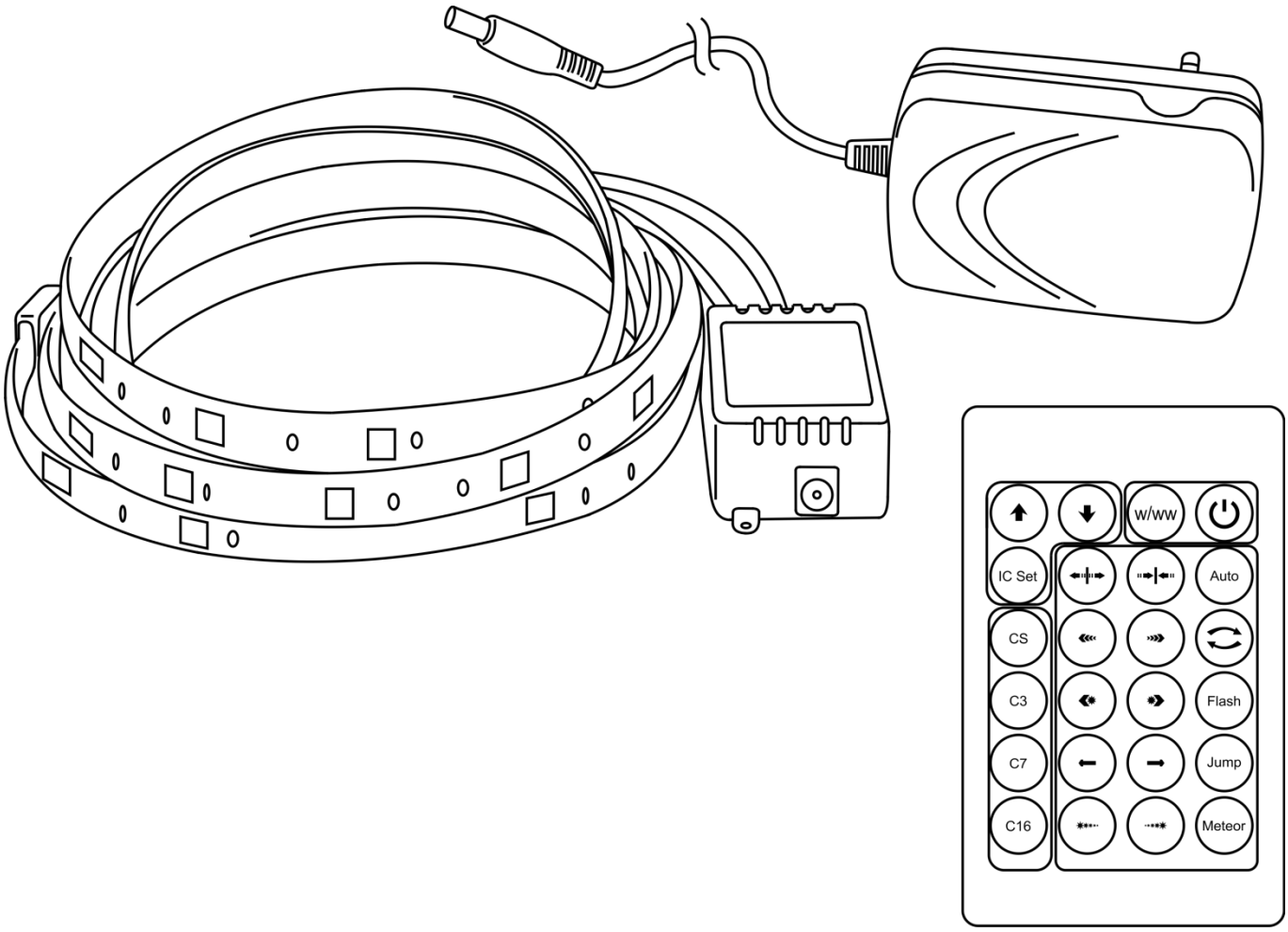
MANUAL



ENGLISH

Digital Flex Strip RGB V1

Ordercode: 42773

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Warning

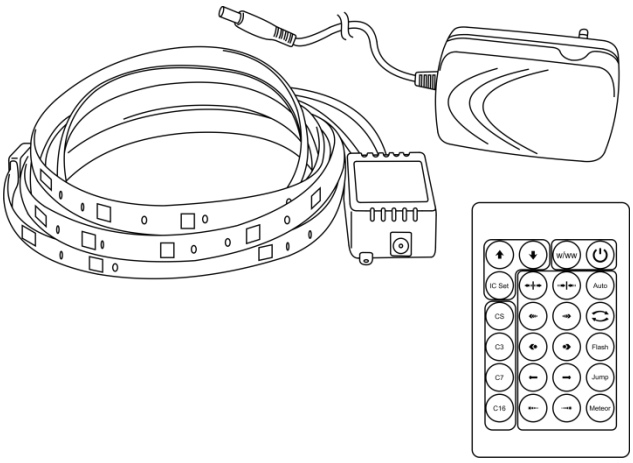
For your own safety, please read this user manual carefully before your initial start-up!

Unpacking Instructions

Immediately upon receiving this product, carefully unpack the carton and check the contents to ensure that all parts are present, and have been received in good condition. Notify the dealer immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

Your shipment includes:

- Showtec Digital Flex Strip RGB
- RGBW controller
- IR remote control
- 12V DC power adapter with power cable (1,5 m)
- User manual



LED Expected Lifespan

LEDs gradually decline in brightness over time. HEAT is the dominant factor that leads to the acceleration of this decline. Packaged in clusters, LEDs exhibit higher operating temperatures than in ideal or singular optimum conditions. For this reason, when all color LEDs are used at their fullest intensity, life of the LEDs is significantly reduced. If improving the lifespan is of higher priority, place care in providing for lower operational temperatures. This may include climatic-environmental and the reduction of overall projection intensity.

CAUTION!
Keep this device away from rain and moisture!
Unplug mains lead before opening the housing!

Safety Instructions

Every person involved with the installation, operation and maintenance of this device has to:

- be qualified
- follow the instructions of this manual

CAUTION! Be careful with your operations.
With a dangerous voltage you can suffer
a dangerous electric shock when touching the wires!

Before the initial start-up, please make sure that there is no damage caused by transportation. Should there be any, consult your dealer and do not use the device.

To maintain perfect condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes contained in this manual.

Please consider that damages caused by manual modifications to the device are not subject to warranty.

This device contains no user-serviceable parts. Refer servicing to qualified technicians only.

IMPORTANT:

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.

