



PLEASE READ BEFORE USE

integral LED

IP00



Integral LED is a division of Integral Memory plc
London NW10 0UF

Digital RGB Pixel Colour Changing Remote Control and Receiver Integral LED order code: ILRC023



**DO NOT CONNECT THE RECEIVER TO A MAINS SUPPLY.
THE RECEIVER MUST ONLY BE CONNECTED TO A SUITABLE 5V-24V LED DRIVER.**

IMPORTANT NOTICE

- This product should be installed according to the instructions in this guide and by a qualified electrical installer.
- All electrical work must be completed in accordance with the latest IET wiring regulations (formally IEE) for the UK or in accordance with all applicable regulations and laws in the country in which it is being installed.
- Switch OFF power at the mains before installing the product.
- Always disconnect or switch off the power supply before making any adjustment to the wiring.
- Observe the operating temperature of the product: -30°C to +55°C
- Limited 5 Year Warranty. This LED Remote control and Receiver is for indoor use only. Improper installation, abuse or miss-powering of the remote control and receiver or failure to use the remote control and receiver for its intended use will void the warranty. Proof of purchase is required for all returns. Your statutory rights remain unaffected.

Please see www.integral-LED.com/warranty.

Questions? Please contact your supplier or see integral-LED.com

1. Introduction

INTRODUCTION

The LTECH RGB Pixel Remote Control and Receiver is designed to work with the Integral LED Digital Pixel RGB Strip (ILSTRGBA073E and ILSTRGBB074E). You will be able to change the strip in different modes, such as flash effects, single or multicolour chase effect, light curtains and gradual fades.

2. Parameter

Receiver:

- Compatible Remote: M16S
- Power Input: DC5V~DC24V
- Max Current Load: Max 10A
- Output: SPI
- Working Temp.: -30°C~55°C
- Dimensions: L135xW30xH20(mm)
- Weight (N.W.): 47g
- Compatible IC: See section 5

Total Weight (G.W.): 135g

Remote:

- Working Voltage: 3V (battery CR2032)
- Working Frequency: 433.92MHz
- Remote Distance: 30m
- Working Temp.: -30°C~55°C
- Remote Dimensions: L104xW58xH9(mm)
- Remote Holder Dimensions: L108xW63xH14(mm)
- Weight(N.W.): 42g

3. Operating Instruction for Receiver

The Remote control has been matched to the receiver before leaving the factory, if deleted accidentally you can restore the ID as follows.

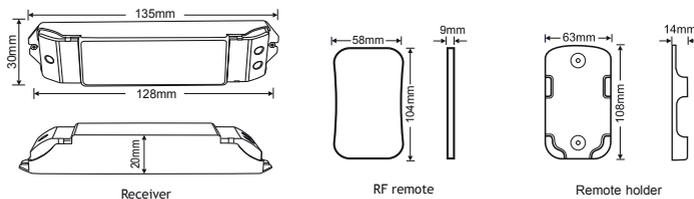
Learning ID: Short press the ID learning button on the receiver until the indicator light is on, then press any key on the remote control, the indicator light flashes several times. The ID is now activated.

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

One receiver can be matched to up to 10 remote controls.

