OPERATION MANUAL

MZ-LIGHTING

SMD LED LIGHTS
MZ-LED884
MZ-LED336
MZ-LED176

CONTENTS

INTRODUCTION

General Description:

MZ-Lighting SMD LED Lights are products of high quality for Film and Video/Photo productions.

Materials:

SMD LEDs are made in Japan.
All Rest Materials are made in Europe.
Assembling takes place in Greece.

Warranty:

All our products have 2 years Warranty. We have all spare parts and products in stock for immediate repair or exchange. (See Page 36)

Support:

If you bought a faulty MZ product you should contact with your local dealer or distributor. They will be happy to help you and solve the problem. If the product is in the warranty period, they will exchange it with a new one or they will repair it out of charge. Warranty is void upon inappropriate use. Be aware that you should never open the dimmer or the main light body.

Certificates:

CE

GENERAL FEATURES

JAPANESE SMD LEDs

We are using Japanese SMD LEDs in order to build high quality LED Lights with CRI 97 or Extended CRI 95 for Film and Video productions.

LOW HEAT

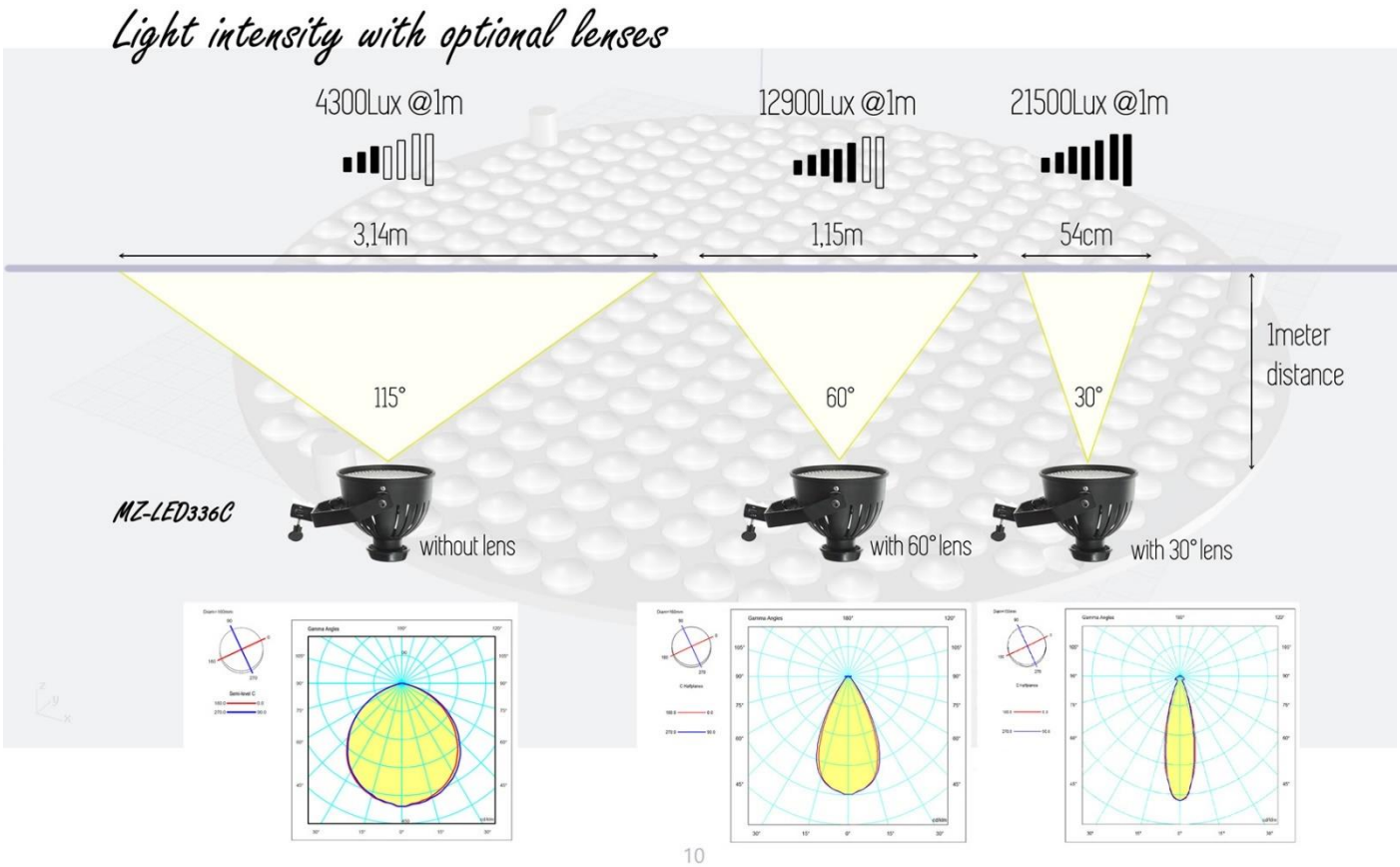
SMD LEDs cannot be easily overheated so you can use them in harsh environments with high temperatures.

VERY POWERFUL

We have chosen powerful and efficient SMD LEDs. That's why MZ LED lights have more lighting intensity with much less power consumption comparing to common LED lights.

115° LIGHT BEAM

MZ LED lights have a 115° light beam for more light coverage and efficiency than common LED lights. In that way you can come closer to your subject for more lighting intensity with no dark spots. Optional high quality MZ Lenses are now available to convert the 115° light beam to 60° or 30° light beams with huge increase of intensity in longer distances.



PC-BOARD

For more lighting efficiency we have used high quality dual layer Aluminum PC-Boards with advanced electronic circuits. Extra holes on the PC-Board are used for better cooling.

BODY

Light bodies and dimmer cases are made of lightweight aluminum for the best possible cooling and durability.

HEAT SINK

We are using 240mm, 150mm, 105mm and 84mm specially designed aluminum heat sinks. They are connected directly to the aluminum body of our LED lights for the best possible cooling.

SILENT OPERATION

MZ LED lights have silent operation because they don't use any fans for the cooling. Moreover, the electronic circuit of the Dimmer does not cause any electromagnetic interferences to wireless audio and video systems. So, they are ideal for studios, video shootings and conferences.

LIGHTWEIGHT

Our LED lights are very light and portable. We have used Lightweight and durable materials such as Aluminum and Copper. MZ lights have at least half size and half weight than common LED panels.

DC INPUT

The input Voltage for the LED884 is 27-35V and for the LED336 & LED176 is 7-17V. In that way you can use all kind of Professional Batteries. Such as 14.8V V-Lock and G-Lock Batteries, 7.2V NP-F batteries and all kinds of 12V input sources.

4-PIN XLR

The professional 4-pin XLR Male power connector allows you to connect many different input sources to power on the MZ LED lights.

BATTERY ADAPTERS

You can connect many different kinds of power adapters to the 4-pin XLR Connector. Single or Dual adapters for 7.4V NP-F batteries and 14.8V V-Lock/G-Lock Batteries. With the D-TAP power cable adapter you can connect V-Lock or G-Lock batteries directly, without the need of battery plates.

MZ-NPF-Single for one Sony NPF type battery. This adapter can be used only for the MZ-LED176 lights with Boost disabled. It is equipped with Tripod Clamp and XLR 4-pin Female Connector 7-8.4V DC output.

MZ-NPF-Dual for two Sony NPF type batteries. This adapter is equipped with Tripod Clamp and XLR 4-pin Female Connector 14-16.8V DC output. It can be used for both MZ-LED336 and MZ-LED176 LED lights.

MZ-Vlock for one Sony Vlock type Battery. This adapter is equipped with Tripod Clamp, D-Tap output and XLR 4-pin Female Connector 14-16.8V DC output. It can be used for both MZ-LED336 and MZ-LED176 LED lights.

MZ-Vlock-Dual-14.8V with redundancy for two Sony Vlock type Batteries. Your MZ light will work

unstoppable even when you remove one battery. This adapter is equipped with D-Tap output and XLR 4-pin Female Connector 14-16.8V DC output. It can be used for both MZ-LED336 and MZ-LED176 LED lights for long lasting shootings.

MZ-Vlock-Dual-29.6V for two Sony Vlock type Batteries. This adapter is equipped with D-Tap output and XLR 4-pin Female Connector 28-33.6V DC output.. It can be used only for the MZ-LED884 LED lights.

MZ-Glock-Dual-14.8V with redundancy for two Panasonic Glock type Batteries. Your MZ light will work unstoppable even when you remove one battery. This adapter is equipped with D-Tap output and XLR 4-pin Female Connector 14-16.8V DC output. It can be used for both MZ-LED336 and MZ-LED176 LED lights for long lasting shootings.

