LED STRIP · DMX512 RGB

RGB-DMX-1260

12 mm DMX512 pixel RGB LED strip, 60 LEDs/m, 14.4 W/m · 24 V DC



PCB WIDTH	12 mm
POWER	14.4 W/m
VOLTAGE	24 V DC
PIXELS	10 / m
IC	UCS512C4
CONTROL	DMX512

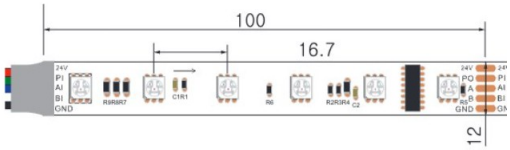
Overview

RGB-DMX-1260 is a 12 mm RGB LED strip with built-in DMX512 pixel ICs, compatible with the DMX512 (1990) protocol without an external decoder. RS485 differential signal transmission gives strong noise immunity and long cable runs, ideal for synchronised colour scenes integrated with the vessel's lighting control. Addresses are set automatically with a DMX512 editor; 10 pixels per metre, 24 V DC.

Specifications

Dimension	5000 × 12 × 2 mm (5 m reel)
LED	5050 SMD RGB, 60 LEDs/m, 16.7 mm pitch
IC	DMX512 – UCS512C4
Pixels	10 / m
Cut unit	6 LEDs / 100 mm
Power	14.4 W/m (all channels on)
Current	0.6 A/m
Voltage	24 V DC
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

RGB-DMX-1260	RGB	24 V
MODEL	COLOUR	VOLTAGE
	DMX512	24 V DC

Example: **RGB-DMX-1260**, 24 V DC. Requires a DMX512 controller; set addresses with a DMX512 editor.

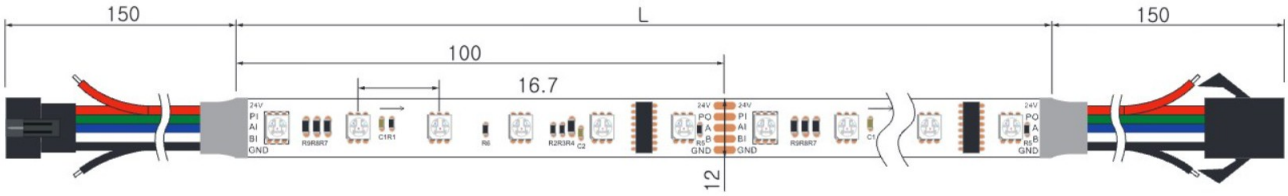
Photometric Data

CHANNEL	WAVELENGTH / CCT	POWER	LM/M	LM/W
Red	620–625 nm	4.63 W/m	134	29.0
Green	520–525 nm	5.04 W/m	433	86.0
Blue	465–470 nm	4.74 W/m	80	17.0
RGB (all on)	—	14.4 W/m	620	43.1

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