

HELIOS

RECESSED



User's Manual Rel 2.0 **GB**

D.T.S. Illuminazione srl - ITALY
<http://www.dts-lighting.it>



The Lighting Company

Made in Italy

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DESCRIPTION

HELIOS RECESSED

HELIOS R is a new compact LED projector designed for recessed installation by embedding in floors (featuring a reinforced structure offering high resistance to mechanical stress).

HELIOS R range comprises 3 models, which employ different sets of LEDs tailored for distinct applications: HELIOS R FULL COLOUR, HELIOS R RGB, HELIOS R WHITE.

HELIOS R FULL COLOUR: 15 x 3W Full Colour LEDs; 16 million colours; linear colour temperature 3200°K ÷ 5500°K; 16 selectable types of White.

The 15 Full Colour LEDs all generate the same colour at the same time, so that the illuminated object is not only uniformly lit, but also projects no false shadows.

HELIOS R RGB: 36 x 1W P4 LEDs (12 x Red, 12 x Green, 12 x Blue); 16 million colours; linear colour temperature 3200°K ÷ 5500°K. The LEDs distribution pattern guarantees high mixing quality for RGB colours and a uniform projection on surfaces, no matter what colour is used.

HELIOS R WHITE: 36 x 1W P4 LEDs (24 White, 12 x Amber); linear colour temperature 3200°K ÷ 5500°K.

HELIOS R WHITE is ideal in various applications where colour is not needed and white light must have well defined features.

Three interchangeable optical units are available (Spot, Medium flood, Wide flood).

Set-up and connection of the units to the dedicated Z1 OUTDOOR or Z8 power supply / LED controllers is fast and easy, thanks to M12 connection system.

HELIOS R in conjunction with Z1 OUTDOOR or Z8 can be controlled via any DMX lighting console.

HELIOS R is made on aluminium and stainless steel, offering an IP65 protection rating, and can be used either indoor or outdoor.

LED technology

HELIOS R FULL COLOUR: 15 x 3W Full Colour LEDs

HELIOS R RGB: 36 x 1W P4 LEDs (12 x Red, 12 x Green, 12 x Blue)

HELIOS R WHITE 36: 36 x 1W P4 LEDs (24 White, 12 x Amber)

No infrared emission; no ultraviolet emission

LEDs average lifespan: 100.000 hours

Optical units

3 lenses sets available (Spot, Medium flood, Wide flood)

Control

Via any DMX lighting console (Z1 OUTDOOR or Z8 power supply needed).

Protection

Ip65 protection level against the penetration of solids and liquids

Construction

HELIOS R is made on aluminium and stainless steel

Power supply

Dedicated Z1 OUTDOOR / Z8 power supply / LED controllers

Connection

M12 connection system

Weight

5,7 Kg

Packing Dimensions

(LxWxH)

300 x 210 x 330 mm

Weight

6 Kg



ACCESSORIES

- Lenses set Spot Full Colour (Cod. 03.LK.012)
- Lenses set Medium flood Full Colour (Cod. 03.LK.009)
- Lenses set Wide flood Full Colour (Cod. 03.LK.010)
- Lenses set Spot RGB / White (Cod. 03.LK.024)
- Lenses set Medium flood RGB / White (Cod. 03.LK.025)
- Lenses set Wide flood RGB / White (Cod. 03.LK.026)
- Z1 OUTDOOR power supply / LED controller (Cod. 03.LA.009.IP65)
- Z8 power supply / LED controller M12 outputs (Cod. 03.LA.075.V2)
- 4X2XAWG24 multipolar black outdoor cable (Cod 0509C062)

IMPORTANT SAFETY INFORMATION

Fire prevention:

Never locate the fixture on any flammable surface.
Minimum distance from flammable materials: 10 cm

Safety:

The external surface of the unit may exceed 50°C, never handle the unit until at least 5 minutes have elapsed since the unit was turned off.

Never install the unit in an enclosed area lacking sufficient air flow.

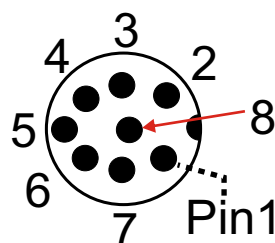
The ambient temperature should not exceed 40°C and should not be lower than -10°C.