MZ-Glock-Dual-29.6V for two Panasonic Glock type Batteries. This adapter is equipped with D-Tap output and XLR 4-pin Female Connector 28-33.6V DC output. It can be used only for the MZ-LED884 LED lights.

POWER SUPPLIER

You can even use the high quality MZ power supplier units to giver power to your LED lights from AC plug. They are high quality Class-I adapters with grounding for overvoltage protection.
8.4V/30Watt for MZ-LED120
15V/80Watt for MZ-LED176
15V/120Watt for MZ-LED336
30V/240Watt for MZ-LED884

PROTECTION

The Dimmers of our LED lights have an electronic circuit which protects the light from overheat and sources with opposite polarity. So, when overheat takes place, the intensity of the lighting will be decreased accordingly in order to prevent damage of the light. Whereas, when opposite polarity sources are connected, the light will not power on so as to prevent any kind of damage.

FLICKER FREE

Our LED Lights are flicker-free. Tests were done with a Cinema Camera in all steps of shutter speed up to 1/10000 and all steps of frame rate up to 800fps!

STABLE LIGHTING

MZ Dimmer uses an advanced electronic circuit in order to protect the LED light from power drops. So, even when the Voltage of the battery is dropping, the lighting intensity remains the same until the battery runs out.

POWER BOOST

All MZ Dimmers have Boost function for extra lighting intensity. When BOOST is enabled you get the most from your MZ LED light. When BOOST is disabled there is less power consumption and you get more operating hours. This is an important feature when smaller batteries are used.

BICOLOR COOL WARM

We have full range of LED Lights. Bicolor, Cool and Warm LED Lights. In Bicolor LED lights you can change

the color temperature from warm to cool by using the advanced MZ dimmer. In cool or Warm LED lights you can change the color temperature by using the MZ polycarbonate filters.

2 MODES
Bicolor MZ Dimmers have two modes for controlling the color temperature. Balanced and Separate mode. *(Page. 9-19)*

Balanced Mode:
You can change the intensity and the color temperature separately.

Separate Mode:
You can change the intensity of the warm lighting and the intensity of the cool lighting separately.

MOUNT
The LED light body has a yoke metal base that is easily attached to a 16mm spigot. So, the MZ LED lights can be easily adapted in any kind of tripods and clamps. The Dimmer is equipped with a ¼" thread and can be easily adapted on light tripods with magic arms and clamps like the MZ-Clamp-Kit.

2M CABLE
2m Cable connects the dimmer with the LED light body. In that way you can control the MZ LED light easily even when a 4m tripod is used. MZ power suppliers are equipped with an extra 1.5m cable.

FILTERS
All MZ Filters are high quality polycarbonate filters which come with magnets for easy direct attachment on the LED Boards. The available filters are: Diffuser, Warm (3200K), Cool (5600K), Yellow, Red, Brown and Dark Green.
- The MZ Filters for the LED176 have 105mm diameter and they come with 3 strong magnets.
- The MZ Filters for the LED336 have 150mm diameter and they come with the same 3 strong magnets.
- The MZ Filters for the LED884 has 240mm diameter and they come with 4 strong magnets.

Diffuser
Softens the edges of the shadows
Light Intensity is decreased by 20%

Warm Filter
Converts the 5600K color temperature to 3200K
Converts the 4100K to 2600K
Converts the 3100K to 2200K
Light Intensity is decreased by 20%

Cool Filter
Converts the 3100K color temperature to 5600K
Converts the 4100K to 8500K
Converts the 5600K to 13000K
Light Intensity is decreased by 35%

Yellow Filter
Converts the 5600K color temperature to 3600K
Converts the 4100K to 3110K
Converts the 3100K to 2600K
Light Intensity is decreased by 20%

Red Filter
Light Intensity is decreased by 60%

Brown Filter
Light Intensity is decreased by 25%

Dark Green Filter
Light Intensity is decreased by 90%

BARNDOORS
We build high quality 4-leaf barndoors with Gel Clips for all the range of our LED lights. They are attached easily on the Light bodies with a single screw. They are used for directional lighting and eliminate any unwanted spilling light on the background.

SOFTBOXES
We have available high quality softboxes in different shapes and dimensions. They are attached directly on the light body with a rotatable metal base with screws. They are high heat resistant and they have two recloseable holes to allow air flow for better cooling.

The available Models are:
Softbox 60x60 *60x60cm with two Diffusers.*
Softbox 60x60-Grids *60x60cm with two Diffusers and Grids.*
Softbox 90x90 *90x90cm with two Diffusers.*
Softbox 90x90-Grids *90x90cm with two Diffusers and Grids.*
Softbox 23x90 *23x90cm with two Diffusers.*
Softbox 23x90-Grids *23x90cm with two Diffusers and Grids.*
Softbox 30x120 30x120cm *with two Diffusers.*
Softbox 30x120-Grids 30x120cm *with two Diffusers and Grids.*

Softboxes work by confining the light from a lamp into a closed chamber and releasing it through at least one layer of diffusion material. As the light passes through the translucent fabric it scatters, producing a very even and soft result.

Almost every professional photographer and videographer uses softboxes. There's nothing like a softbox when it comes to providing soft light for any style of shooting. Fashion, food, product, portraiture, you name it. Even when they aren't used as the key light source, softboxes play an important role for fill, separation and edge lighting.

Softboxes reduce contrast, conceal skin blemishes, and soften the edges of the shadows. Softboxes with Grids are able to focus the light on their targets and eliminate any spilling light on the background.

METAL SNOOT

Metal directional snoots with color filters are available for all the MZ LED lights. These Metal snoots are used for directional lighting and for changing the color temperature with the included filters. They are mostly used in theaters and events. The available filters are: Blue, Red, Green, Orange. In front of the snoot there is a removable directional adapter with Grids and filter holder.

HOW TO USE

STANDARD DIMMER

Step.1
When you open the box you should find:
- The light body with 2m cable.
- Standard Dimmer with XLR 4-pin male connector.
- Power Supplier with 1.5m cable and XLR 4-pin female connector (PSU is not included in the bulk version).

Step.2
Put the power supplier in the AC Plug and connect the XLR 4-pin female connector to the XLR 4-pin male connector of the Dimmer.

Step.3
Turn on the Dimmer by pressing the ON/OFF switch at the side of the dimmer.

Step.4
You should select the mode that you want to use by pressing the mode switch on the top of the dimmer. Mode Selection is available only for bicolor lights.

Mode I:
The first potentiometer controls the lighting intensity and the second one the color temperature. When Mode I is selected you should always check the left side of the labels. See diagram No.2.

Mode II:
The first potentiometer controls the intensity of the warm lighting and the second one the intensity of the cool lighting. When Mode II is selected you should always check the right side of the labels. See diagram No.2.

For non-bicolor lights (warm and cool lights) the potentiometer controls the lighting intensity. There is no mode selection. See diagram No.4

Step.5
Boost switch at the side of the dimmer will enable/disable boost. If you are using a small battery then we recommend you to disable it for extra operating time. If you use bigger batteries or power supplier you can enable it for extra lighting intensity! See diagram No.1. Check the lighting intensity and power consumption when boost is enabled/disabled in page 7.

Important: When DC input source is higher than nominal the light will not power on. Whereas when input source is less than nominal the MZ light will start blinking.

DIAGRAM 1 (Bicolor Light - Standard Dimmer)

