sure cables are properly secured
6. Maximum surface operating temperature 140°.

#### Protection Against Electrical Fire



1. Disconnect power before servicing.
2. For connection to main power supply proceed to page 5.
3. This unit must be earthed. (electronically grounded)
4. This fixture must not be left on for long periods of time.

#### Protection Against Mechanical Hazards



1. Use safety chain when hanging unit.
2. Use quality clamps or bolts when positioning unit
3. Do not open unit while it is on, risk of electrical shock.

#### Ingress Protection



The IP rating is commonly expressed as **IP (Ingress Protection)** is followed by 2 numbers (i.e. 65) where the numbers define the fixture rating. The first number indicates the size of a particle that can enter the fixture.. The second number indicates the extent of protection against water entering the fixture. An IP65 rating in this fixture indicates that dust particles can not enter the fixture. And there is protection against powerful water spray from entering the fixture from any direction.

#### Safety Standards



1. This Product conforms to USA and Canada ETL Safety Standards. And has been tested for Stage Lighting Safety Standards UL 1573

# Technical Information

## Part Numbers

7222- Outshine T54

## Mechanical Specifications

**DMX Connectors:** Neutrik 3 pin XLR NC3FXX-HD-D and NC3MXX-HD-D  
IP 67 connectors in and out

**Power connection:** Nema 5-15

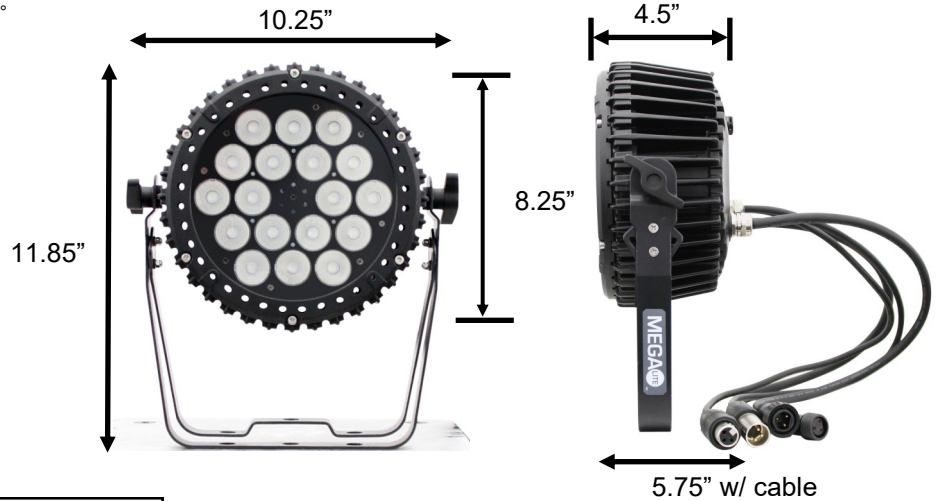
**Thermal:** Maximum ambient temperature 104°  
Maximum surface temperature 140°

**Fastening System:** Dual Yoke

**Display:** Digital

**IP Rating:** Ip65

**Lens Angle:** 16°



Fixture	Packaging
Size: 10.25" x 11.85" x 5.75" Weight: 7lb	Size: 13.5" x 11.25" x 7.5" Weight: 8.75lb

## Electrical Specifications

**LED Quantity:** 18 Tri Color LED's Red, Green, Blue

**LED Watts:** 3W

**LED Lifetime:** 40 to 80 thousand hours average

**Refresh Rate:** 6000 Hz

**Power Input Voltage:** 110V-240 50/60 Hz

**Ballast:** Electronic auto switching

**Power Consumption:** Watts: 57  
Amps: .75

## Control & Programming

**Protocol:** DMX 512

**DMX Modes:** Mode 3 Channels R,G,B  
Mode 4 Channels Dimmer, R,G,B  
Mode 6 Channels Dimmer, R,G,B, Strobe, Macro

**Control Options:** Display preset setting



# Main Power Connection

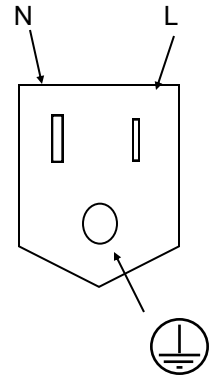
## Caution!

