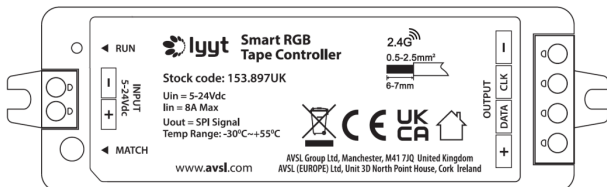


Smart RGB Tape Controller

Item ref: 153.897UK User Manual



Control Lytt Smart RGB LED Tape with a 27-key handheld remote and controller unit. Capable of operating lengths of Lytt Smart LED Tape, this unit has 32 preprogrammed lighting effects featuring multiple patterns and sequences to suit your installation.

This unit is equipped with screw terminals for easy connection to Lytt Smart RGB LED Tape and a suitable DC power supply.

Main Unit Specification:

Working temperature	0-40°C	Supply voltage	DC5V-24V
Standby power consumption	4W	RF frequency	RF (2.4GHz)
External dimension	97 x 33 x 18mm	Weight	40g
Output	SPI (DATA/CLK), +VDC, GND	Max current	8A

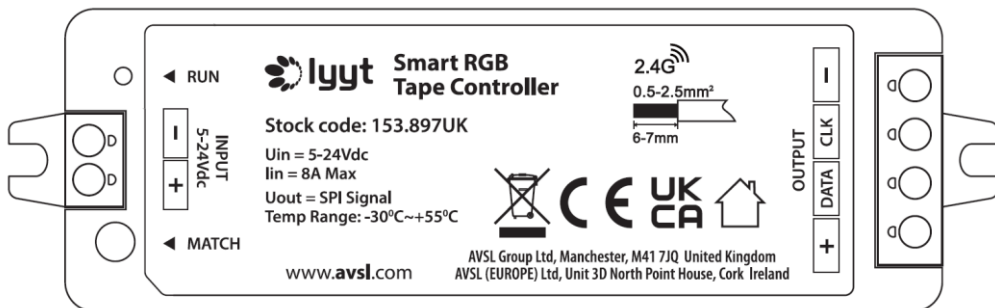
RF Remote-Control Specification:

Working temperature	0-40°C	Supply Voltage	3VDC(CR2032)
External Dimensions	107 x 58.5 x 9mm	Weight	40g

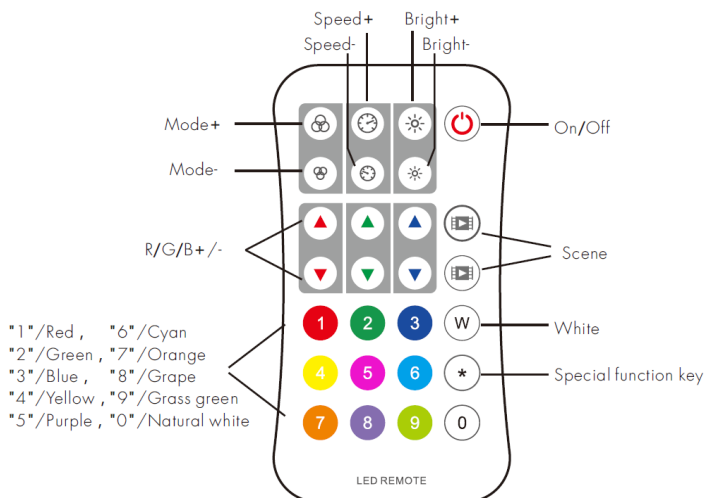


Caution: Please read this manual carefully before operating
Damage caused by misuse is not covered by the warranty

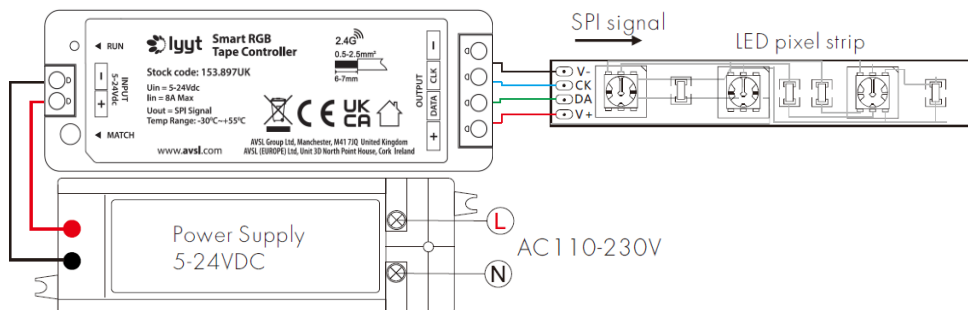
Main Unit Layout:



RF Remote Control Layout:



Setting up:



Connect the +V (Red), GND (Black or White) and DATA (Green) from the Lytt Smart RGB Tape to the corresponding terminals on the controller. Tapes from other manufacturers may have a CLK connector (Blue), so if this is present connect it as above.

Connect a 5-24VDC PSU to the Screw terminals making sure to have the correct polarity: Positive (Red) and Ground (Black) and ensure that the PSU has enough current capacity to operate the connected tape.