WIRING DIAGRAM

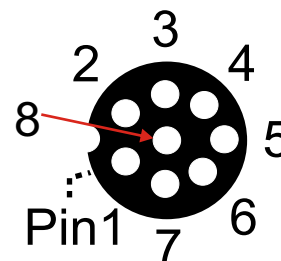
HELIOS R is provided with 1,5 m cable and M12 male cable connector

Pin 1 = RED +
Pin 2 = RED -
Pin 3 = GREEN +
Pin 4 = GREEN -
Pin 5 = BLUE +
Pin 6 = BLUE -
Pin 7 = AMBER - (NOT USED)
Pin 8 = AMBER + (NOT USED)

M12 LED input
Male cable connector
on board:
HELOS R all models



M12 LED output
Female panel connector
on board Z1 OUTDOOR
/ Z8 M12 power supply



For application where IP65 rating is not necessary, HELIOS R cabling connection can be done with a standard UTP TIA/EIA 568-B2 category 5E cable.

For IP65 rating application, D.T.S. recommends the use of a IP68 cable as the 4X2XAWG24 multipolar black outdoor cable (D.T.S. Code: 0509C062).

The maximum distance between Z1 OUTDOOR power supply and the HELIOS R unit (all models) should not exceed 100 meters.

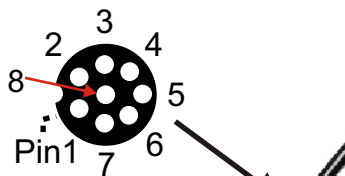
The maximum distance between Z8 power supply and the HELIOS R WHITE, HELIOS R RGB should not exceed 100 meters.

The maximum distance between Z8 power supply and the HELIOS R FULL COLOUR, should not exceed 50 meters.

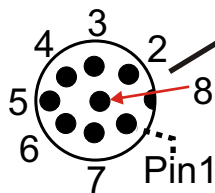
WIRING CONNECTIONS

Z1 OUTDOOR DMX-512 LED driver
Code 03.LA.009.IP65

**M12 LED
Female cable
connector
on board:
Z1 OUTDOOR**



**M12 LED
Male cable
connector
on board:
HELIOS R all models**

**IMPORTANT:**

The maximum number of HELIOS R connectable to the Z1 Power supply is 1 pcs.

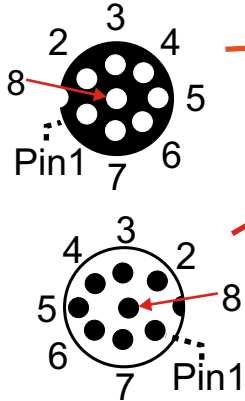
The maximum distance between Z1 power supply and the HELIOS R unit (all models) should not exceed 100 meters.

Never plug in a HELIOS R unit when the power supply is turned on.

WIRING CONNECTIONS

Z8 DMX-512 LED driver (M12 outputs)
Code:03.LA.075.V2

M12 LED
Female cable
connector
on board:
Z8 M12 outputs



M12 LED
Male cable
connector
on board:
HELIOS R all models



IMPORTANT:

The maximum number of HELIOS R connectable to the Z8 Power supply is 1 pcs each LED output (8 pcs totally).

The maximum distance between Z8 power supply and the HELIOS R WHITE, HELIOS R RGB should not exceed 100 meters.

The maximum distance between Z8 power supply and the HELIOS R FULL COLOUR, should not exceed 50 meters.

Never plug in a HELIOS R unit when the power supply is turned on.

HELIOS R MODELS

HELIOS R FULL COLOUR (Spot) (Cod. 03.LDB006.N)

Spot lenses

HELIOS R FULL COLOUR (Medium flood) (Cod. 03.LDB006.M)

Medium flood lenses

HELIOS FULL COLOUR (Wide flood) (Cod. 03.LDB006.W)

Wide flood lenses

HELIOS R RGB (Spot) (Cod. 03.LDB033.T08)

Spot lenses

HELIOS R RGB (Medium flood) (Cod. 03.LDB033.T25)

Medium flood lenses

HELIOS R RGB (Wide flood) (Cod. 03.LDB033.T40)

Wide flood lenses

HELIOS R WHITE (Spot) (Cod. 03.LDB033.W08)

Spot lenses

HELIOS R WHITE (Medium flood) (Cod. 03.LDB033.W25)

Medium flood lenses

HELIOS WHITE (Wide flood) (Cod. 03.LDB033.W40)

Wide flood lenses

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MADE IN ITALY



The Lighting Company

ISO 9001:2000

D.T.S quality system

Is certified to the

ISO 9001:2000 standard

D.T.S. Products are designed
And manufactured at the D.T.S
Plants in Italy



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