1. Do not connect fixture to a dimmer system.
2. This unit has Auto switching power supply. It will respond to 110V or 220V automatically
3. This unit must be earthed. (electronically grounded)

The occupation of the connection-cable is as follows:

This fixture is equipped with an electronic power supply that will let the unit operate from 100V to 240V from 50Hz to 60Hz

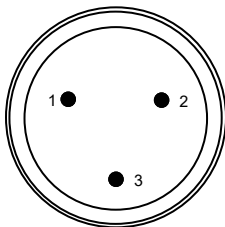
Cable (USA)	Cable (EU)	Pin	110V	220V
Black	Brown	Live	L	L
White	Light Blue	Neutral	N	L
Green	Yellow/Green	Ground		



# DMX-512 Connection

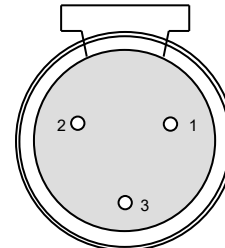
The fixture is equipped with Neutrik NC3FXX-HD and NC3MXX-HD IP 67 3 pin XLR Sockets for DMX input and output. The sockets are wired in parallel. Only use a shielded twisted pair cable designed for RS-485 and 3 pin XLR plugs and connectors in order to connect the controller with the fixture or the fixture with another.

## DMX—input



## DMX—output

1. Shield
2. Signal (-)
3. Signal (+)



## Caution!

At the last fixture the DMX signal needs to be terminated with a terminator. Solder a 120 Ohm resistor between the (-) and the (+) signal into a 3 pin XLR plug and plug it in to the last fixture on the signal run. Pre-manufactured terminator plugs are available for purchase from your Mega-Lite dealer (P-DMX-T).

# Display Menu

## CONTROL BOARD

DMX Ad-	DMX Mode	Red Dim-	Green Dim-	Blue Dimmer	Fade	Fade	Dim Rate
Addr	CHnd	rL--	gL--	bL--	FLAS	FADE	d n-
1-512	3-Ch 4-Ch 6-Ch	0-255	0-255	0-255	00-15	00-15	0-3



● ● ● ●  
Mode Up Down Enter

Press **Mode** to select the display options

**Addr DMX Address**

Press **Enter** to select the DMX start channel use the **up/down** keys, display will be flashing once you have selected the desired start channel Press **Enter** to confirm display will stop flashing.

**CHnd DMX Mode**

This function allows you to select the mode in witch you want to control the Arc 90. Press **Enter** use the **up/down** keys to select desired DMX mode settings. Press **Set Up** to confirm the settings.

3 CH	Red, Green, Blue
4 CH	Dimmer, Red, Green, Blue
6 CH	Dimmer, Red, Green, Blue, Strobe, Macro

**rL-- Red Dimmer**

This function allows you to dim up or down the red LED's . Press Enter use the **up/down** keys to select desired dimmer settings. Press **Set Up** to confirm the settings.

**gL-- Green Dimmer**

This function allows you to dim up or down the green LED's . Press Enter use the **up/down** keys to select desired dimmer settings. Press **Set Up** to confirm the settings.

**bL-- Blue Dimmer**

This function allows you to dim up or down the blue LED's . Press **Enter** use the **up/down** keys to select desired dimmer settings. Press **Set Up** to confirm the settings.

## FLASH Flash

This function allows you to strobe the LED's. Press **Enter** use the **up/down** keys to select desired flash settings. Press **Enter** to confirm the settings.

## FADE Fade Scroll

This function allows you to fade the LED's from one color to another. Press **Enter** use the **up/down** keys to select desired fade speed settings from 0 to 15. Press **Enter** to confirm the settings.

## Dimming Speed

Press **Enter** to select the desired dimming speed. Use the **up/down** keys to select desired dimming fade speed settings from 0 to 3. Zero speed will be the fastest. Press **Enter** to confirm the settings.