- Never let the power cord come into contact with other cables! Handle the power cord and all connections with the mains with particular caution!
- Never remove warning or informative labels from the unit.
- Never use anything to cover the ground contact.
- Never place any material over the LEDs.
- Never look directly into the light source.
- Never leave any cables lying around.
- Never use the Digital Flex Strip in sealed or hot places.
- Do not connect this device to a dimmerpack.
- Do not switch the device on and off in short intervals, as this will reduce the device's life.
- Do not shake the device. Avoid brute force when installing or operating the device.
- Only use the device indoors, avoid contact with water or other liquids.
- Only operate the device after having familiarized with its functions.
- Avoid flames and do not put close to flammable liquids or gases.
- Always disconnect power from the mains, when device is not used or before cleaning! Only handle the power cord holding it by the plug. Never pull out the plug by tugging the power cord.
- Always mount the Digital Flex Strip on aluminum or metal surface, for best heat dissipation.
- Make sure that the device is not exposed to extreme heat, moisture or dust.
- Make sure that the available voltage is not higher than stated on the rear panel.
- Make sure that the power cord is never crimped or damaged. Check the device and the power cord from time to time.
- If the LEDs are obviously damaged, they need to be replaced.
- If device was dropped or struck, disconnect mains power supply immediately. Have a qualified engineer inspect for safety before operating.
- If the device has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.
- If your Showtec device fails to work properly, discontinue the use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Showtec dealer for service.
- The user is responsible for correct positioning and operating of the Digital Flex Strip. The manufacturer will not accept liability for damages caused by the misuse or incorrect installation of this device.
- This device falls under protection class I. Therefore it is essential to connect the yellow/green conductor to earth.
- Repairs, servicing and electric connection must be carried out by a qualified technician.
- WARRANTY: Till one year after date of purchase.

