



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





HL16 K2 RGB LED LIGHT ENGINE



OPERATING CONDITIONS

- ▲ Operating Ambient Temperature -10°C to +40°C (14°F to 104°F)
- ▲ Maximum Current 350mA
- ▲ Recommended drivers = Color driver DMX, Color driver RF, or Color driver SL

MECHANICAL DIMENSIONS

Diameter = 50.0mm (1.97")

Height = 36.0mm (1.42"), 37.5mm (1.48") with sub lens attached

Lead Length = 150mm (5.91")

PART NUMBER

HL16K-RGB

FEATURES / BENEFITS

- ▲ Individually controllable red, blue and green LED's complete with heatsink housing comparable to MR16 size
- ▲ Ability to create infinite numbers of colors or dynamic color changing effects
- ▲ Easy retrofit to existing MR16 fixtures
- ▲ Sub-lenses included for choice of light distribution
- ▲ Long life of 50,000hrs at 40°C (104°F) ambient temperature
- ▲ Optimized thermal management
- ▲ No UV or IR
- ▲ Available Color Kinetics pass through license, consult factory for details

APPLICATION

- ▲ Dynamic color changing
- ▲ Accent lighting
- ▲ Landscape lighting
- ▲ Display cases
- ▲ Anywhere MR16 lamps are used

MATERIALS/FINISH

- ▲ LUXEON® K2 LEDs
- ▲ Die Cast aluminum heatsink construction
- ▲ Wide & micro sub-lenses included

ASSOCIATED CABLES

RJ45-CON-ASSY : Connector assembly (1 required per HL16K-RGB)

RJ45-C : Termination plug

RJ45-XLRM : RJ45 male to 3-pin DMX male 100mm (3.9") cable

RJ45-XLRF : RJ45 male to 3-pin DMX female 100mm (3.9") cable

CDL-M3M : Molex male to male 3m (9.8') cable

Dialight reserves the right to make changes at any time in order to supply the best product possible.

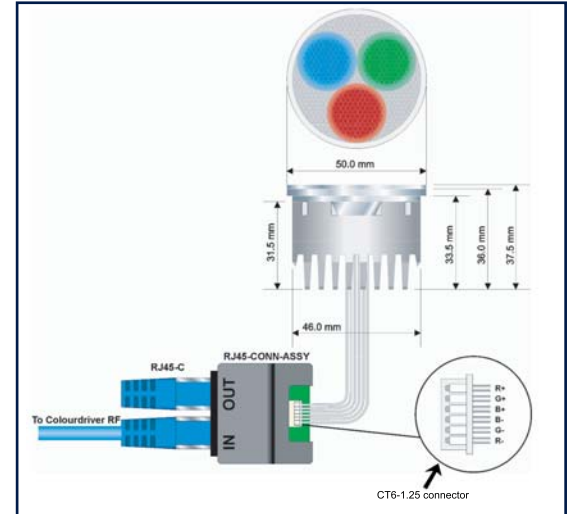
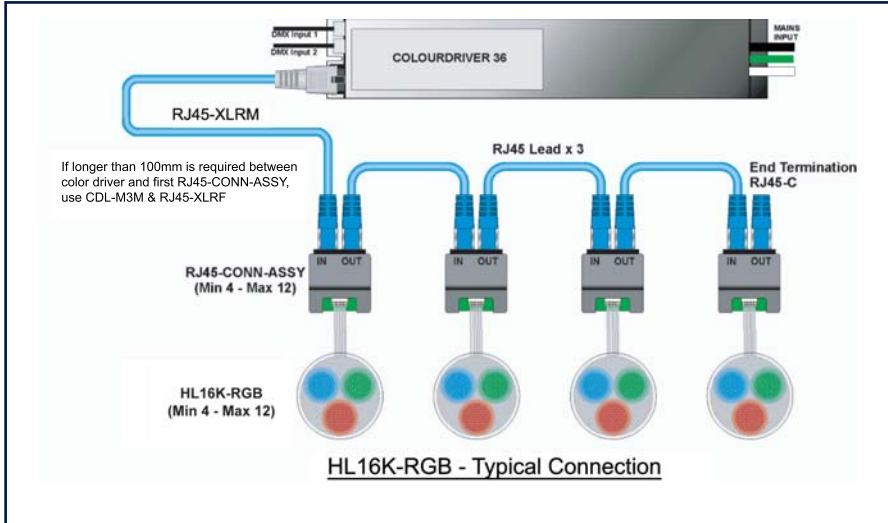
Dialight Corporation

1501 Route 34 South • Farmingdale, NJ 07727 USA

Tel: (1) 732-919-3119 • Fax: (1) 732-751-5778 • www.dialight.com

MDEXLUMHL16K2RGB_C

WIRING INFORMATION



COMPATIBLE DRIVERS

Model	Maximum number of HL16s connected	Supply Voltage	Dimming	Dimensions
Colordriver RF	6	110 - 240 V	X	179 x 53 x 32 mm
Colordriver 36	4 - 12	110 - 240 V	X	310 x 55 x 45 mm

ELECTRICAL SPECIFICATIONS

Power Consumption = 7.2 watts
Maximum Current = 350mA constant current

TYPICAL LED PHOTOMETRIC DATA

LED	Color	Forward Voltage (Typ)	Max. Current (mA)	Max. Power (Watts)	Dom Wavelength / CCT			Min Luminous Flux (lm) / Radiometric Power (mW)	Typ Luminous Flux (lm) / Radiometric Power (mW)
					Min	Typ	Max		
	Red	2.95	350	1.03	620.5 nm	627 nm	645 nm	30.6 lm	45 lm
	Green	3.42	350	1.20	520 nm	530 nm	550 nm	39.8 lm	45 lm
	Royal Blue	3.42	350	1.20	440 nm	455 nm	460 nm	175 mW	200 mW

Results are LED manufacturer's test data @ 25°C JTC. Light output at 55°C PCB temperature will be approximately 15-20% lower. Elevated temperatures will result in further degradation of light output. For maximum performance use appropriate heat sinking.

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