

<b>Order code</b>	<b>Manufacturer code</b>	<b>Description</b>
55-2058	RJ45-0.5	RJ45 TO RJ45 0.5 METRE LINK CABLE (RC)
55-2044	n/a	CDURF-TX COLOURDRIVER RF REMOTE (RC)
55-2042	n/a	CDUSL-3-35 COLOURDRIVER RF SLAVE (RC)
55-2054	RJ45-CON-ASSY	RJ45-CON-ASSY RJ45 CONNECTOR ASSEMBLY RC
55-2040	n/a	CDURF-3-35 COLOURDRIVER RF MASTER (RC)
55-2056	RJ45F-MLXM	COLOURDRIVER - MOLEX MALE ASSEMBLY (RC)
55-2046	n/a	HL16-RGB HALOLED MR16 LAMP RGB (RC)
55-2050	n/a	HL16-WW HALOLED MR16 LAMP W/WHITE (RC)
55-2052	RJ45-C	RJ45-C RJ45 TERMINATION PLUG (RC)
55-2048	n/a	HL16-W HALOLED MR16 LAMP WHITE (RC)

	Page 1 of 8
The enclosed information is believed to be correct, Information may change 'without notice' due to product improvement. Users should ensure that the product is suitable for their use. E. & O. E.	Revision A 12/12/2006

# LumiDrives



www.lumidrives.com

## Colourdriver™ RF



### Remote Control Colour Change

*What the lighting industry has been waiting for!*

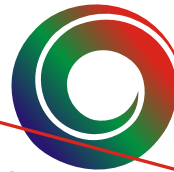
The Colourdriver™ RF represents true innovation in LED lighting. A powerful LED driver combined with an intuitive RF remote control.

The Colourdriver™ RF enables new applications with simplicity.

Each Master unit and each Slave Unit can drive up to 18 LEDs and each Master Unit can drive up to 256 Slave units, thus creating the facility for controlling very large arrays of LED lighting with a single remote control unit.



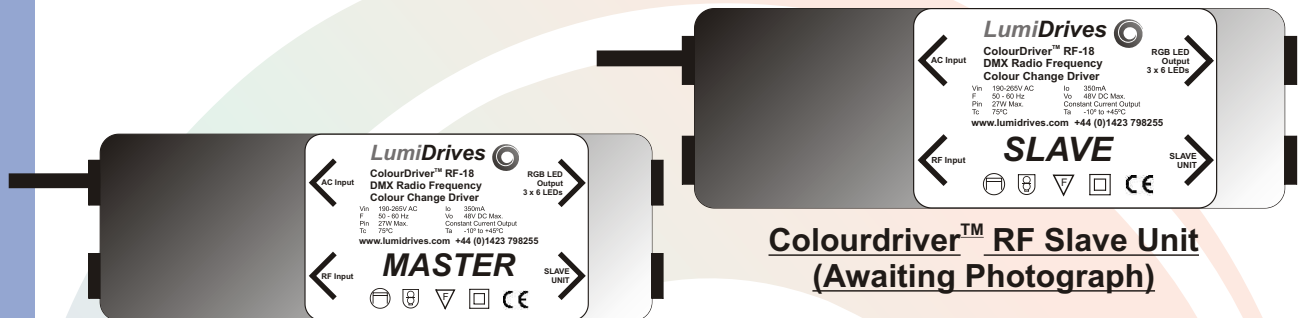
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Product Data

**New Product!**

## Colourdriver™ RF - Remote Colour Change



**Colourdriver™ RF Master Unit  
(Awaiting Photograph)**

**Colourdriver™ RF Slave Unit  
(Awaiting Photograph)**

### FEATURES

- ⚙ Simple Plug-and-Play
- ⚙ No Need for Separate Data Wiring
- ⚙ No Complex Control Set Up
- ⚙ Up To 300m Remote Range
- ⚙ Enrolling Facility for Multiple Remotes
- ⚙ Compatible with Lumidrive's Colour Engines

### APPLICATIONS

- ⚙ Track Lighting
- ⚙ Downlighting
- ⚙ Floodlighting
- ⚙ Linear Wallwash
- ⚙ Landscape
- ⚙ Pool Lighting
- ⚙ Consumer / Residential
- ⚙ Retail Display
- ⚙ Bars / Restaurants



### Connection Limitations

1W LEDs per Master Unit	18
1W LEDs per Slave Unit	18
No. of Slaves per Master Unit	256
Max. Cable Length to LEDs	10M
Total Circuit Cable Length	1kM

**Colourdriver™ RF  
Remote Control  
300M Range**



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Data Sheet - Colourdriver™ RF - Issue-A

Page 2

## Colourdriver RF Master/Slave Specification

### Input

Input Voltage Range	( $V_{in}$ )	93 265V AC
Frequency	(f)	50 60 Hz
Power Consumption	( $P_{in}$ )	27 watts
Efficiency at max. load	( $\eta$ )	80% Typ.
Insulation		Double insulated to EN60950

