LED STRIP · DMX512 RGBW

RGBW-DMX-1560

12 mm DMX512 pixel RGBW LED strip, 60 LEDs/m, 18.5 W/m · 24 V DC



PCB WIDTH	12 mm
POWER	18.5 W/m
VOLTAGE	24 V DC
PIXELS	10 / m
IC	UCS512C4
CONTROL	DMX512

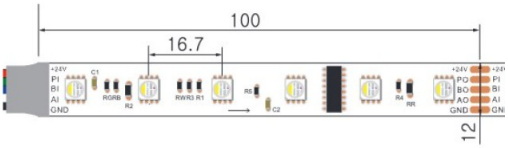
Overview

RGBW-DMX-1560 is a 12 mm RGBW LED strip with built-in DMX512 pixel ICs and a dedicated white channel in every LED. Compatible with the DMX512 (1990) protocol without an external decoder, with RS485 differential transmission for long, interference-free runs. One strip delivers both programmable colour scenes and functional white light; 10 pixels per metre, 24 V DC.

Specifications

Dimension	5000 × 12 × 2 mm (5 m reel)
LED	5050 SMD RGBW, 60 LEDs/m, 16.7 mm pitch
IC	DMX512 – UCS512C4
Pixels	10 / m
Cut unit	6 LEDs / 100 mm
Power	18.5 W/m (all channels on)
Current	0.77 A/m
Voltage	24 V DC
White channel	4000K (2700K, 3000K, 6000K on request)
Lead wire	150 mm, 5-core, 20 AWG
Protection	IP20 standard; IP65 on request
Beam angle	120°
PCB	2 oz copper, high-thermal 3M adhesive
Ambient temperature	−20 °C to +50 °C
Min. bend radius	50 mm

Cut Unit



ORDERING INFORMATION

Product Code

RGBW-DMX-1560	RGBW	24 V
MODEL	COLOUR	VOLTAGE
	DMX512	24 V DC

Specify white colour temperature when ordering. Example: **RGBW-DMX-1560**, 4000K, 24 V DC. Requires a DMX512 controller; set addresses with a DMX512 editor.

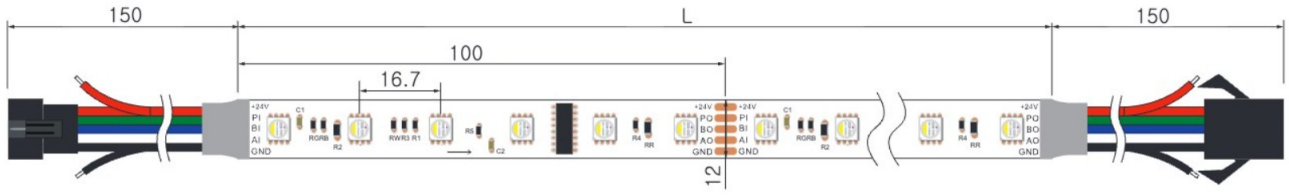
Photometric Data

CHANNEL	WAVELENGTH / CCT	POWER	LM/M	LM/W
Red	—	6 W/m	94	15.7
Green	—	6 W/m	247	41.2
Blue	—	6 W/m	77	12.8
White	4000K	6 W/m	321	53.5
RGBW (all on)	—	18.5 W/m	718	38.8

Measured on IP20 strip at 24 V DC, one channel at full output; RGBW = all channels on.

DIMENSIONS & INSTALLATION

Dimensions (unit: mm)



L = ordered length; connector leads at both ends. Cut every 100 mm (one pixel).

Wiring

CORE	FUNCTION
Red	V+ (24 V DC)
Black	V− (GND)
Signal pair	DMX512 data (RS485)

5-core lead wire, 150 mm, 20 AWG.

Control

Protocol	DMX512 (1990), RS485 differential
IC	UCS512C4
Pixel pitch	100 mm
Addressing	Automatic, with DMX512 editor

Pixel & Length

ITEM	VALUE
Pixel pitch / cut unit	100 mm
Pixels per metre	10
Reel length	5 m

Light output and power may vary by up to ±10% due to production and component tolerances.