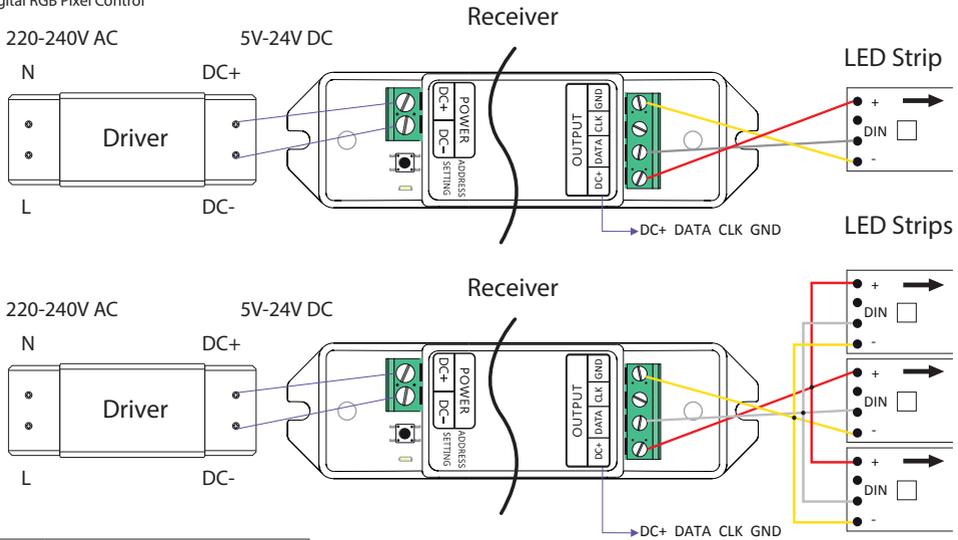


4. Product size



5. Wiring Diagram

Digital RGB Pixel Control

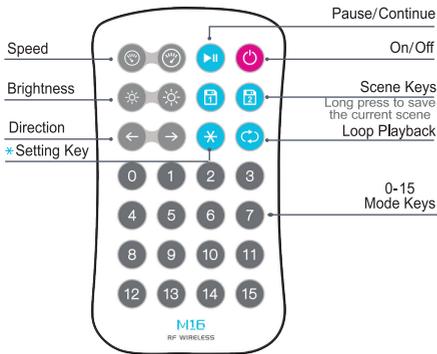


Receiver to strip	
Mark on Receiver	Mark / Cable colour on Strip
DC+	+ / RED Cable
DATA	3rd PIN Connection / WHITE Cable
CLK	2nd PIN Connection / DO NOT WIRE
GND	- / YELLOW Cable

Please make sure you connect the strip to the receiver correctly, as indicated in the table.

**The connection instruction is for the Integral LED Digital Pixel RGB strip ILSTRGBA073E and ILSTRGBB074E only. If using different digital strips, the connection may vary.

6. Operating Instruction for Remote Control



Setting Instruction of remote

- Loop playback (factory settings): to run a loop of modes 0-15 continuously press . The controller will now run modes 0-15 continuously.
- Selected loop playback: to run a loop of specific modes short press , then select the preferred modes by pressing the number modes of your choice. Finish by pressing the key to finish. The controller will now run the selected modes as a continuous cycle.
- Method for selecting IC / RGB Sequence: ILRC013 is compatible with IC pixel LEDs; TM1804/ TM1809/TM1812/UCS1903/UCS1909/UCS1912/UCS2903/UCS2909/UCS2912/WS2811/ WS2812 as factory setting.
- The IC of Integral strip ILSTRGBA073E and ILSTRGBB074E is WS2811. Press *2811* to confirm the setting.
- The pixel number of Integral Strip ILSTRGBA073E and ILSTRGBB074E is 20 pixels per metre. It's 100 pixels in total for 5 metres. Press *100 to confirm the setting.
- To set up working IC, RGB colour order and pixel number, please find below tables.

IC Type	Setting e.g.	Pixel	Setting e.g.	RGB Order	Setting
TM1809	*1809*	8	**008	RGB	*123*
LPD6803	*6803*	16	**016	RBG	*132*
WS2801	*2801*	100	**100	GRB	*213*
TLS3001	*3001*	160	**160	GBR	*231*
P9813	*9813*	360	**360	BRG	*312*
*****	*0000*	Range: 8-1020 pixels		BGR	*321*

Scene Instructions for Keys 0-15

0	7 colours jump	4	7 colours hours race	8	6 colours tail	12	6 colours float
1	7 colours flash	5	7 colours circle horse race	9	6 colours circle tail	13	6 colours double trail
2	7 colours fade	6	7 colours jump horse race	10	6 colours jump tail	14	6 colours + white circle float
3	7 colour smooth	7	7 colours chase	11	White meteor	15	Bi-colour float

Note: The strip light flashes 2 seconds to confirm the setting completed. When select the IC number, press the key with consistent speed, not too fast.