Remember that Lytt Smart RGB LED Tape is directional. The arrows on the tape show the direction of the controller signal. The tape must be installed so that the arrows are pointing downstream i.e. away from the controller.

Remove the plastic tab from the handheld RF remote control unit to activate the battery (Button cell CR2032). Power up the main control unit from the 5-24VDC power supply and if the LED on the controller is not lit, press the power 'ON' key on the remote control.

Remote Control Operation

	Mode Buttons. Use these buttons to switch between 32 preset lighting modes. See table below for lighting modes. Hold down the top Mode button to reset to pre-set lighting mode number 1.
	Pattern Speed Buttons. Use these to increase or decrease the speed of the current lighting mode.
	Brightness Buttons. Use these to increase or decrease the brightness of the current lighting mode.
	RGB Buttons. Use these to adjust Red, Green or Blue Brightness
	Scene Buttons. You can save your favourite colours or lighting modes with these two buttons. Choose your preferred lighting mode or colour and press and hold one of these buttons for 2 seconds to store. Quick press again to recall this mode.
	Quick Colour Selection Buttons. Use these to select a colour: 1 = Red 2 = Green 3 = Blue 4 = Yellow 5 = Purple 6 = Cyan 7 = Orange 8 = Grape 9 = Grass Green 0/W = White
	Special Function Key. Please see Special Functions Below

Lighting Modes

1	Red horse race white ground	9	7 colour multi horse race close + open	17	Purple Meteor	25	Red Yellow Float
2	Green horse race white ground	10	7 colour scan close + open	18	White Meteor	26	Green Cyan float
3	Blue horse race white ground	11	7 colour multi-scan close + open	19	7 colour meteor	27	Blue Purple float
4	Yellow horse race blue ground	12	Blue White Chase	20	Red float	28	Blue White float
5	Cyan horse race blue ground	13	Green Cyan Chase	21	Green float	29	6 colour float
6	Purple horse race blue ground	14	RGB Chase	22	Blue float	30	6 colour smooth
7	7 colour multi horse race	15	7 colour chase	23	Purple float	31	7 colour jump
8	7 colour horse race close + open	16	Blue Meteor	24	RGBW float	32	7 colour strobe

Special Functions

Setting the Tape Length:

If you cut the Lyyt Smart RGB Tape to fit an installation, it will be necessary to program the controller with the new length in order that the Lighting Modes display properly.

5m of tape has 80 sections or 16 sections per metre. These are the clearly marked points at which you can cut the tape to size. You can have any length from a minimum of 10 sections (approx. 60cm) to the full 80 (5m).

For example, if you cut the tape in half, this will leave you with 40 sections (approx. 2.5m). You will have to press the following on the remote control to set the length: ***040***

If you want to cut the tape to 20 sections (approx. 1.2m), then press ***020***

Please note the *minimum* length for the tape and controller to work correctly is 10 sections or approx. 60cm.

Using the Lyyt Smart RGB Tape Controller with other brands of Smart Tape

The Lyyt Smart RGB Tape Controller is compatible with multiple types of Smart LED Tape. You can set the controller to communicate with other brands of LED Tape by identifying their Chip Type – please see your relevant manufacturer documentation to obtain this information.

Simply press the following buttons into the remote control:

Code	Smart LED Chip Type
11	TM1803
12	Lyyt Smart RGB LED Tape , TM1809, TM1804, TM1812, UCS1903, UCS1909, UCS1912, UCS2903, UCS2909, UCS2912, WS2811, WS2812
13	TM1829
14	TLS3001, TLS3002
15	GW6205
16	MBI6120
17	TM1814B(RGBW)
18	SK6812(RGBW)
19	UCS8904B(RGBW)
21	LPD6803, LPD1101, D705, UCS6909, UCS6912
22	LPD8803, LPD8806
23	WS2801, WS2803
24	P9813
25	SK9822
31	TM1914A

Setting the RGB Order

The Lyyt Smart RGB LED Tape controller should arrive in a default configuration to work with Lyyt Smart RGB Tape. However, if you are getting the incorrect colours when pressing the RGB or preset colour buttons on the remote, simply press ***1*** which should reset the RGB order to the default settings.

If you are using another brand of RGB or RGBW tape, you can adjust the colour order by pressing the following combination on your remote control.

1	RGB (Default)
2	RBG
3	GRB
4	GBR
5	BRG
6	BGR
7	RGBW (RGBW Tape only)
9	WRGB (RGBW Tape only)

Pairing additional remote controls to the same controller

If you want to add an additional remote control to your installation, press the 'match' button on the controller and press the power button of the remote control within 5 seconds to pair that remote to your controller. To delete all matched remotes from the controller, press and hold the 'match' button for 5 seconds.

The indicator light will flash 6 times when either of these operations are complete.

Warning:

- For reasons of electrical safety, this device must never be immersed in water, exposed to damp conditions or excessive force.
- Do not use this device if you find that it is damaged in any way.
- Do not attempt to repair this device or take apart under any circumstances, as this will invalidate your warranty.



Disposal: The "Crossed Wheeled Bin" symbol on the product means that the product is classed as Electrical or Electronic equipment and should not be disposed with other household or commercial waste at the end of its useful life. The goods must be disposed of according to your local council guidelines.

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