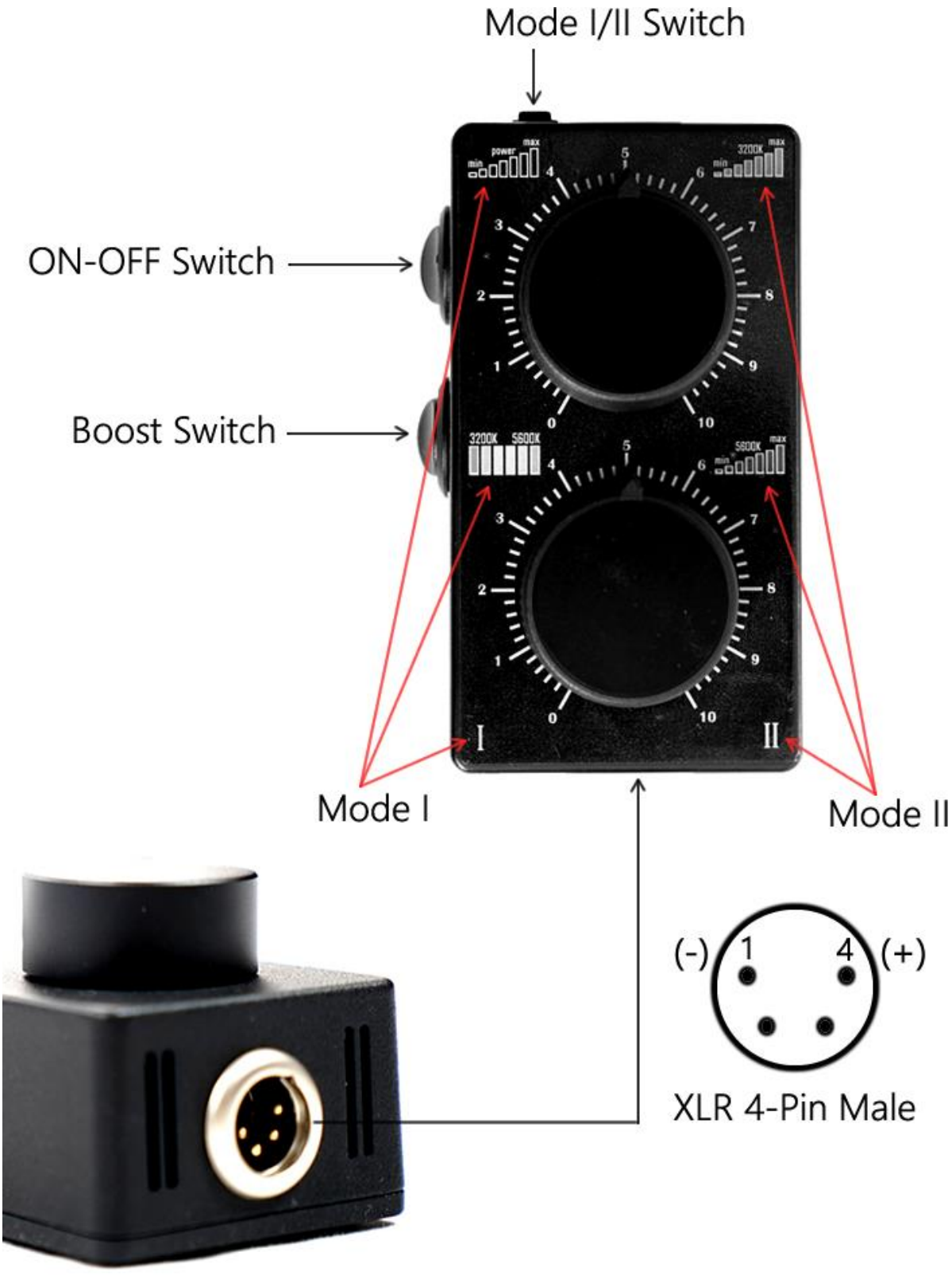


DIAGRAM 2 (Cool or Warm Light - Standard Dimmer)

DIMMER WITH OLED SCREEN

Step.1

When you open the box you should find:
- The light body with 2m cable.
- Dimmer with OLED Screen and XLR 4-pin male connector.
- Power Supplier with 1.5m cable and XLR 4-pin female connector (PSU is not included in the bulk version).

Step.2

Put the power supplier in the AC Plug and connect the XLR 4-pin female connector to the XLR 4-pin male connector of the Dimmer. See Diagram No.3.

Step.3

Press the ON/OFF switch on the top of the dimmer. The OLED screen will turn on and the "MZ Lighting" message will appear on the screen.

Step.4

When you hold the knob pressed for 3 seconds you will enter the menu. The following Menu will appear:

▸MODE I/II
BOOST ON/OFF
DMX (NOT INSTALLED)
INFO
EXIT

By turning the knob, you can navigate through the menu. Press the knob ones to select or change values. When you don't use the dimmer for 10sec, the knob will be disabled. To enable it press it ones.

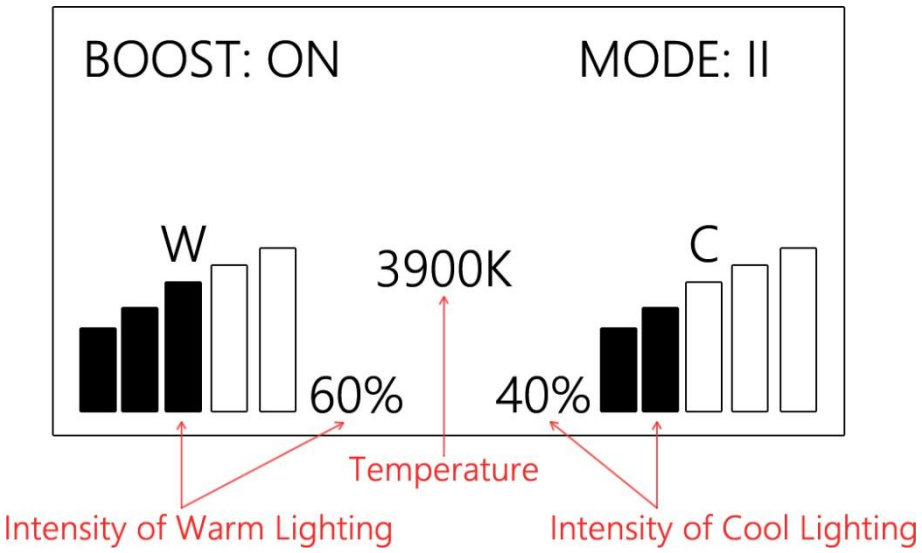
Step.5

Mode I:

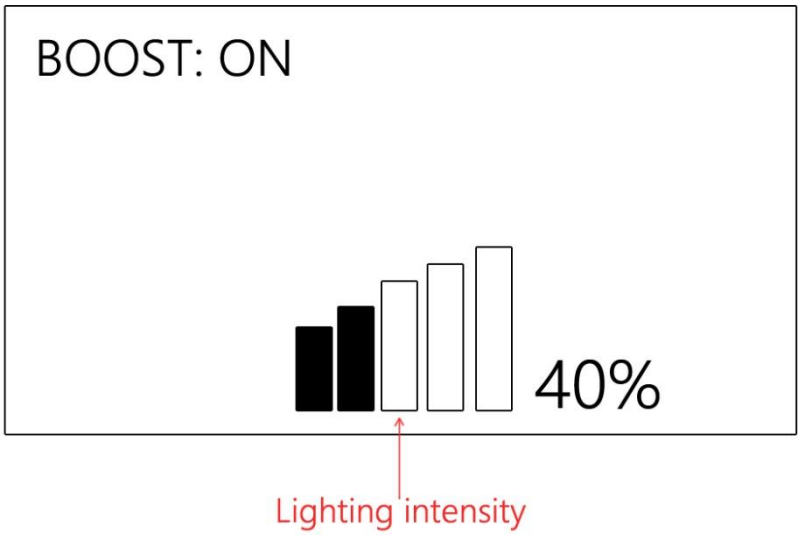
You can Control the intensity of the lighting and the color temperature separately. With "Mode I" enabled the screen is as below:

Mode II:

You can Control the intensity of the warm and cool lighting separately. With "Mode II" enabled the screen is as below:



For non-bicolor lights (warm and cool lights) there is no mode selection. The screen is as below.



Step.6

You can enable or disable boost. If you are using a small battery then we recommend you to disable it for extra operating time. If you use bigger batteries or power supplier you can enable it for extra lighting intensity! Check the lighting intensity and power consumption of the MZ LED lights when boost is enabled/disabled in page 7.

Step.7

By selecting "INFO" in the menu you can see the model of your LED light, firmware version and operating hours.

Important: When DC input source is higher than nominal the light will not power on. Whereas when input source is less than nominal the message "Low Voltage" will appear on the screen.

DIAGRAM 3 (Dimmer with OLED SCREEN)

DIMMER WITH OLED SCREEN & DMX CONTROL

Step.1

When you open the box, you should find:
- The light body with 2m cable.
- Dimmer with OLED Screen & DMX Control and XLR 4-pin male connector.
- Power Supplier with 1.5m cable and XLR 4-pin female connector (PSU is not included in the bulk version).

Step.2

Put the power supplier in the AC Plug and connect the XLR 4-pin female connector to the XLR 4-pin male connector of the Dimmer. See Diagram No.4.

Step.3

Press the ON/OFF switch on the top of the dimmer. The OLED screen will turn on and the "MZ Lighting" message will appear on the screen.