CAUTION! Eyedamages!!!
Avoid looking directly into the lightsource!!!
(meant especially for epileptics)!!!

Operating Determinations

- This device is not designed for permanent operation. Consistent operation breaks will ensure that the device will serve you for a long time without defects.
- The minimum distance between light output and the illuminated surface must be bigger than 1 meter.
- The maximum ambient temperature t_a = 40°C must never be exceeded.
- The relative humidity must not exceed 50 % with an ambient temperature of 40° C.
- If this device is operated in any other way than the one described in this manual, the product may suffer damages and the warranty becomes void.
- Any other operation may lead to dangers like short-circuit, burns, electric shock, crash, etc.

You endanger your own safety and the safety of others!

Connection with the mains

Connect the device to the mains with the power-plug.
Always check if the right color cable is connected to the right place.

International	EU Cable	UK Cable	US Cable	Pin
L	BROWN	RED	YELLOW/COPPER	PHASE
N	BLUE	BLACK	SILVER	NEUTRAL
⏚	YELLOW/GREEN	GREEN	GREEN	PROTECTIVE GROUND

Make sure that the device is always properly connected to the earth!

Improper installation can cause serious injuries and/or damage of property!

Return Procedure

Returned merchandise must be sent prepaid and in the original packing, call tags will not be issued. Package must be clearly labeled with a Return Authorization Number (RMA number). Products returned without an RMA number will be refused. Highlite will not accept the returned goods or any responsibility. Call Highlite 0031-455667723 or mail aftersales@highlite.nl and request an RMA prior to shipping the fixture. Be prepared to provide the model number, serial number and a brief description of the cause for the return. Be sure to properly pack fixture, any shipping damage resulting from inadequate packaging is the customer's responsibility. Highlite reserves the right to use its own discretion to repair or replace product(s). As a suggestion, proper UPS packing or double-boxing is always a safe method to use.

Note: If you are given an RMA number, please include the following information on a piece of paper inside the box:

01) Your name
02) Your address
03) Your phone number
04) A brief description of the symptoms

Claims

The client has the obligation to check the delivered goods immediately upon delivery for any short-comings and/or visible defects, or perform this check after our announcement that the goods are at their disposal. Damage incurred in shipping is the responsibility of the shipper; therefore the damage must be reported to the carrier upon receipt of merchandise.

It is the customer's responsibility to report and submit claims with the shipper in the event that a fixture is damaged due to shipping. Transportation damage has to be reported to us within one day after receipt of the delivery.

Any return shipment has to be made post-paid at all times. Return shipments must be accompanied with a letter defining the reason for return shipment. Non-prepaid return shipments will be refused, unless agreed otherwise in writing.

Complaints against us must be prepared in writing or sent by fax within 10 working days after receipt of the invoice. After this period complaints will not be handled anymore.

Complaints will only then be considered if the client has so far complied with all parts of the agreement, regardless of the agreement from which the obligation is resulting.

Description of the device

Features

The Showtec Digital Flex Strip RGB is a LED strip with high output and great effects.

