

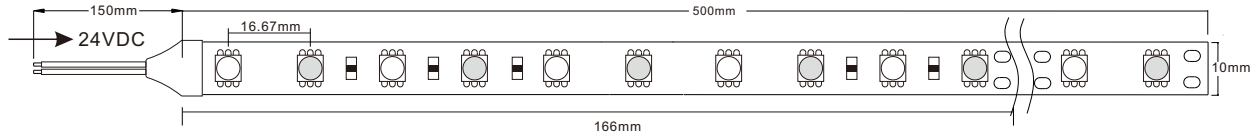
Item No.: 1524-RGB-W-IP68



Note:

1. This file will be regarded as product specification as well as technical references if just holding by one side.
2. Product standard will be executed according to this file, which already confirmed and signed by both sides.
3. All rights reserved.

Drawing:



- Size unit for mm.
- Mixer length tolerance is plus or minus 0.2% mm, the accuracy of the length of the article lamp, only the length of the connector or other quick connector to connect to the other.
- The width of the tolerance of + / - 0.2 mm.
- Thickness tolerance of + / - 0.1 mm.(except IP65)
- Each the size of the smallest unit for 166mm

Product features:

- Easy installing for many ways.
- Can be cutting into small units (with a “scissors” sign on the LED strip) or connecting at your will.
- Adjustable for all kinds of LED decorations
- Safety input 24V DC
- Certified by UL, TUV-CE, RoHS
- Suitable for different environments by several water-proof standards as IP65 silicon coated.

Product parameters:

Absolute Maximum Rating at TA=25℃

Parameter	Mark	Rated Value	Unit
Forward Voltage DC	VF	24VDC	V
Forward Current	IF	600	mA/M
Power	PD	14.4	W/M
Wave length	λ	Red 620NM-625NM Green 527NM-532NM Blue 470NM-475NM	NM
LED Color	/	RGB+WW2700-2900K,2900-3200K RGB+NW3800-4300K RGB+PW6000-6500K	K
Luminous Flux	Φ	610	Lm(1M)
PCB Width	W	10	mm
Copper Thickness	T	3	OZ
Min. Element Size	L	166	mm
Min.Buckling Radius	R	≥50	mm
Angle	2θ1/2	120	deg
Static Electricity	ESD	800	V
Working Temp.	Topr	-20~+40	℃
Working Humidity	RH	90	%
Storage Temp.	Tstg	-40~+80	℃
Junction Temperature	Tj	115	℃
IP Grade	IP	IP20 non waterproof IP65 silicon coated IP67 silicon tube IP68 silicon tube&inject silicon glue	/

Note:

1. $2\theta 1/2$ is Half-value angle.
2. Luminous Flux testing acceptable tolerance: $\pm 10\%$.
3. CRI testing acceptable tolerance: -1 .
4. Voltage testing acceptable deviation: $\pm 1V$.
5. The CCT of the LED strip will changed after the strip glued.
6. Luminous Flux is the brightness of 1 meter.

M_{series} LED controller M4/M8



M series LED controller is compatible with 8 kinds remotes of different function(patent technology).which means using one receiver could experience single color/CT dimming,RGB/RGBW adjustment to meet customers' different lighting requirements.With the RF remote,speed/brightness adjustment.customise color and lighting changing modes selection could all be achieved.

Parameter:

Remote(RGBW):

- Model: M4/M8
- Working Voltage:3VDC(battery Cr2032)
- Working Frequency:433.92MHz
- Remote Distance:40~50m
- Working Temp.: -20°C~55°C
- Weight(N.W.): 42g