Step.4

When you hold the knob pressed for 3 seconds you will enter the menu. The following Menu will appear:

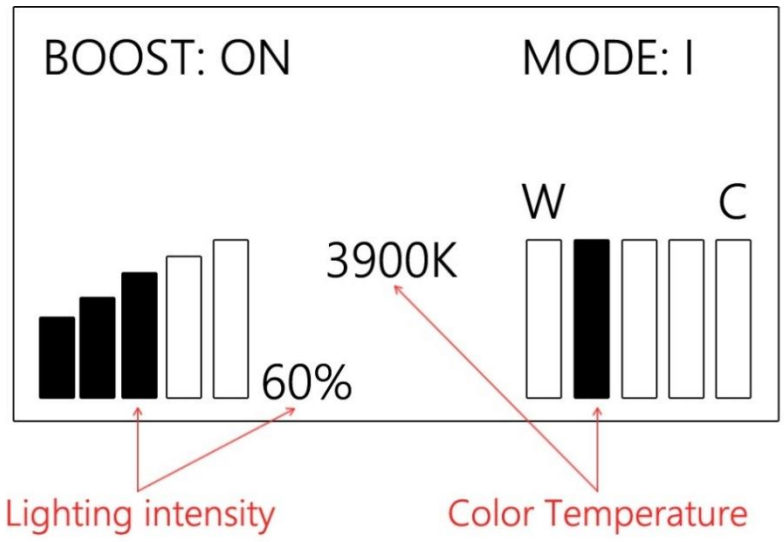
▸MODE I/II
BOOST ON/OFF
DMX
INFO
EXIT

By turning the knob, you can navigate through the menu or change DMX Address. Press the knob ones to select or change values. When you don't use the dimmer for 10sec, the knob will be disabled. To enable it press it ones.

Step.5

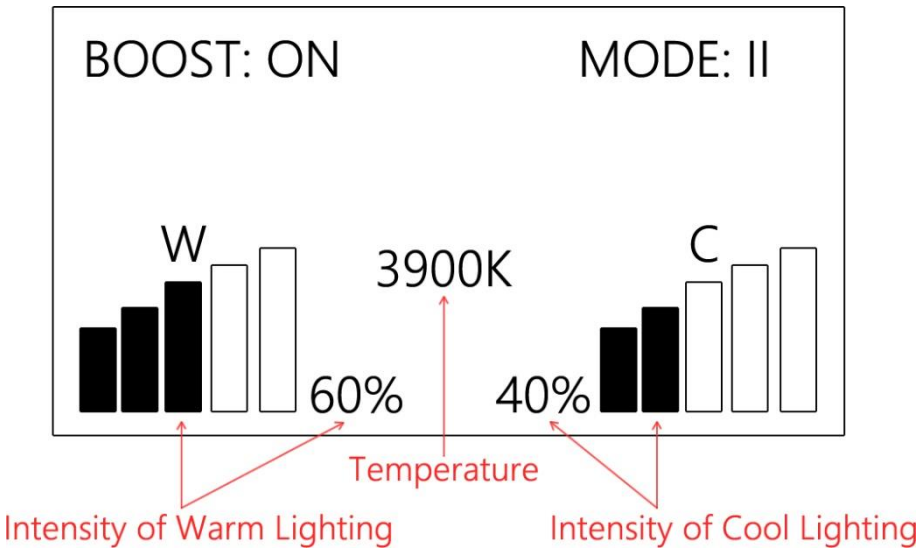
Mode I:

You can Control the intensity of the lighting and the color temperature separately. With "Mode I" enabled the screen is as below:

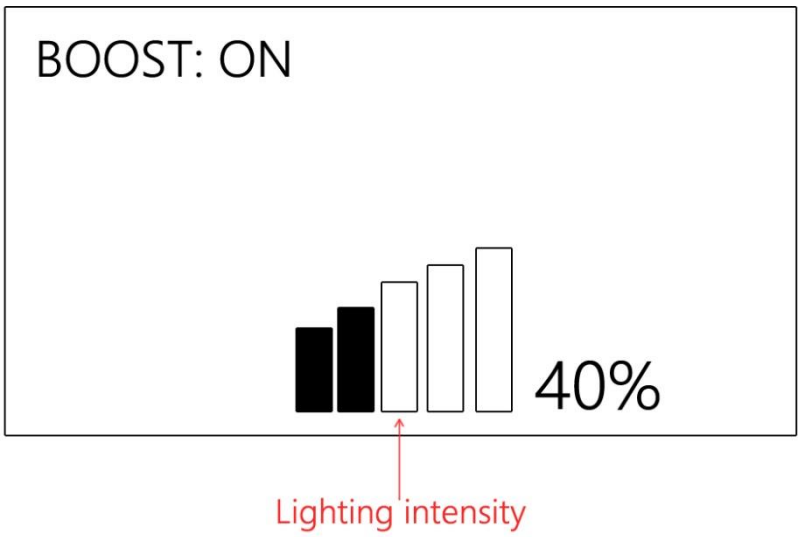


Mode II:

You can Control the intensity of the warm and cool lighting separately. With "Mode II" enabled the screen is as below:



For non-bicolor lights (warm and cool lights) there is no mode selection. The screen is as below.



Step.6

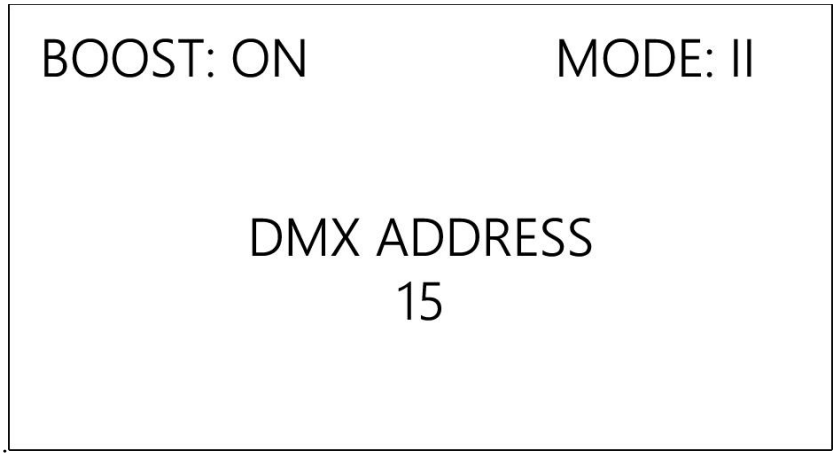
You can enable or disable boost. If you are using a small battery then we recommend you to disable it for extra operating time. If you use bigger batteries or power supplier you can enable it for extra lighting intensity! Check the lighting intensity and power consumption of the MZ LED lights when boost is enabled/disabled in page 7.

Step.7

By selecting "INFO" in the menu you can see the model of your LED light, firmware version and operating hours.

Step.8

You can Control your MZ LED light remotely with a DMX console. You can connect the first light to the console and the rest lights with loop through connections with XLR Cables. See Diagram No.5. Our DMX Dimmer is equipped with two XLR 3-pin male Connectors. DMX input and DMX loop output. See Diagram No.4. When the light is connected to the console the DMX function is enabled and the screen is as below:



In order to change the DMX address, go to menu and select DMX. By Turning the knob you can change the value from 1 to 512. Press the knob ones to store it.

MODE I/II
BOOST ON/OFF
▸DMX
INFO
EXIT

ADDRESS
15

Two channels are used for each MZ LED light. If the DMX Address of the light is 15, the console will control it by using channels 15 and 16. So the console can control the intensity and the color temperature by using separate faders. In "Mode I" one fader controls the Lighting Intensity and the second one the color temperature. In "Mode II" one fader controls the intensity of the warm and the second one the intensity of the cool lighting.

Important: When DC input source is higher than nominal the light will not power on. Whereas when input source is less than nominal the message "Low Voltage" will appear on the screen.

DIAGRAM 4 (Dimmer with OLED SCREEN & DMX Control)

DIAGRAM 5 (Studio DMX connection diagram.)