- Power supply: DC 12V 2A power adapter
- Power consumption: 26W
- Light source: 5050 RGB LEDs
- PCB: White, 12 mm wide
- Beam angle: 120°
- Control: Auto, Flash, Jump, Meteor, Static Color, White
- IP rating: IP20
- Dimensions: 5000 x 10 mm (LxW)
- Weight: 0,4 kg

Overview

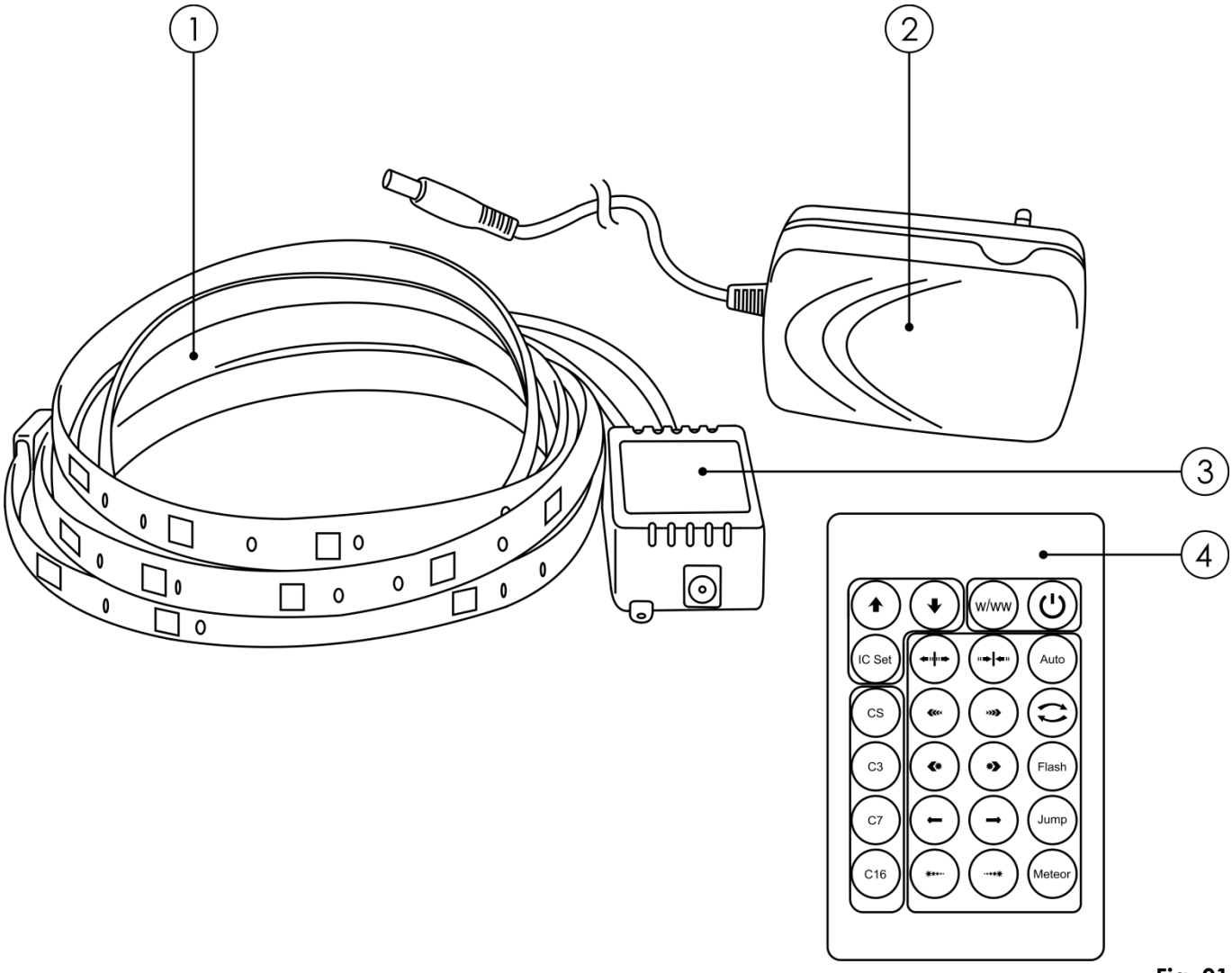


Fig. 01

01) Flexstrip 5050 RGB LEDs
02) DC 12V 2A power adapter
03) RGB controller
04) IR remote control

Installation

Remove all packing materials from the Digital Flex Strip RGB. Check if all foam and plastic padding is removed. Connect all cables.