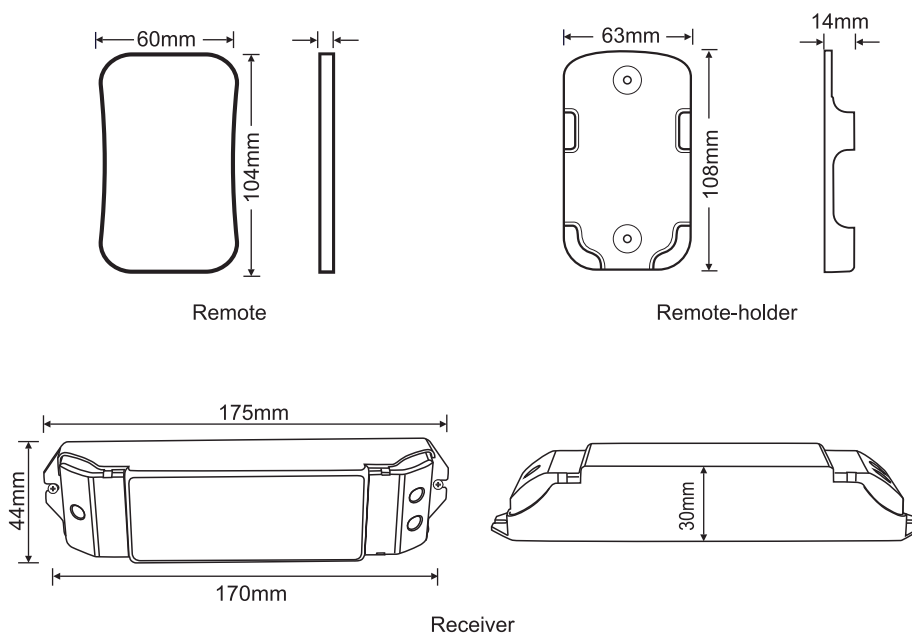
CV Receiver(G.W.):

- Model: M4-5A
- Input Voltage: 5VDC~24VDC
- Max Current Load: 5Ax4CH max 20A
- Max Output Power: 100W/240W/480W(5V/12V/24V)
- Gray Scale Level: Max 4096x4096x4096x4096
- Working Temp.: -30°C~55°C
- Weight(N.W.): 125g

CC Receiver(RGBW):

- Model: M4-CC
- Input Voltage: 12VDC~48VDC
- Output Voltage:3V~46V
- Load Current:CC350mA/700mA/1050mA x4CH
- Output Power:1.05W~48.3Wx4CH Max 193.2W
- Gray Scale Level: Max 4096x4096x4096x4096
- Working Temp.: -30°C~55°C
- Weight(N.W.): 125g

Product Size:



The Learning ID Merthod of Remote Control:

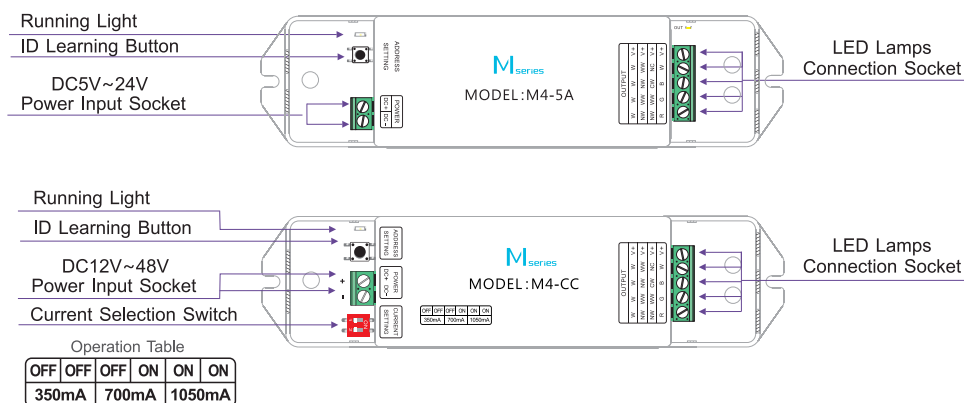
Remote control has been matched to the receiver before leave factory,if deleted accidentally,you can learn ID as follow.

Learning ID:Short press ID learning button on the receiver M3-3A,the running light is on,then press any key on the remote control,the running light flashes several times, activated.

Cancel ID:long press ID learning button on the receiver for 5 seconds.

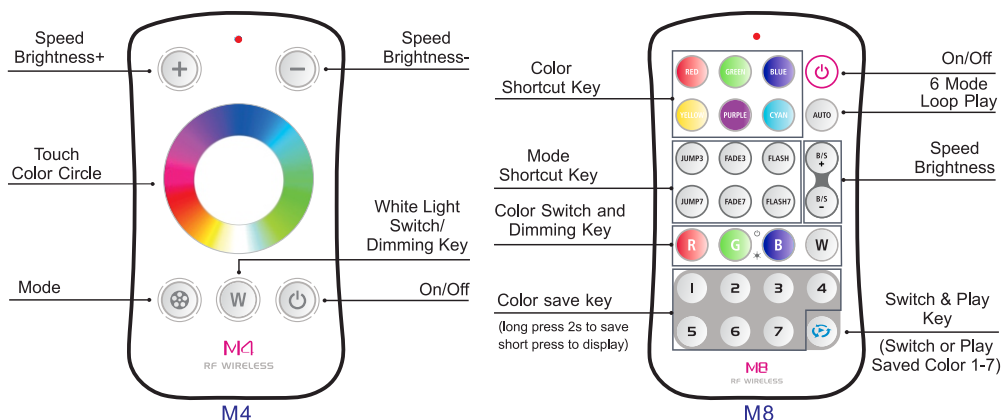
Attn:one receiver can be matched with max 10 same or different kinds remote.