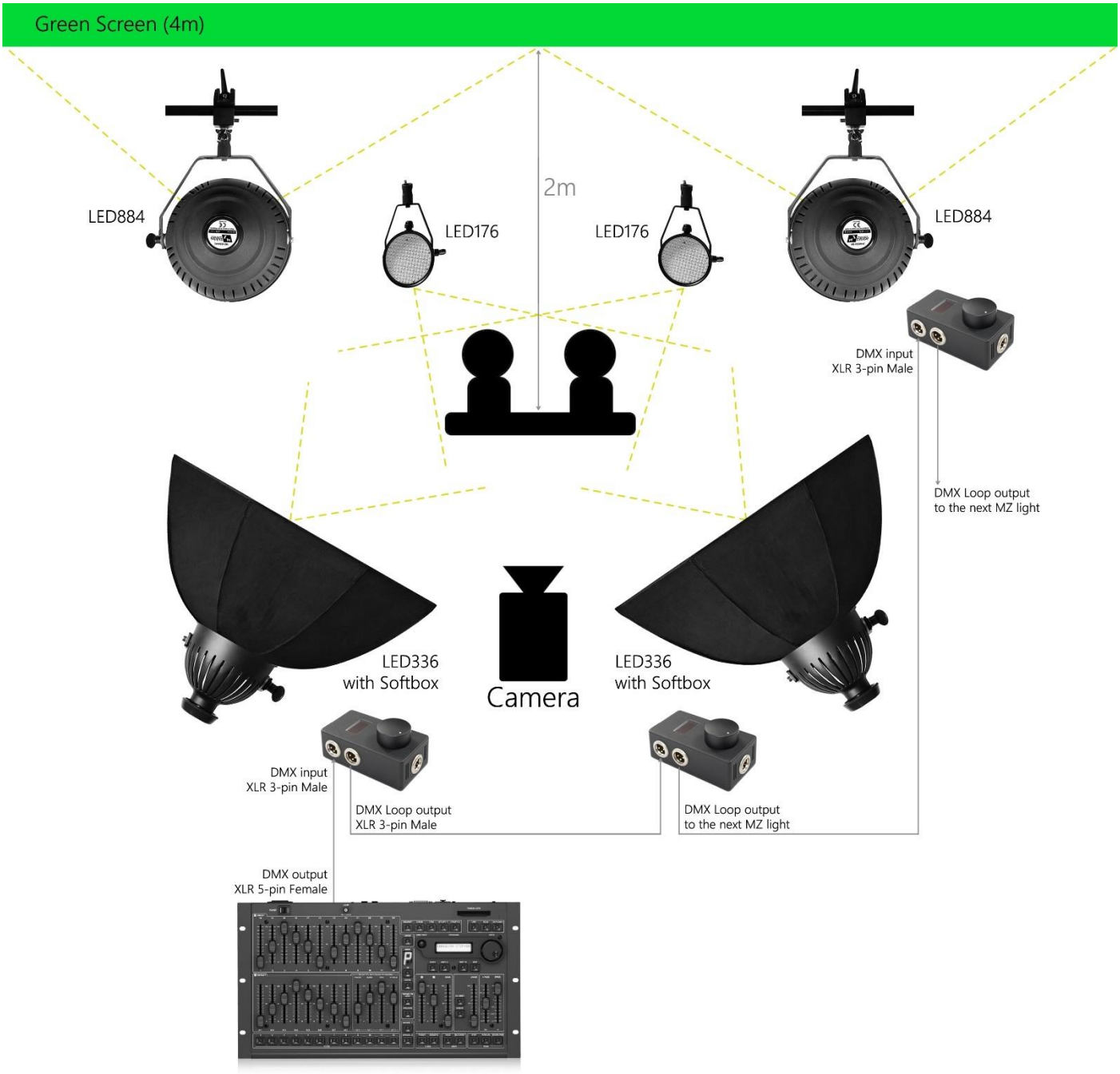
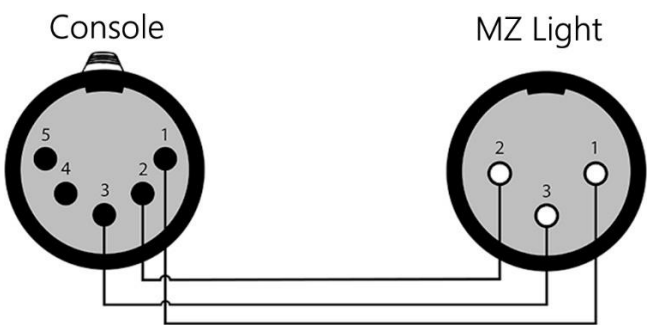


DIAGRAM 6 (5-pin XLR to 3-pin XLR DMX connection diagram.)



REMOTE CONTROL WITH CABLE EXTENSION

You can control your MZ LED lights remotely with cable extension without the need of DMX Control. It is recommended the installation to be done from an official MZ reseller. See diagram No.7.

Important info:
Dimmer should be turned on only after the cables are connected.

DIAGRAM 7 (Remote control with cable extension.)

DIMMER MOUNT

All MZ Dimmers are equipped with a ¼" thread for magic arms and clamps. With the MZ-Clamp-Kit you can adapt your MZ Dimmer on Light Tripods or bars. Check Diagram No.8

DIAGRAM 8 (MZ-Clamp-Kit to attach the Dimmer on a Light tripod)

LENSES

The 60° and 30° MZ lenses come with magnets for easy direct attachment on the LED board.
- The MZ Lenses for the LED176 & LED336 come with 3 strong magnets.
- The MZ Lenses for the LED884 come with 4 strong magnets.

You can attach the MZ Lenses by adapting the magnets of the lenses on the screws of the LED boards. See Diagram No.9
- In each plastic ledge there is a magnet.
- The plastic ledge that is next to the MZ logo should be always on the top of the LED body.
- Take it out by pulling the plastic ledge.

You can use the MZ Lens Holder for more permanent solutions and extra stability. See Diagram No.10.

DIAGRAM 9 (How to attach the Lens)

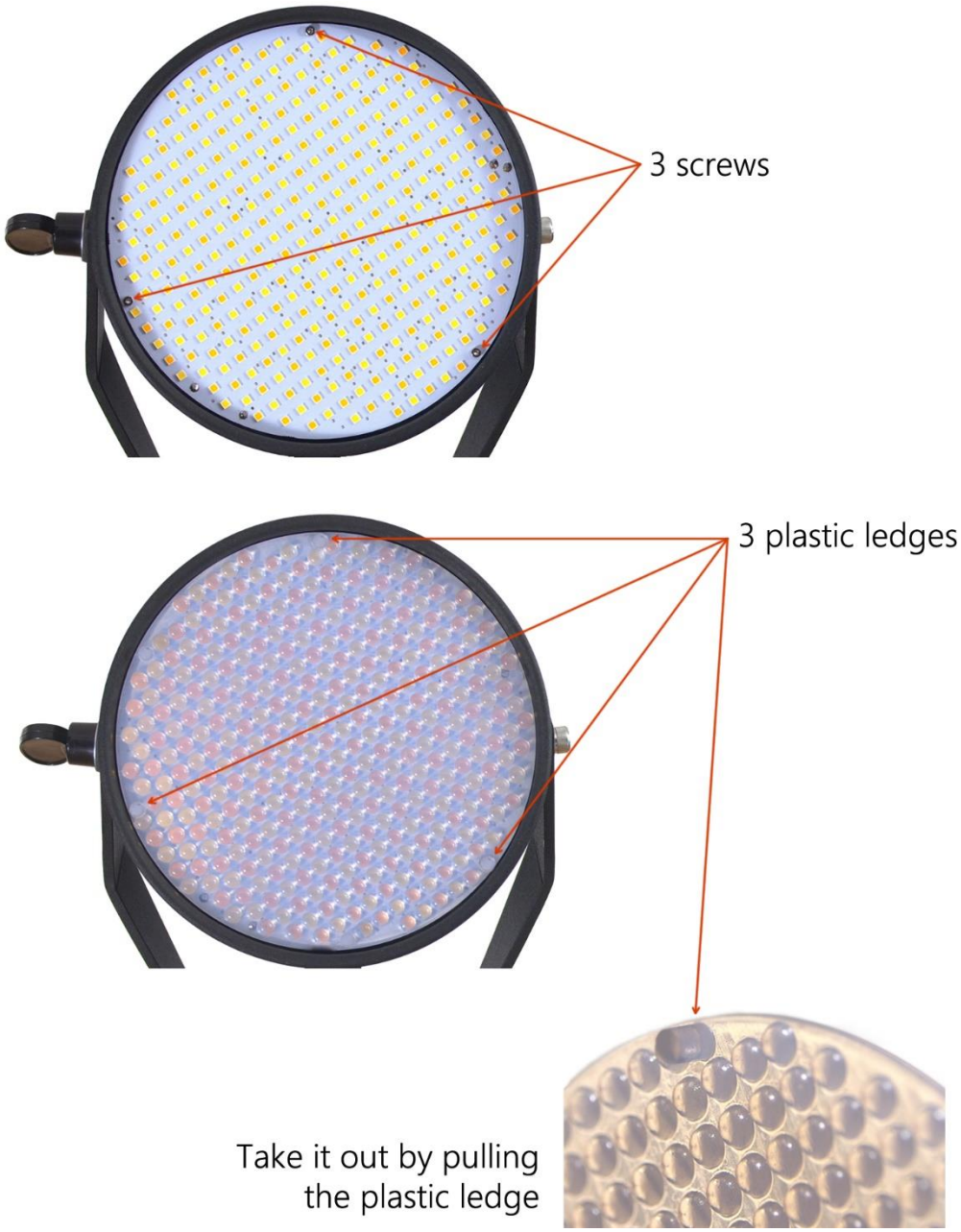


DIAGRAM 10 (Lens holder)

FILTERS

All MZ Filters come with magnets for easy direct attachment on the LED board.
- The MZ Filters for the LED176 & LED336 come with 3 strong magnets.
- The MZ Filters for the LED884 come with 4 strong magnets.

You can attach the MZ Filters by adapting the magnets of the filters on the screws of the LED boards. See diagram No.11.
- Protruding magnets of the filter should always be on the exterior side.
- The small cut of the filter should be on the top.
- To take it out turn the filter from the protruding magnets.