Do not supply power before the whole system is set up and connected properly.
Always disconnect from electric mains power supply before cleaning or servicing.
Damages caused by non-observance are not subject to warranty.

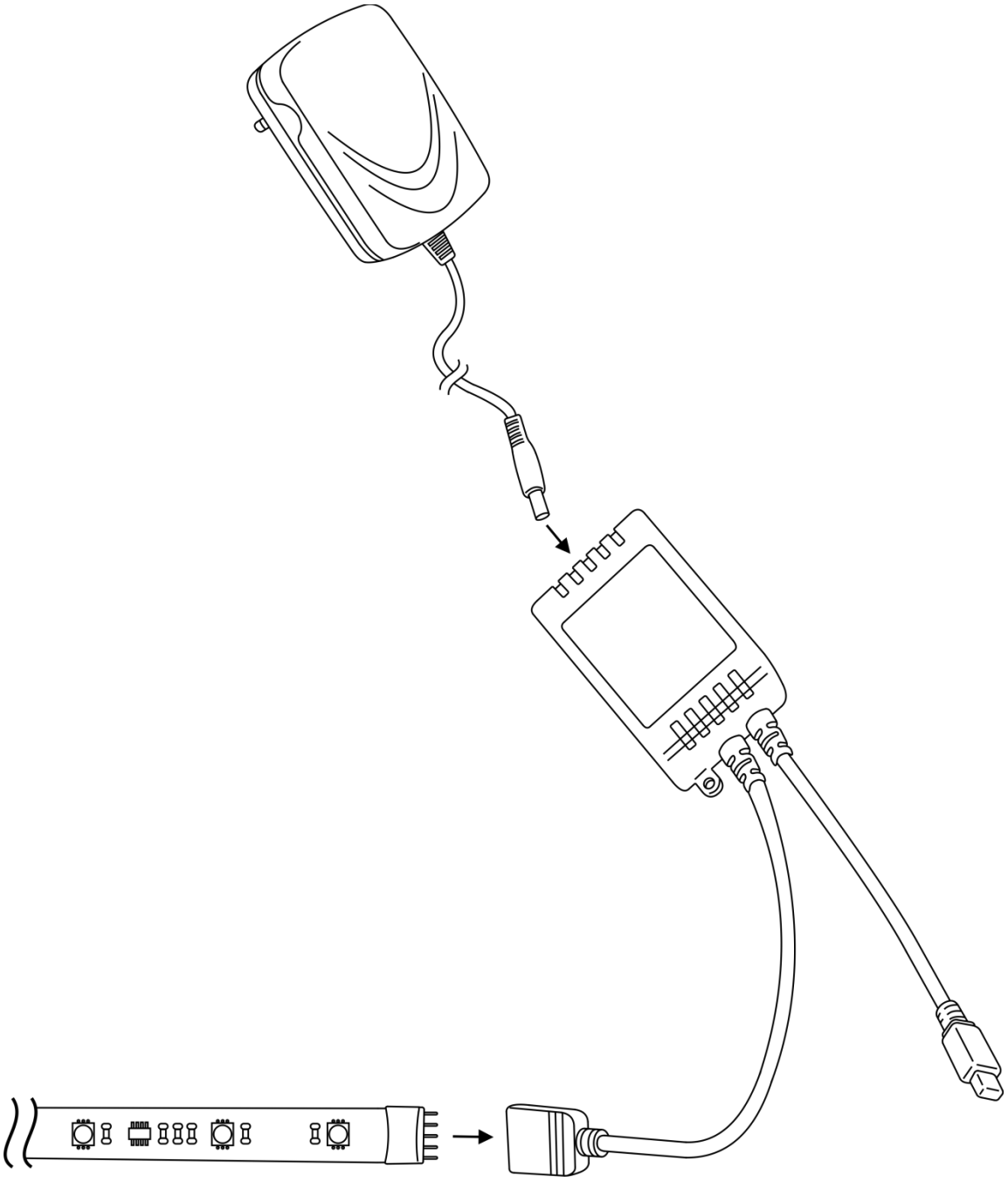


Fig. 02

01) For best heat dissipation, mount the LED strip on an aluminum or metal surface.
02) Connect the RGB controller to the LED strip.
03) Connect the power adapter to the RGB controller.
04) Plug the power adapter into the power supply.

Set Up and Operation

Follow the directions below, as they pertain to your preferred operation mode.
Before plugging the unit in, always make sure that the power supply matches the product specification voltage. Do not attempt to operate a 120V specification product on 230V power, or vice versa.
Connect the device to the main power supply.

Remote Control

The remote control is divided into several sections, responsible for different functions.