## Outshine T54 DMX Profile

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### 3Ch

DMX Chanel	Function	Description	Value
1	LED Color	Red LED intensity	0-255
2	LED Color	Green LED Intensity	0-255
3	LED Color	Blue LED Intensity	0-255

### 4Ch

DMX Chanel	Function	Description	Value
1	Dimmer	Dimmer Off to Full	0-255
2	LED Color	Red LED intensity	0-255
2	LED Color	Green LED Intensity	0-255
3	LED Color	Blue LED Intensity	0-255

### 6Ch

DMX Chanel	Function	Description	Value
1	Dimmer	Dimmer Off to Full	0-255
2	LED Color	Red LED intensity	0-255
3	LED Color	Green LED Intensity	0-255
4	LED Color	Blue LED Intensity	0-255
5	Strobe	Strobe (slow to fast)	0-196
		Random Strobe (slow to fast)	197-255
6	Macro	No Function	0-1
		Color fade (slow to fast)	2-19
		Color Snap (slow to fast)	20-39
		Random (slow to fast)	40-59
		Yellow	60-79
		Purple	80-99
		Aqua	100-119
		Orange	120-139
		Red Pulse	140-159
		green Pulse	160-179
		Blue Pulse	180-199
		Yellow Pulse	200-219
		Aqua Pulse	220-229
		White Pulse	230-249
White LED Full	250-255		



## Rigging the fixture

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### Caution!

1. The installations must be carried out by an authorized dealer or trained professional.
2. Unit may cause severe injures if you have doubts concerning the safety do not install.
3. Unit is to be 24inches away from flammable materials (decoration material)
4. Use high quality installation equipment to hang unit.

When rigging a unit it is very important that you follow common safety procedures. Rigging requires extensive experience including but not limited to calculating working loads, material being used and periodic safety inspections. If you lack these qualifications, do not attempt the installation yourself, instead use a professional structural rigger.

When rigging the unit always be secured with a secondary safety attachment. The installation location of the fixture has got to be built in the way that it can hold 10 times the weight for 1 hour with out any harming. Installation should be checked at least one time a year by a skilled person.

## Cleaning and Maintenance

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**Installation Maintenance:** The operator has to make sure that the unit is operating safely and has the installations and electronics checked by an expert every year.

The following points have to be considered during the inspection:

- 1) All screws used for installing the device or part of the device have to be tightly connected and must not be corroded.
- 2) There must not be any deformations on the housing, fixation and installation spots (ceiling, suspension, trussing).
- 3) The electronic power supply cables must not show any damages, material fatigue (e.g. porous cables) or sediments.  
Further instructions depending on the installation spot and usage have to be adhered by a skilled installer and any safety problems have to be removed.

**Note:** There is no serviceable parts inside the device except for the LED's. Maintenance and service operations are to be carried out by authorized dealers.

**Replacing the fuse:** Only replace the fuse with the same type and rating.

**Replacing the power cable:** If the power cable of this device becomes damaged, it has to be replaced by authorized dealers or trained professional only.

**Should you have further questions , please contact your dealer.**

## Parts List

7221-LED	Replacement LED
7222-MPCB	Main PCB card
7222-PS	Power Supply
7222-DIS	Display
7221-LEDMOD	LED Module
7221-FG	Frontal Glass
7220-KN	Knob Set

## Warranty Information

### Warranty Conditions

-Unless otherwise stated in writing, your product is covered by a one year parts and labor limited warranty.

-LEDs are not guaranteed to match in color temperature or output.

-It is the owner's responsibility to furnish receipts or invoices for verification of purchase, date, and reseller or distributor. If purchase date cannot be provided, date of manufacture will be used to determine warranty period.

-Goods returned under warranty must follow the proper authorization procedure and must be accompanied by a copy of the original invoice and Return Authorization Number given by MSI.

-Goods repaired under warranty will be returned to the owner with the freight prepaid by MSI via the most economical means of shipment.

-Repair or replacement as provided for under this warranty is the exclusive remedy of the consumer. MEGA SYSTEMS INC. makes no warranties, express or implied, with respect to any product, and Mega Systems specifically disclaims any warranty of merchantability or fitness for a particular purpose. Mega Systems shall not be liable for any indirect, incidental or consequential damage, including lost profit, sustained or incurred in connection with any product or caused by product defect or the partial or total failure of any product regardless of the form of action, weather in contract, tort (including negligence), strict liability or otherwise, and weather or not such damage was foreseen or unforeseen.

- Warranty is void if the product is misused, damaged, modified in any way, or for unauthorized repairs or parts. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

## Customer Support

Mega Lite has a customer support line to provide set up help and to answer any question should you encounter a problem. Please visit our website for any other related technical documents. For service related issue please contact our service dept.

Monday—Friday 9am to 6pm CST

Voice: 210-684-2600

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