



TUFFBABY^{VW-42}



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



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 Fire



Electrical

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. IP 64 do not submerge into water.
5. Do not leave fixture on for long periods of time.

Protection Against Mechanical Hazards



Mechanical

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.

Certification



1. This product conforms to UL Standard 1573 and is inspected by ETL Intertek.

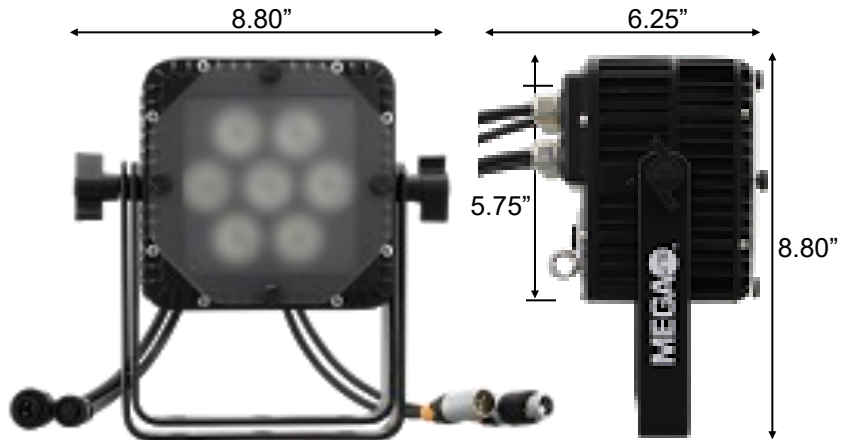
Technical Information

Part Numbers

4102- Tuff Baby VW 42

Mechanical Specifications

DMX Connectors: Weather 3 pin XLR connectors in and out
Thermal: Maximum ambient temperature 104°
 Maximum surface temperature 140°
Fastening System: Double Mounting Yoke
Display: Digital
Power connection: Weather Seal Screw type
Ip Rating: Ip 64



Fixture	Packaged
Size: 8.80" x 6.26" x 8.80"	Size: 10.25" x 10.25" x 11.5"
Weight: 6.4lb	Weight: 7.4lb

Electrical Specifications

LED Quantity: 7	LED Angle: 25°
LED Watt: 6	Diffusion Beam Angel: 30°
Amber: 7	Power Input Voltage: 110V-240 50/60 Hz
Warm White: 7	Ballast: Electronic auto switching
Cool White: 7	Power Consumption Watts: 33
	Amps: .48
LED Lifetime: *60 to 100 thousand hours Average	

Control & Programming

DMX 512 Protocol

DMX Modes: Mode 1 3 Channels Amber, Warm White, Cool White
 Mode 2 4 Channels Dimmer, Amber, WW, CW
 Mode 3 6 Channels Dimmer, Amber, WW, CW, CTO, Strobe

Control Options: Audio Trigger, Master Slave





Main Power Connection

Caution!

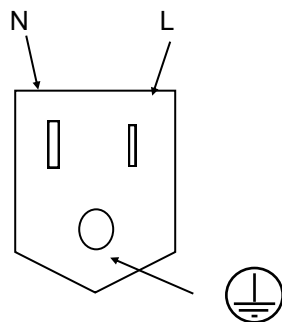
1. Do not connect fixture to a dimmer system.
2. This unit has Auto switching power supply. It will respond to 110V or 220V automatically
3. This unit must be earthed. (electronically grounded)
4. Replace fuse only with the specified type and rating.

The occupation of the connection-cable is as follows:

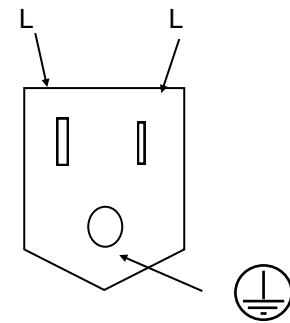
This fixture is equipped with an electronic power supply that will let the unit operate from 90V to 240V from 50Hz to

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

110V
Connection



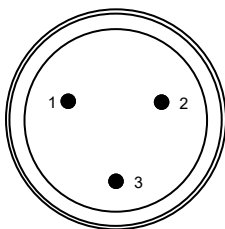
220V
Connection



DMX-512 Connection

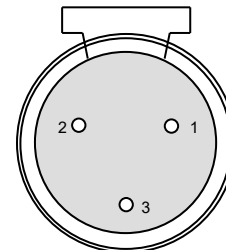
The fixture is equipped with 3 pin XLR Sockets for DMX input and output. The sockets are wired in parallel. Only use a shielded twisted pair cable designed for RS-485 and 3 pin outdoor XLR plugs and connectors in order to connect the controller with the fixture or the fixture with another.