Operating Instruction for Receiver:



Operating Instruction for Remote Control:

Sleep Mode: the M4 remote goes on a standby mode to save power when not in use for 30s. press any key to continue.



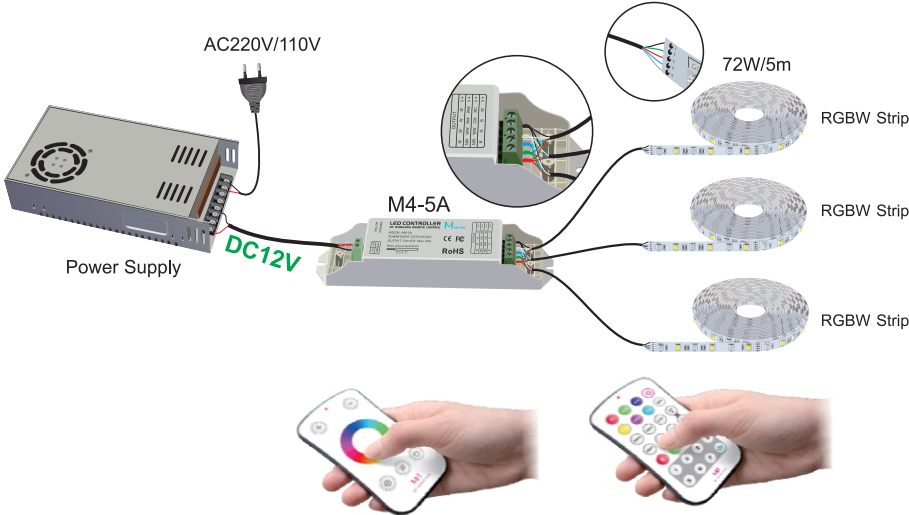
M4 Changing Mode Table

No.	Mode	Instrucion	No.	Mode	Instrucion
1	Static Red	Brightness Adjustable	7	Static White	Brightness Adjustable
2	Static Green	Brightness Adjustable	8	RGB Skipping	Speed/Brightness Adjustable
3	Static Blue	Brightness Adjustable	9	7 Colors Skipping	Speed/Brightness Adjustable
4	Static Yellow	Brightness Adjustable	10	RGB Color Smooth	Speed/Brightness Adjustable
5	Static Purple	Brightness Adjustable	11	Full-color Smooth	Speed/Brightness Adjustable
6	Static Cyan	Brightness Adjustable	12	Static Black	White light can be turn/off and adjusted

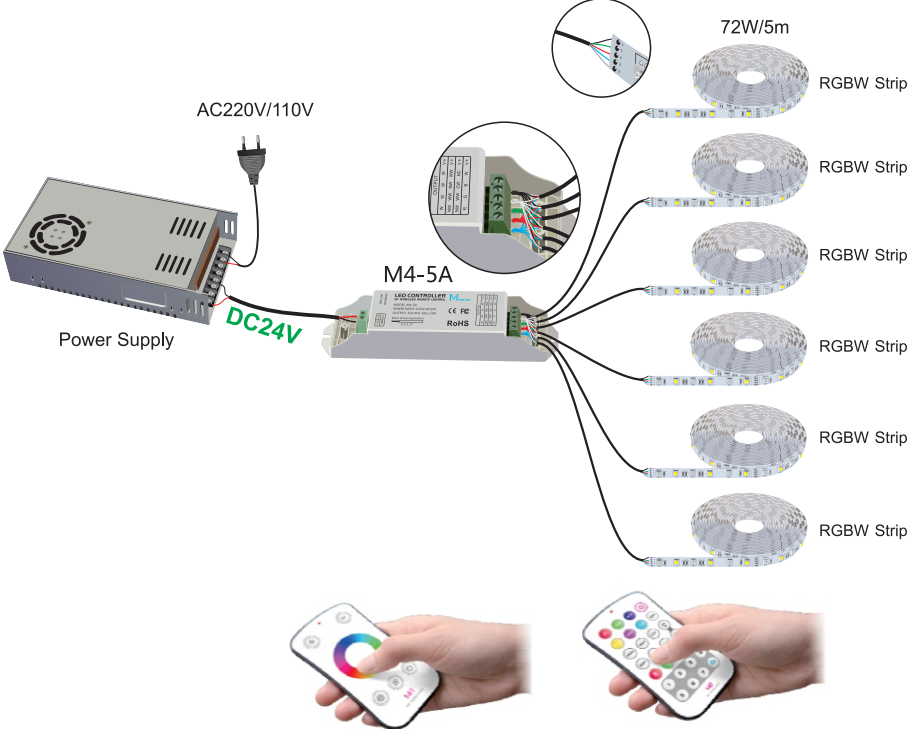
Wiring Diagram:

