



RGB LED Strip Tape & 24 Key Controller User Manual



ILLT-RGB-12V & ILLT-RGB-24V



ILLT-RGBCNTRLK1

Overview – RGB Strip Tape

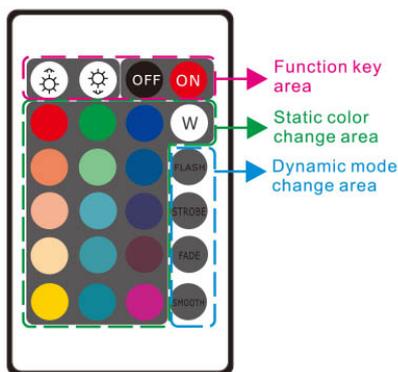
Engineered with high performance flexible circuit boards for heat management and superior color/light distribution, our professional quality full color change (RGB) LED Strip Tape provides a high level of design flexibility. Fully sealed and UV protected, this product will provide years of top performance. With the RGB Controller kit, the system offers RGBW color selection and mixing, color fade, color jump, strobe, flash, and more. 3M self-adhesive tape provides quick and easy mounting. Our RGB Strip Tape may be cut to size at clearly marked points every 2". One end has a wire lead with 4-Pin Connector for plug & play connection to the controller. The other end has wire leads that may be spliced to an additional connector. You may control up to two full reels (or two custom cut lengths) with a single controller by purchasing a 4-pin Y-connector.

RGB Strip Tape Specifications

	ILLT-RGB-12V	ILLT-RGB-24V
Input Voltage	Regulated 12VDC	Regulated 24VDC
Power Consumption	2.2W/ft 7.2W/mt	2.2W/ft 7.2W/mt
Minimum Cut	2.0" (50mm)	6.5" (165mm)
Maximum Run	(2) 16' lengths*	(2) 16' lengths*
Luminous Flux	200 lm/ft (600 lm/mt)	200 lm/ft (600 lm/mt)
Beam Angle	120°	120°
Ingress Protection	IP66	IP66
Compliance	U.L.	U.L.

*Must use ILLT-RGBCON-4PY "Y" Connector between both sections

Remote Control Functions



Brightness +	Brightness -	Off	On
Static red	Static green	Static blue	Static white
Static Orange	Static pea green	Static dark blue	3 color jumpy change
Static dark yellow	Static cyan	Static brown	3 color fade change
Static yellow	Static light blue	Static pink	7 color fade change
Static straw yellow	Static sky blue	Static purple	7 color jumpy change

RGB Controller & IR Remote

The RGBW Control Kit provides everything you need to operate your RGBW LED Strip Tape. It includes a 12/24V input Controller and IR hand-held 24 button Remote Control. The kit also includes a DC male connector for quick and easy connection to DC source. If DC supply is not regulated (i.e. from voltage-regulated power supply) then it is highly recommended to add a DC voltage stabilizer or conditioner to provide stable 12V or 24VDC power. Imtra has a range of affordable stabilizers and conditioners available for your convenience.

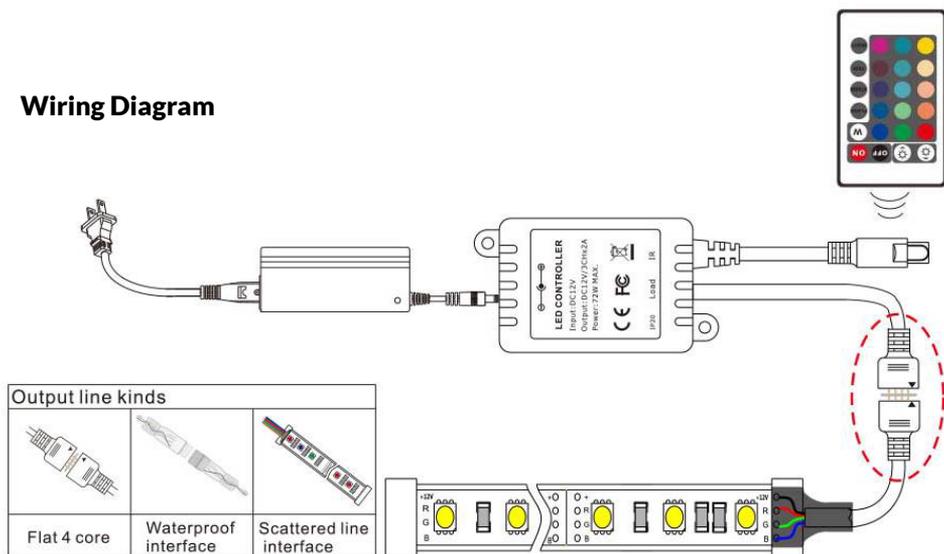
RGB Controller/IR Remote Specifications

Input Voltage	12/24VDC
Output Current	2A/Channel
Output Channels	3
Output Power	72W (12V), 144W (24V)
Connecting Mode	Common Anode
Max Operating Temp	140° F (60° C)
Ingress Protection	IP20
Compliance	CE, ROHS

General Installation Guidelines

1. Tape light is voltage specific. Be sure your model matches the voltage input (12VDC or 24VDC)
2. For use on boats, a voltage stabilizer or conditioner is highly recommended to protect product from overvoltage & transients.
3. This product cannot accept low voltage AC from a transformer (e.g. 12VAC or 24VAC).
4. Always turn power off at breaker before making connections.
5. Tape Light is polarity sensitive. Red (+) connect to POS, Black (-) connect to NEG.
6. Before making any modifications (cuts), connect uncut length of Strip Tape to controller & power to check functions.
7. Always unspool from reel before connecting to power. If this is not done, the heat generated will shorten life of product.
8. Seal any exposed cut ends with dab of silicone and End Cap.
9. Use alcohol or acetone to clean mounting surface of dirt and oil residue.
10. 4-Pin Connector is polarity sensitive. See diagram on page 4 for proper pin alignment.

Wiring Diagram



Power Source Recommendations

Our low voltage (12VDC or 24VDC) RGBW LED Strip Tape is designed for use with low voltage DC only. If stepping down voltage from a 120/230V source, a standard low voltage AC transformer will damage the product. You must use a voltage-regulated DC power supply or LED power converter for this purpose. Imtra carries a full range of voltage regulated LED Converters and DC stabilizers/conditioners. This product will perform optimally with constant voltage at or near the specified voltage input. For DC installation on boats, a power conditioner or voltage stabilizer is recommended to protect against over-voltage and transients. Imtra Corporation carries a range of Power Conditioners. See our website for more information on these products.

Limited Warranty

Imtra warrants this product for a period of 1 year from the date of purchase. If the tape light should cease to function or not perform as advertised, return the faulty sections for replacement. This warranty does not apply to damage resulting from actions of the user such as misuse, improper wiring/installation, operation outside of specification, improper maintenance or repair, unauthorized modification, lightning strike or damage from a power surge. Imtra specifically disclaims any implied warranties, merchantability or fitness for a specific purpose and will not be liable for any direct, indirect, incidental or consequential damages. Imtra's total liability is limited to repair or replacement of the product. The warranty set forth above is inclusive and no other warranty, whether written or oral, is expressed or implied. If it should become necessary to return product for replacement beyond the warranty period, please refer to Imtra's standard Return Policy as detailed on Imtra's website, www.imtra.com, or call Imtra customer service at 508.995.7000. No returns are accepted without a Return Authorization (RA) number.