01) Point the remote control at the RGB controller.
02) Press the buttons to activate the desired functions.

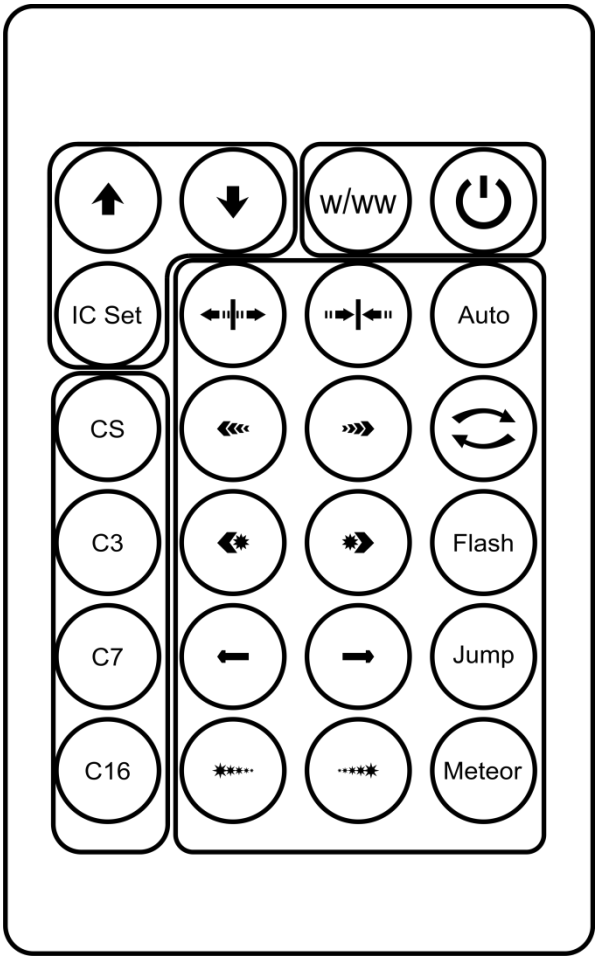


Fig. 03

Power Switch ON/OFF

01) Press the button to switch the device ON/OFF.

Cold/Warm White

01) Press the

button to switch between Cold and Warm White modes.

IC Settings

With this menu it is possible to (de)activate particular LED sections of the Digital Flex Strip.

01) Press the

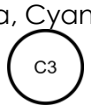
button to enter IC settings.

02) Press the and buttons to activate/deactivate LED sections.

Color Modes

01) Repeatedly press the

button to set the desired static color (Red, Green, Blue, Yellow, Magenta, Cyan, Cold White, Warm White).

02) Press the 

button to set the 3-color mode.

03) Press the

button to set the 7-color mode.

04) Press the

button to set the 16-color mode.