A. CV Receiver

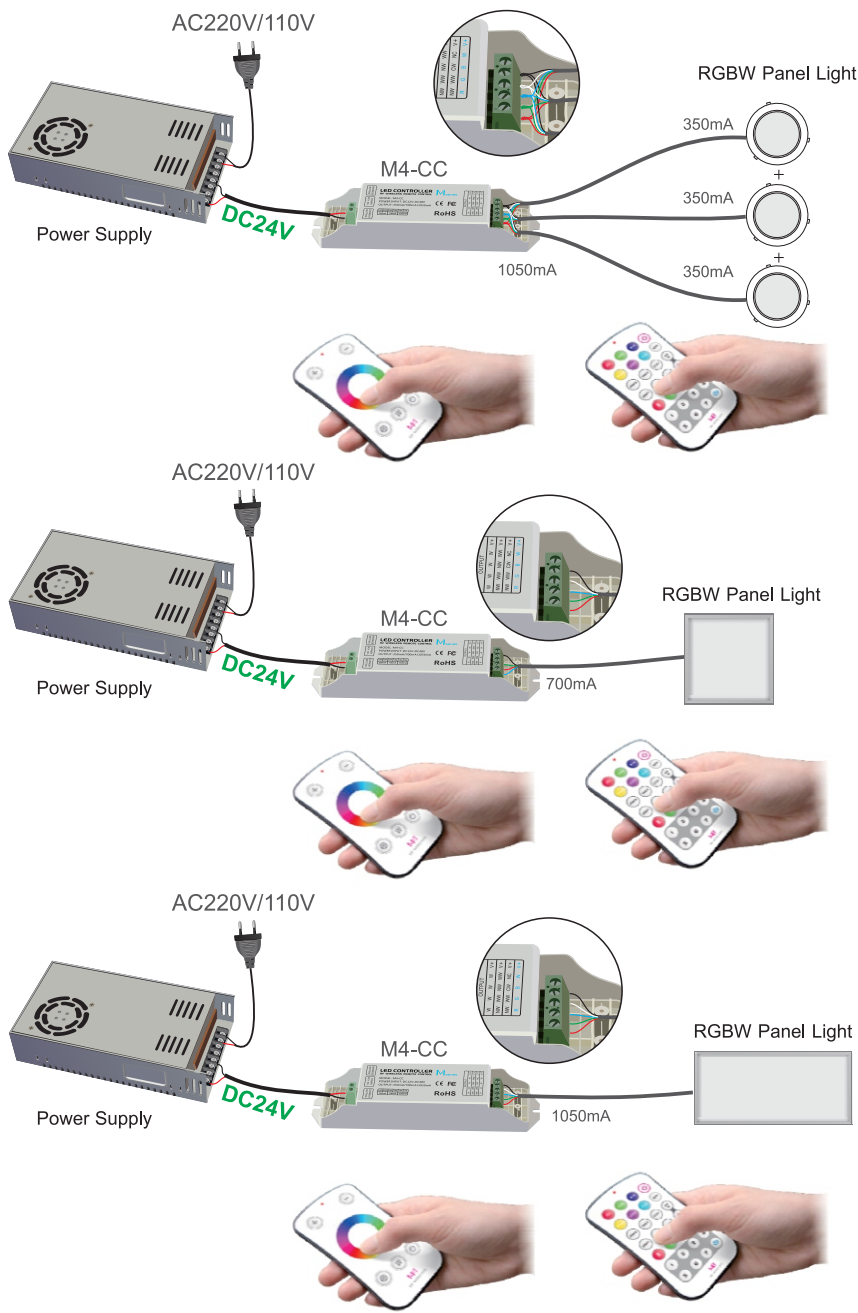
E.g. 1: Connected 12V lamp, loads 1~240W (5A×4CH×12V).