You can use the MZ Filter Holder for more permanent solutions and extra stability. See diagram No.12.

DIAGRAM 11 (How to attach the diffuser)

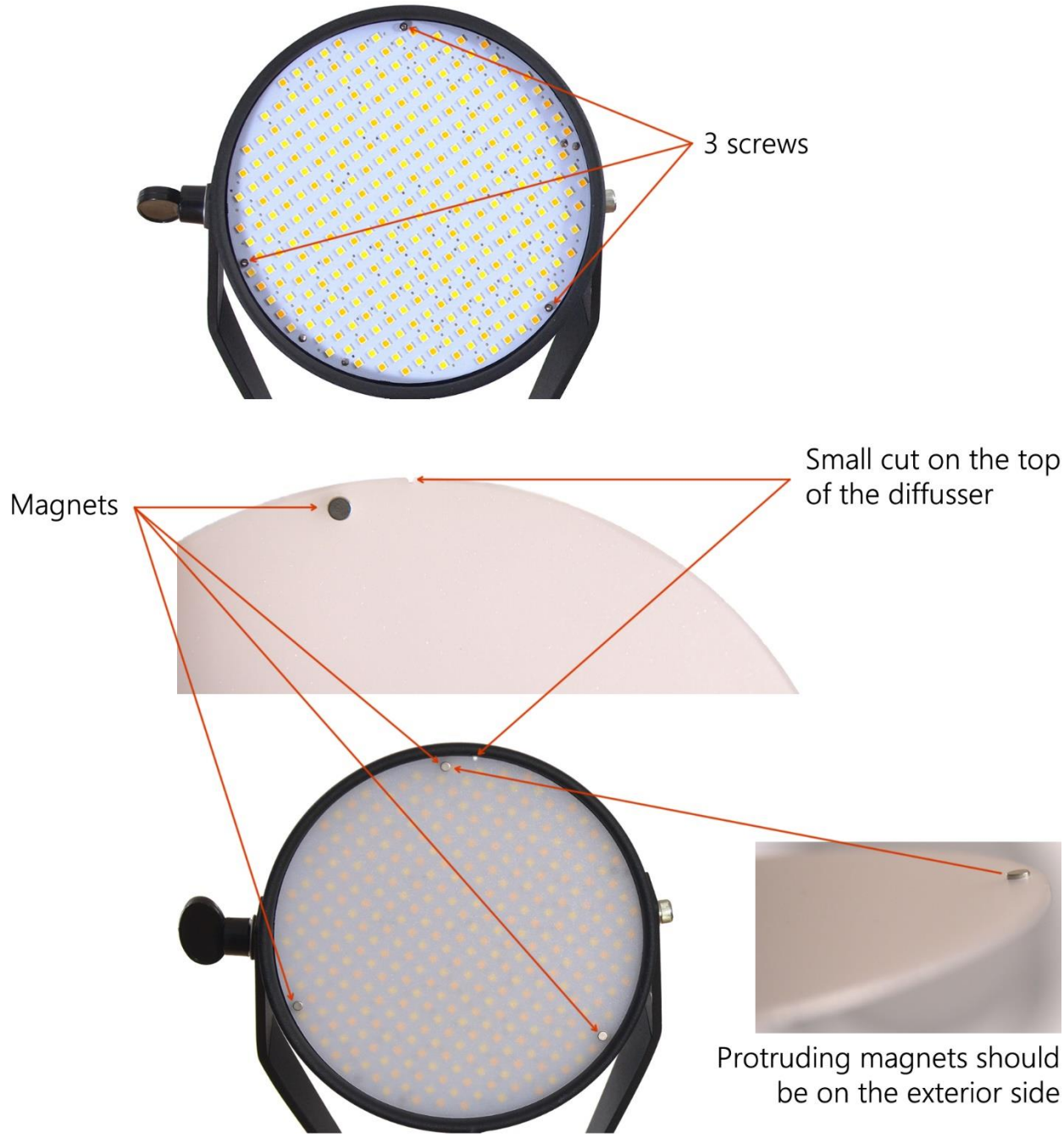


DIAGRAM 12 (Filter holder)

SOFTBOXES

We have available high quality softboxes with or without Grids in different shapes and dimensions. They are attached directly on the light body with a rotatable metal base with screws. They are high heat resistant and they have two recloseable holes to allow air flow for better cooling.

An MZ softbox includes a bag, a rotatable metal base, 4 metal bars, internal diffuser, main diffuser, Softbox and Grids (only for softboxes with Grids). See Diagram No.13

In order to assemble the softbox follow the following steps. See diagram No.14.

Step.1

Put the 4 bars in the metal base.

Step.2

Put the other sides of the bars in the small fabrics in the four corners of the softbox. You have to inflect the bars in order to do so.

Step.3

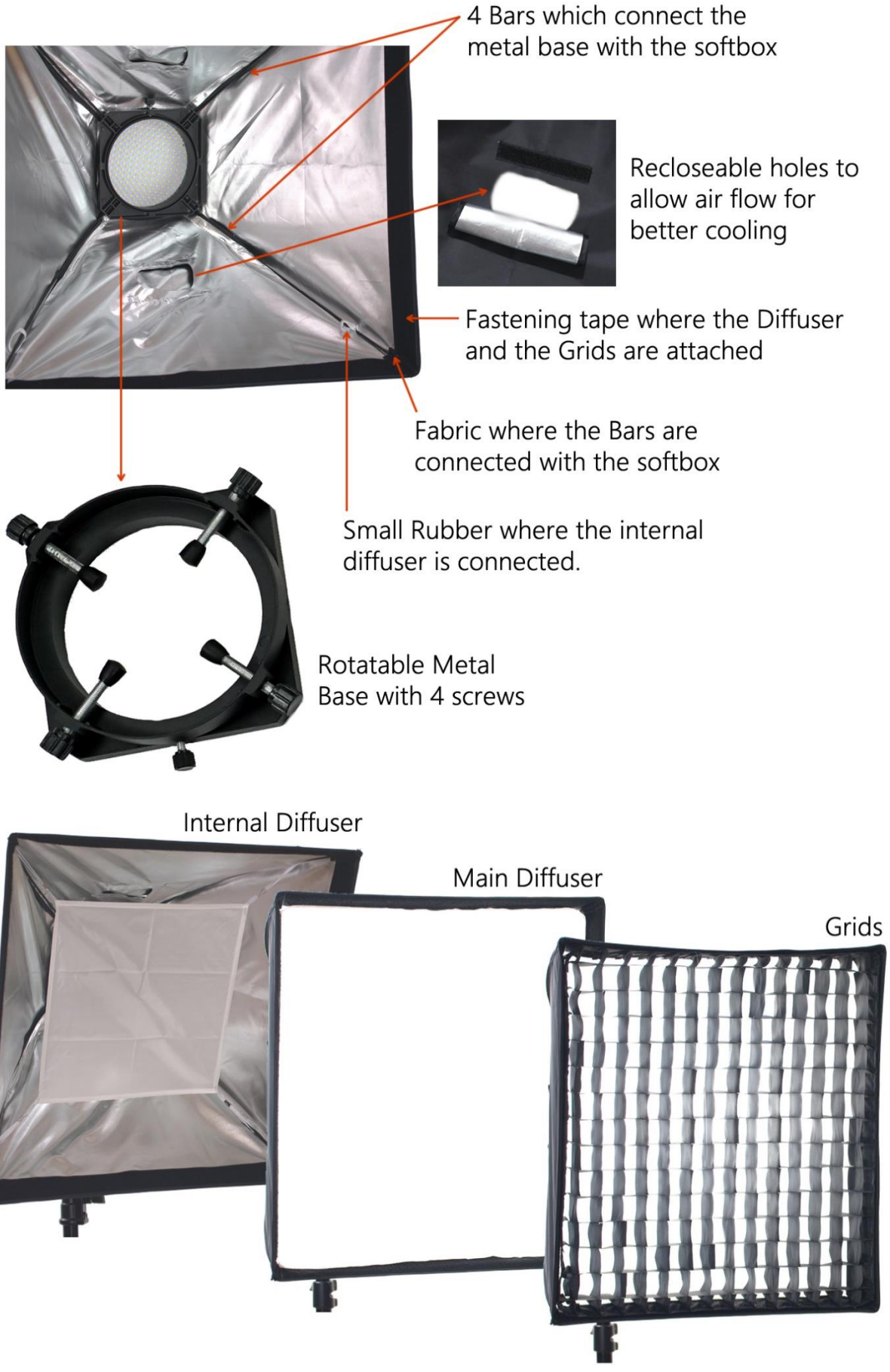
Connect the internal diffuser (for extra diffusion) to the four rubbers which are placed in the middle of the the softbox.