05) Once you have chosen the desired color mode, press the and buttons to set LED brightness. The adjustment range is from dark to brightest.

LED Effects

Once you have chosen a color mode, it is now possible to select a LED effect.

01) Press the and buttons to set the desired flow, respectively, from the center to the ends and from the ends to the center.

02) Press the and or buttons to set the trail effect, from right to left and from left to right.

03) Press the and buttons to set the color chase, respectively, from right to left and from left to right.

04) Press the and buttons to set the color run, respectively, from right to left and from left to right.

05) Press the and buttons to set the meteor effect, respectively, from right to left and from left to right.

06) Once you have chosen the desired effect, press the and buttons to set the effect speed.

Auto

01) Press the

button to start the auto program.

02) Press the and buttons to set the auto program speed.

Flash

01) Press the

button to start the flash effect.

02) Press the and buttons to set the flash speed.

Jump

01) Press the

button to start the strobe effect.

02) Press the and buttons to set the strobe frequency.

Meteor

01) Press the

button (or to start the meteor effect.

02) Press the and buttons to set the meteor effect speed.

Maintenance

The operator has to make sure that safety-related and machine-technical installations are to be inspected by an expert after every year in the course of an acceptance test.
The operator has to make sure that safety-related and machine-technical installations are to be inspected by a skilled person once a year.

The following points have to be considered during the inspection:
01) All screws used for installing the device or parts of the device have to be tightly connected and must not be corroded.
02) There may not be any deformations on housings, fixations and installation spots.
03) Mechanically moving parts like axles, eyes and others may not show any traces of wearing.
04) The electric power supply cables must not show any damages or material fatigue.

The Digital Flex Strip RGB requires almost no maintenance. However, you should keep the unit clean. Otherwise, the device's light output will be significantly reduced. Disconnect the mains power supply, and then wipe the LED strip with a cloth. Do not use alcohol or solvents.

Troubleshooting

This troubleshooting guide is meant to help solve simple problems.
If a problem occurs, carry out the steps below in sequence until a solution is found. Once the unit operates properly, do not carry out following steps.

No Light

If the light effect does not operate properly, refer servicing to a technician.
Suspect three potential problem areas as: the power supply, the LEDs, the remote control.
01) Power supply. Check if the unit is plugged into an appropriate power supply.
02) The LEDs. Return the Digital Flex Strip RGB to your Showtec dealer.
03) The remote control. Replace the battery.
04) If both of the above appear to be O.K., plug the unit in again.
05) If you are unable to determine the cause of the problem, do not open the Digital Flex Strip, as this may damage the unit and the warranty will become void.
06) Return the device to your Showtec dealer.

Problem	Probable cause(s)	Solution
The device does not function at all	No power to the device	• Check if power is switched on and cables are plugged in
	LEDs damaged	• Disconnect the fixture and return it to your dealer
	The power supply settings do not match local AC voltage and frequency	• Disconnect the device. Check settings and correct if necessary
The device works correctly but responds erratically or not at all to the remote control	The remote control battery is flat	• Replace the battery
No light or LEDs cut out intermittently	Device is too hot	• Allow the device to cool down • Turn up the air conditioning

Product Specifications

Model:	Showtec Digital Flex Strip RGB
Power supply:	DC 12V 2A power adapter
Power consumption:	26W
Dimensions:	5000 x 10 mm (LxW)
Weight:	0,4 kg
Electro-mechanical effects:	
Light source:	5050 RGB LEDs
PCB:	White, 12 mm wide
Beam angle:	120°
Control:	With the included remote control
IP rating:	IP20
Control:	Auto, Flash, Jump, Meteor, Static Color, White
Max. ambient temperature t_a:	40°C
Minimum distance:	
Minimum distance from flammable surfaces:	0,5 m
Minimum distance to lighted object:	1 m

Design and product specifications are subject to change without prior notice.

CE

Website: www.Showtec.info
Email: service@highlite.nl

Notes

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