### Output

Power Output Range	( $P_{och}$ )	1 7.2 watts per channel
Output Current	( $I_o$ )	350mA
Output Voltage	( $V_o$ )	24 volts
Open Circuit Voltage	( $V_{oc}$ )	32 volts
No. of Slaves per Master		256

### Environmental

Operating Ambient Temperature	( $T_{op}$ )	+50
Ambient Storage Temperature	( $T_{st}$ )	+60
Case Temperature	( $T_c$ )	+85
Relative Humidity	(RH)	90% non-condensing
Lifetime (failures after 50,000 hours)	( $L_{50k}$ )	5%

### Mechanical

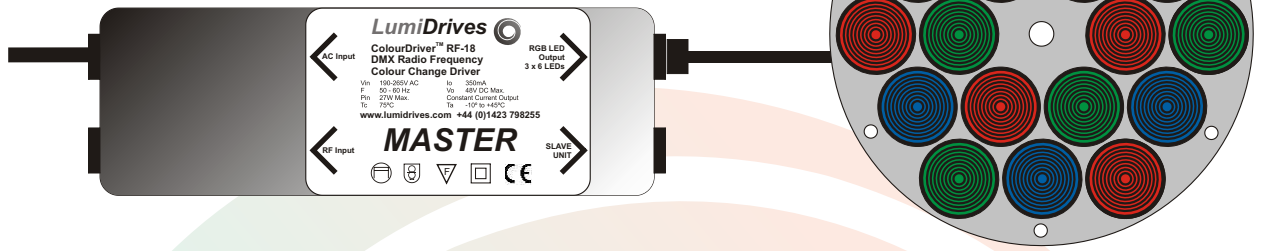
	Cased Version	PCB Version
Dimensions	Approx. 160x50x30mm	
AC input	Wago Cage Clamps 2 per pole	
LED Output	8 way molex microfit 3	
Control Input / Output	RJ45	
Mounting		

## Colourdriver RF Remote Control Specification

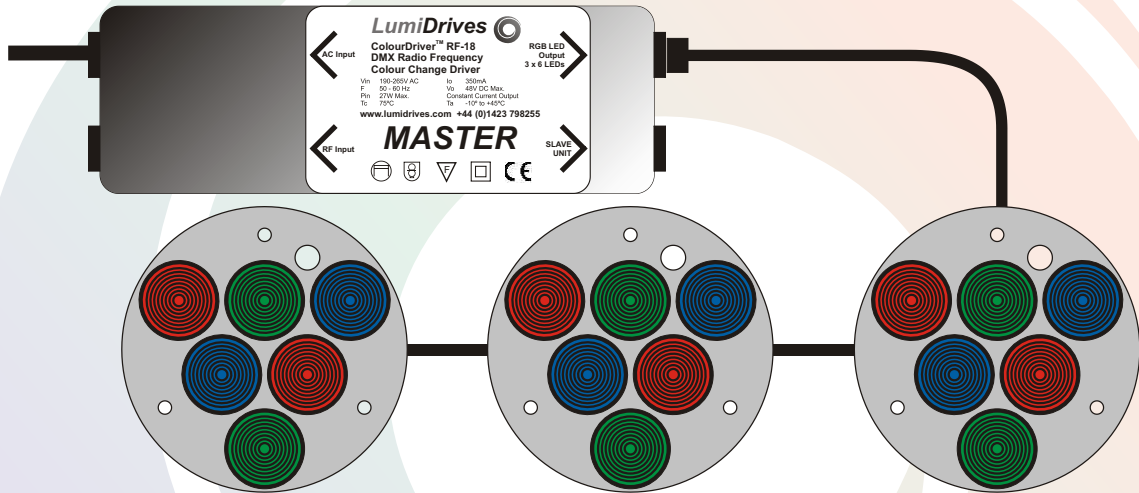
### General

Battery Voltage/Type	AAA alkaline cell
Battery Life	>30,000 key presses
RF Frequency Range	433.92MHz.
Modulation	FM
Dimensions	L96.0mm x W47.0mm x H24.0mm

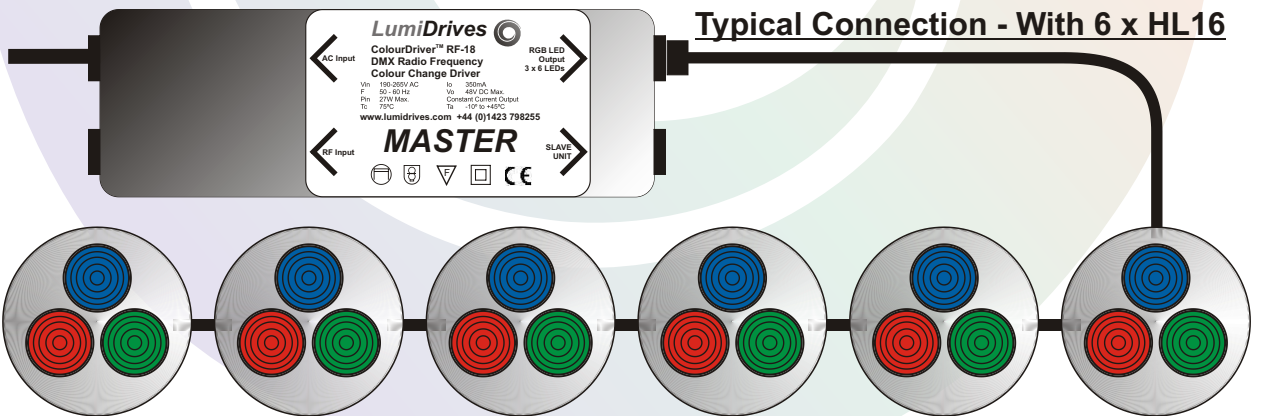
## Typical Connection - With Colour Engine 18