Step.4

Connect the main diffuser and the Grids (only for softboxes with Grids) to the fastening tape in the edge of the softbox.

DIAGRAM 13 (Softbox Contents)

DIAGRAM 14 (Softbox assembling)



METAL SNOOTS

Metal directional snoots with grids and color filters are available for all the MZ LED lights. These Metal snoots can be easily attached on the light bodies with 3 screws. In front of the snoot there is a removable directional adapter with Grids and filter holder. See diagram No.15.

DIAGRAM 15 (Metal Snoots)

BATTERY & POWER ADAPTERS

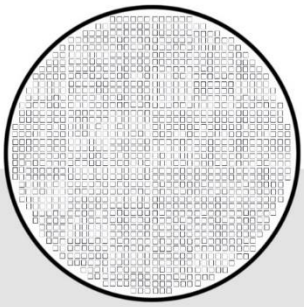
MZ adapters are equipped with XLR 4pin female connectors. Battery adapters are also equipped with clamps to fit on tripods. Whereas Dual Vlock/Glock adapters are equipped with a floor stand. Diagram No.16 & No.17

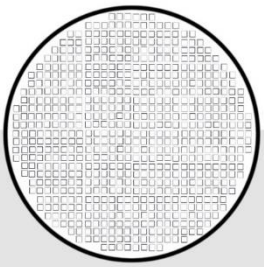
DIAGRAM 16 (Battery adapters)

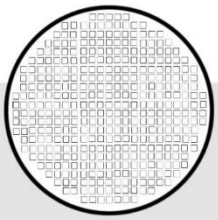
DIAGRAM 17 (Power adapters)

TECHNICAL SPECIFICATIONS

Comparison Table

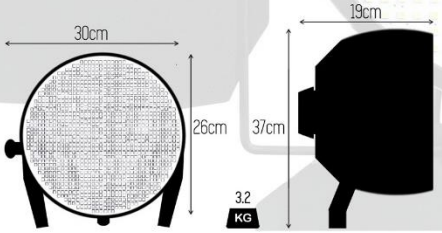






	LED884	LED336	LED176
No of LEDs	884 SMD LEDs	336 SMD LEDs	176 SMD LEDs
Temperature options	Bicolor/Cool/Warm	Bicolor/Cool/Warm	Bicolor/Cool/Warm
Light Beam	115°	115°	115°
Optional Lens	Yes, 60° & 30°	Yes, 60° & 30°	Yes, 60° & 30°
Standard CRI	97	97	97
Extended CRI	95	95	95
More Powerful than:	>LED2000 Panels	>LED1000 Panels	>LED500 Panels
Optional DMX	Yes	Yes	Yes
Boost/Mode Functions	Yes	Yes	Yes
Reverse polarity Protection	Yes	Yes	Yes
Mount	Yoke mount 16mm	Yoke mount 16mm	Yoke mount 16mm
Material	Aluminum	Aluminum	Aluminum
Input	XLR 4pin Male 27-35V DC	XLR 4pin Male 7-17V DC	XLR 4pin Male 7-17V DC
Battery options	Dual V-Lock or Dual G-Lock	NPF, BPU, BPA65, V-Lock, G-Lock	NPF, BPU, BPA65, V-Lock, G-Lock
Consumption (Boost OFF/ON)	130Watt/165Watt	66Watt/82Watt	35Watt/54Watt

MZ-LED884 *Powerful · Portable · Durable*



MZ-LED884-OLED
Dimmer with OLED Screen

MZ-LED884-DMX
Dimmer with DMX & OLED

MZ-LED884
Standard Dimmer

Temperature options
MZ-LED884B: Bicolor 3100-5600K
MZ-LED884C: Cool 5600K
MZ-LED884W: Warm 3100K

Single Kit options

MZ-LED884-Bulk includes: LED light and Dimmer.

MZ-LED884-Basic-Kit includes: LED light, Dimmer, Power supplier & Diffuser.

MZ-LED884-Essential-Kit includes: LED light, Dimmer, Softbox, Supplier, Clamp-Kit, DTAP cable & Pouch.

MZ-LED884-Power-Kit includes: LED light, Dimmer, Battery adapter, Supplier, Diffuser, Barndoors, Clamp-Kit & Pouch.

MZ-LED884-Deluxe-Kit includes: LED light, Dimmer, 30° & 60° Lenses, Supplier, Diffuser, Barndoors, Clamp-Kit, DTAP cable & Pouches.

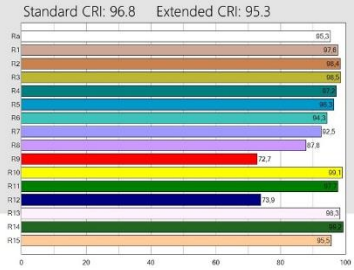
MZ-LED884-Full-Kit includes: LED light, Dimmer, Power Supplier, Diffuser, Barndoors, Clamp-Kit, Dtap Cable & Pouch.

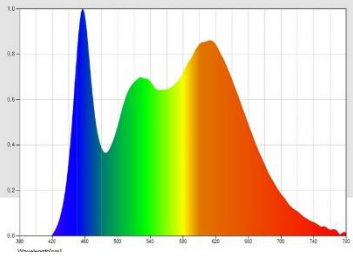
Luminus Intensity	Lux @0.6m	Lux @1m	Lux @2m	Lux @3m	Lux @6m	Lum (Flux)	Measurement temperature	More powerful than
MZ-LED884C	25.000	9000	2250	1.000	250	26.200	5600K	LED2000 Panels
MZ-LED884C with 60° lens	75.000	27.000	6750	3000	750	26.200	5600K	LED2500 Panels
MZ-LED884C with 30° lens	125.000	45.000	11.250	5000	1250	26.200	5600K	LED3000 Panels
MZ-LED884B	23.500	8500	2125	950	236	24.700	4350K	LED2000 Panels
MZ-LED884B with 60° lens	70.500	25.500	6375	2850	708	24.700	4350K	LED2500 Panels
MZ-LED884B with 30° lens	117.500	42.500	10.625	4750	1180	24.700	4350K	LED3000 Panels
MZ-LED884W	22.000	8000	2000	900	225	23.200	3100K	LED2000 Panels
MZ-LED884W with 60° lens	66.000	24.000	6000	2700	675	23.200	3100K	LED2500 Panels
MZ-LED884W with 30° lens	110.000	40.000	10.000	4500	1125	23.200	3100K	LED3000 Panels

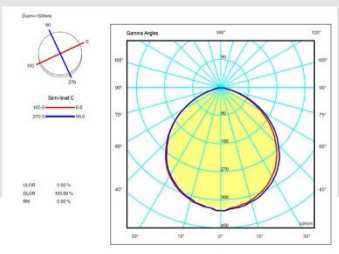
Power	Power Consumption	Operation hours with two MZ-V95 batteries	Operation hours with two MZ-V150 batteries	Operation hours with two MZ-V190 batteries
Boost OFF	130Watt	88min	139min	176min
Boost ON	165Watt	69min	109min	138min

Connector: 4pin XLR Male Connector 27-35V DC input

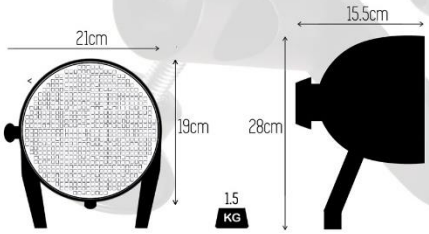
Batteries supported: Two V-Lock or Two G-Lock batteries with the MZ Dual battery adapters

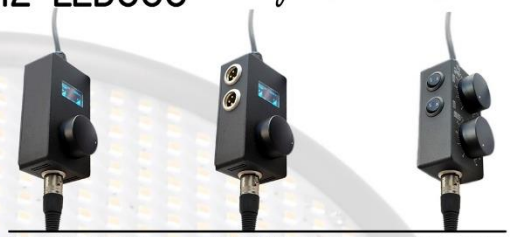






MZ-LED336 *Powerful · Portable · Durable*





MZ-LED336-OLED	MZ-LED336-DMX	MZ-LED336
Dimmer with OLED Screen	Dimmer with DMX & OLED	Standard Dimmer

Temperature options

MZ-LED336B: Bicolor 3100-5600K
MZ-LED336C: Cool 5600K
MZ-LED336W: Warm 3100K

Single Kit options

MZ-LED336-Bulk includes: LED light and Dimmer.

MZ-LED336-Basic-Kit includes: LED light, Dimmer, Power supplier & Diffuser.

MZ-LED336-Essential-Kit includes: LED light, Dimmer, Softbox, Supplier, Clamp-Kit, DTAP cable & Pouch.

MZ-LED336-Power-Kit includes: LED light, Dimmer, Battery adapter, Supplier, Diffuser, Barndoors, Clamp-Kit & Pouch.