DMX—input



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

DMX—output



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.

Display Menu

CONTROL BOARD

The control board on the fixture is your interface to access and control all the functions on the unit. Its digital display gives you a code view of the options and functions. The following will explain each function and its options.



Menu Up Down Enter

DMX Address	DMX Mode	Amber Dimmer	Warm White Dimmer	Cool White Dimmer	Strobe	Fade	Dimming Curve	Display
Addr	CHnd	AL--	UU--	CU--	FLAS	FADE	d.in-	d.s-
1-512	A-3-Ch P-4-Ch H-6-Ch	0-255	0-255	0-255	0-15	0-15	0-4	On Off

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 which you want to control the fixture. Press **Enter** use the **up/down** keys to select desired DMX mode settings. Press **Enter** to confirm the settings.

3 CH	Amber, Warm White, Cool White
4 CH	Dimmer, Amber, Warm White, Cool White
6 CH	Dimmer, Amber, Warm White, Cool White, CTO, Strobe

AL-- Amber Dimmer

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

UU-- Warm White Dimmer

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

CU-- Cool Dimmer

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

FLASH Flash

This function allows you to select a preprogrammed strobe sequences. Press **Enter** use the **up/down** keys to select desired strobe program (15 options). Press **Enter** to set the desired speed use the **up/down** keys (15 options). Press **Enter** to confirm the settings.

FADE Fade

This function allows you to select a preprogrammed fade sequences. Press **Enter** use the **up/down** keys to select desired fade program (15 options). Press **Enter** to set the desired speed use the **up/down** keys (15 options). Press **Enter** to confirm the settings.

DMX Dimming Speed

Press **Enter** to select the desired dimming speed when used with a DMX controller. Use the **up/down** keys to select from 0 to 3. 0 speed will be the fastest 4 will be the slowest. Press **Enter** to confirm.

POW Power Info

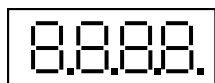
Informs you power input voltage

TEM Temp

Fixtures operating temperature information

DMX Indicator

CONTROL BOARD



When DMX Signal is being received the last point on the control board display will flash. If there is no DMX signal present it will be off.



Menu Up Down Enter

DMX Profile

Tuff Baby VW 3Ch A Mode

DMX Channel	Function	Description	Value
1	LED Color	Amber LED intensity	0-255
2	LED Color	Warm White LED Intensity	0-255
3	LED Color	Cool White LED Intensity	0-255

Tuff Baby VW 4Ch P Mode

DMX Channel	Function	Description	Value
1	Dimmer	Dimmer Off to Full	0-255
2	LED Color	Amber LED intensity	0-255
3	LED Color	Warm White LED Intensity	0-255
4	LED Color	Cool White LED Intensity	0-255

Tuff Baby VW 6Ch H Mode

DMX Channel	Function	Description	Value
1	Dimmer	Dimmer Off to Full	0-255
2	LED Color	Amber LED intensity	0-255
3	LED Color	Warm White LED Intensity	0-255
4	LED Color	Cool White LED Intensity	0-255
5	CTO	2800K to 8000K	0-255
6	Strobe	Strobe (slow to fast)	0-196
		Random Strobe (slow to fast)	197-255

Rigging the fixture

Caution!

1. The installations must be carried out by an authorized dealer or trained professional.
2. Unit may cause severe injuries if you have doubts concerning the safety do not install.
3. Unit is to be 24 inches 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

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 2 years.

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. 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

4102-LED	Replacement LED
4102-MPCB	Main PCB card
4100-PS	Power Supply
4102-DIS	Display
4100-DF	Removable Diffusion Filter
4100-DRI	LED Driver PCB
4100-KNOB	Knob Set

4100-POW1M	1 Meter Power jumper cable
4100-POW8M	8 Meter Power jumper cable
4100-RL	Removable Diffusion Lens
4100-BD	Removable Barn Door

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.

-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.



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