E.g. 2: Connected 24V lamp, loads 1~480W (5A×4CH×24V).



B. CC Receiver



Attention:

- 1.The product shall be installed and serviced by a qualified person.
- 2.This product is non-waterproof.Please avoid the sun and rain.When installed outdoors please ensure it is mounted in a water proof enclosure.
- 3.Good heat dissipation will prolong the working life of the controller.Please ensure good ventilation.
- 4.Please check if the output voltage of any LED power supplies used comply with the working voltage of the product.
5. Please ensure that adequate sized cable is used from the controller to the LED lights to carry the current.
Please also ensure that the cable is secured tightly in the connector.
- 6.Ensure all wire connections and polarities are correct before applying power to avoid any damages to the LED lights.
- 7.If a fault occurs please return the product to your supplier.Do not attempt to fix this product by yourself.

Warranty Agreement:

- 1.We provide lifelong technical assistance with this product:
 - A 5-year warranty is given from the date of purchase.The warranty is for free repair of replacement and covers manufacturing faults only.
 - For faults beyond the 5-year warranty we reserve the right to charge for time and parts.
 - 2.Warranty exclusions below:
 - Any man-made damages caused from improper operation,or connecting to excess voltage and overloading.
 - The product appears to have excessive physical damage.
 - Damage due to natural disasters and force majeure.
 - Warranty label,fragile label and unique barcode label have been damaged.
 - The product has been replaced by a brand new product.
 - 3.Repair or replacement as provided under this warranty is the exclusive remedy to the customer.LTECH shall not be liable for any incidental or consequential damages for breach of any stipulation in this warranty.
 - 4.Any amendment or adjustment to this warranty must be approved in writing by LTECH only.
- ★ This manual only applies to this model.LTECH reserves the right to make change without prior notice.

Packaging:



Carton Box Option 1: 70*27*27cm

Quantity: IP20 50rolls(250M)
IP65 40rolls(200M)

Carton Box Option 2: 39.5*39.5*24cm

Quantity: IP20 60rolls(300M)
IP65 60rolls(300M)

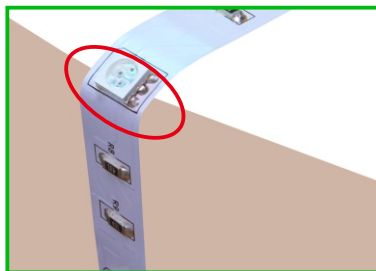
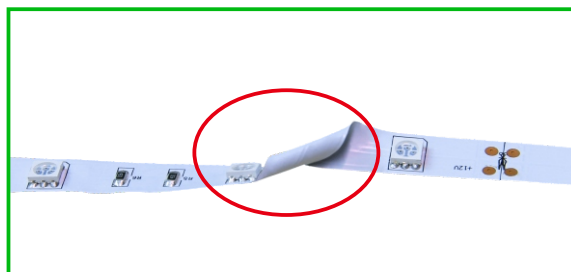
Note:

1. One Aluminum Foil Bag for one roll of LED strip, 5M/roll.
2. All the packaging materials are RoHS standard.
3. Heavy stuff are not allow to be loaded above the packaging box.

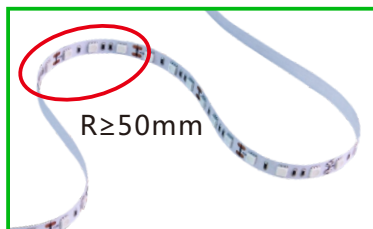


Cautions:

- When install the led strip , please note the installation technique. The led strip can be bent, but not distorted, as shown below:



Distortion(Wrong)



Bend(Right)

- LED strips are low voltage products, you must use the power supply(transformer). Please don't connect the led strip directly to the AC110 or AC220V, otherwise it will burn out the LED strips.
- Clean up the installation surface, it will ensure the reliability of the adhesive.
- The electrical connection process must be operated by a professional person.