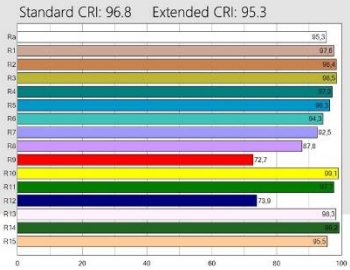
MZ-LED336-Deluxe-Kit includes: LED light, Dimmer, 30° & 60° Lenses, Supplier, Diffuser, Barndoors, Clamp-Kit, DTAP cable & Pouches.

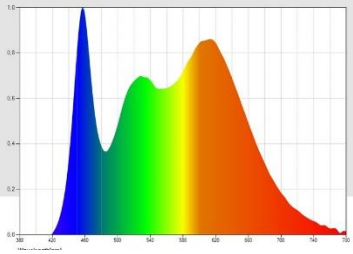
MZ-LED336-Full-Kit includes: LED light, Dimmer, Power Supplier, Diffuser, Barndoors, Clamp-Kit, Dtap Cable & Pouch.

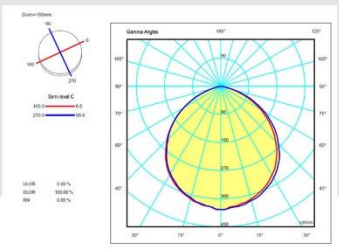
Luminus Intensity	Lux @0.6m	Lux @1m	Lux @2m	Lux @3m	Lux @6m	Lum (Flux)	Measurement temperature	More powerful than
MZ-LED336C	12.000	4300	1075	500	120	12.500	5600K	LED1000 Panels
MZ-LED336C with 60° lens	36.000	12.900	3225	1500	360	12.500	5600K	LED1200 Panels
MZ-LED336C with 30° lens	60.000	21.500	5375	2500	600	12.500	5600K	LED1500 Panels
MZ-LED336B	11.000	4000	1000	450	110	11.600	4350K	LED1000 Panels
MZ-LED336B with 60° lens	33.000	12000	3000	1350	330	11.600	4350K	LED1200 Panels
MZ-LED336B with 30° lens	55.000	20000	5000	2250	550	11.600	4350K	LED1500 Panels
MZ-LED336W	10.500	3800	950	400	98	11.000	3100K	LED1000 Panels
MZ-LED336W with 60° lens	31.500	11.400	2850	1200	294	11.000	3100K	LED1200 Panels
MZ-LED336W with 30° lens	52.500	19.000	4750	2000	490	11.000	3100K	LED1500 Panels

Power	Power Consumption	Operation hours with MZ-V95 battery	Operation hours with MZ-V150 battery	Operation hours with MZ-V190 battery	Operation hours with two MZ-NPF990 batteries
Boost OFF	66Watt	87min	137min	173min	180min
Boost ON	82Watt	70min	110min	140min	145min

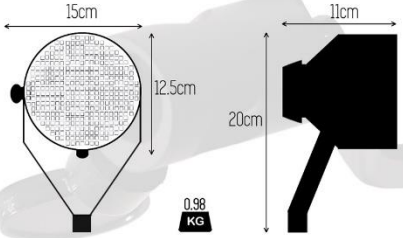
Connector: 4pin XLR Male Connector 7-17V DC input. **Batteries supported:** V-Lock, G-Lock & NPF batteries with the MZ battery adapters. BPU or BPA60 batteries with DTAP cable.







MZ-LED176 *Powerful · Portable · Durable*



MZ-LED176-OLED
Dimmer with
OLED Screen

MZ-LED176-DMX
Dimmer with
DMX & OLED

MZ-LED176
Standard
Dimmer

Temperature options

MZ-LED176B: Bicolor 3100-5600K
MZ-LED176C: Cool 5600K
MZ-LED176W: Warm 3100K

Single Kit options

MZ-LED176-Bulk includes: LED light and Dimmer.

MZ-LED176-Basic-Kit includes: LED light, Dimmer, Power supplier & Diffuser.

MZ-LED176-Essential-Kit includes: LED light, Dimmer, Softbox, Supplier, Clamp-Kit, DTAP cable & Pouch.

MZ-LED176-Power-Kit includes: LED light, Dimmer, Battery adapter, Supplier, Diffuser, Barndoors, Clamp-Kit & Pouch.

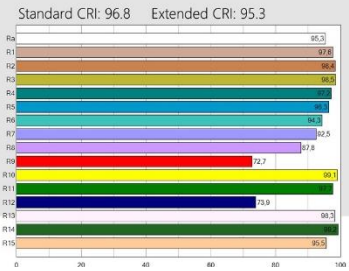
MZ-LED176-Deluxe-Kit includes: LED light, Dimmer, 30° & 60° Lenses, Supplier, Diffuser, Barndoors, Clamp-Kit, DTAP cable & Pouches.

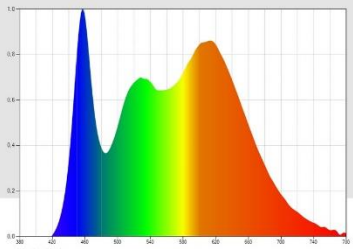
MZ-LED176-Full-Kit includes: LED light, Dimmer, Power Supplier, Diffuser, Barndoors, Clamp-Kit, Dtap Cable & Pouch.

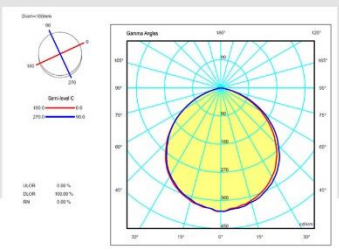
Luminus Intensity	Lux @0.6m	Lux @1m	Lux @2m	Lux @3m	Lux @6m	Lum (Flux)	Measurement temperature	More powerful than
MZ-LED176C	7500	2700	675	300	75	7.900	5600K	LED500 Panels
MZ-LED176C with 60° lens	22.500	8100	2025	900	225	7.900	5600K	LED600 Panels
MZ-LED176C with 30° lens	37.500	13.500	3375	1500	375	7.900	5600K	LED800 Panels
MZ-LED176B	7000	2500	625	280	69	7.300	4350K	LED500 Panels
MZ-LED176B with 60° lens	21.000	7500	1875	840	207	7.300	4350K	LED600 Panels
MZ-LED176B with 30° lens	35.000	12.500	3125	1400	345	7.300	4350K	LED800 Panels
MZ-LED176W	6500	2300	575	250	64	6.700	3100K	LED500 Panels
MZ-LED176W with 60° lens	19.500	6900	1725	750	192	6.700	3100K	LED600 Panels
MZ-LED176W with 30° lens	32.500	11.500	2875	1250	320	6.700	3100K	LED800 Panels

Power	Power Consumption	Operation hours with MZ-V95 battery	Operation hours with MZ-V150 battery	Operation hours with MZ-V190 battery	Operation hours with two MZ-NPF990 batteries
Boost OFF	35Watt	162min	258min	326min	340min
Boost ON	54Watt	106min	167min	212min	220min

Connector: 4pin XLR Male Connector 7-17V DC input. **Batteries supported:** V-Lock, G-Lock & NPF batteries with the MZ battery adapters. BPU or BPA60 batteries with DTAP cable.







WARNINGS AND PRECAUTIONS

1. Unplug the LED light from the wall outlet before cleaning. Do not use liquid. Use only cloth for cleaning.

2. If any kind of liquid drops in to the LED light you should unplug the light immediately.

3. The Temperature of the LED components might reach 115°C. You should not touch the LED components during operation. It may harm you.

4. You should not look directly to the LED lights. It may harm your eyes.

5. The operating temperature of the LED light is 0° up to 40° Celsius. If you use the light in very low or high temperatures it will make severe damage to the LED light. Warranty is void under improper usage.

6. You should always use 100-240V 50/60HZ appropriate European wall outlet for the MZ power supplier. If the wall outlet is not proper there will be voltage drop which results to LED light damage.

7. You should not try to open the LED light body, the dimmer or the power supplier. It may harm you. Warranty is void if you try to open the LED light body or any other component.

8. You should not pull the cable of the power supplier or of the dimmer. Cables might be destroyed which results to LED light damage. If cable is destroyed you should unplug the light immediately because it may harm you. Warranty is void when cables are destroyed.

9. You should not throw the power adapter from a distance to the ground. It will damage the electronic circuit of the power adapter and it might stop working immediately or after a small period of time. Warranty is void under improper usage.

10. When you store your MZ LED light or you put it to a bag you should always have the diffuser or the barndoors installed in order to protect the LED components. Broken LEDs are not covered by warranty.

11. You should not obstruct the air flow by covering the slits of the dimmer or the light body. Temperature will be increased and it will cause serious damage to your light.

For review videos and tutorials visit our website:

www.m-z.gr