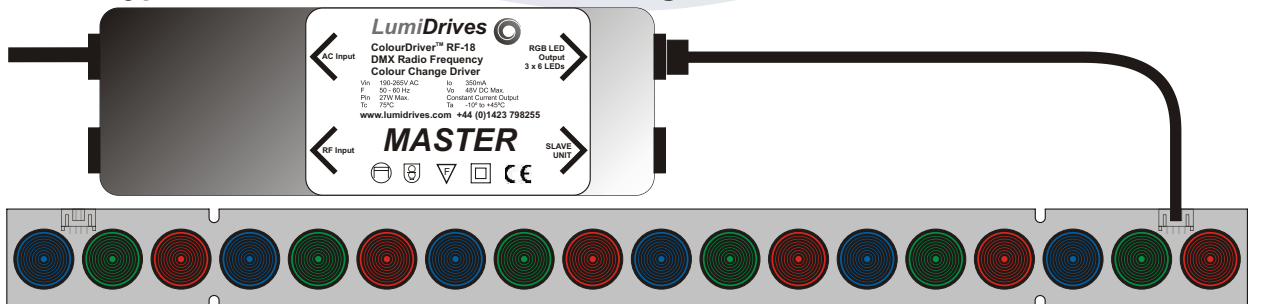
## Typical Connection - With 3 x Colour Engine 6



## Typical Connection - With 6 x HL16



## Typical Connection - With Colour Engine 18L



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## Colourdriver™ RF Remote Control functions

### **PAUSE**

The *PAUSE* button enables the user to halt the colour change sequence at exactly the colour they require, or switch off the colour change if the button is held down.

### **INDICATOR LAMP**

The *INDICATOR LAMP* flashes whenever a button is pressed, indicating that the battery is okay and that a signal is being transmitted.

### **FORWARD**

The *FORWARD* button starts the pre-programmed colour sequence.

### **SLOW / REVERSE**

The *SLOW / REVERSE* button slows down the colour change sequence, or if the sequence has been paused, it will move backward through the sequence, step by step.

### **FAST / FORWARD**

The *FAST / FORWARD* button speeds up the colour change sequence, or if the sequence has been paused, it will move forward through the sequence, step by step.

### **MEMORY 1**

The *M1* button stores a colour scene in one of two memory locations.

To operate this, having selected the required colour scene with the *PAUSE* button, the user presses and holds down the *M1* button until the LEDs flash off and on.

The colour scene is then stored and may be retrieved at any time by pressing *M1* or changed again by repeating the store procedure.

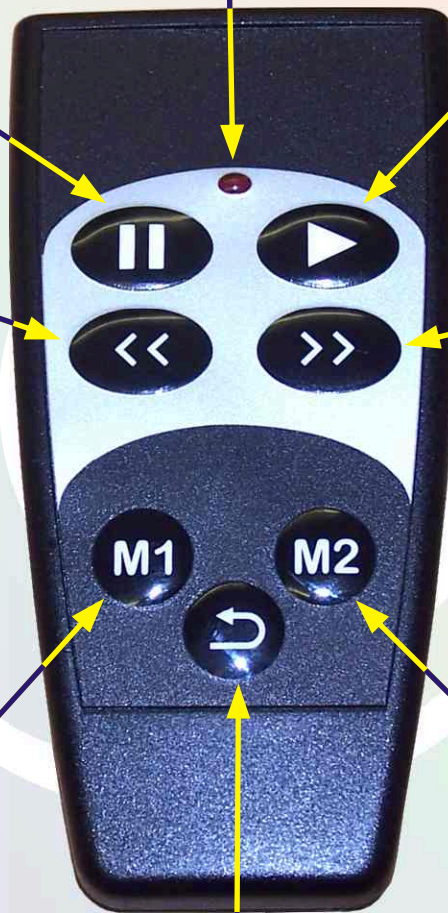
### **MEMORY 2**

The *M2* button operates in exactly the same way as *M1* and will store a colour scene in the second of two memory locations.

Once the two memories are programmed, it is possible to switch instantly from one stored colour scene to the other by pressing *M1* and *M2*.

### **MEMORY BLEND**

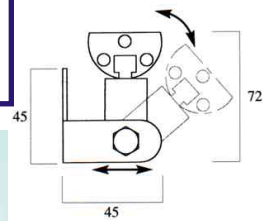
The *MEMORY BLEND* button begins a sequence which changes the colour scene stored in *M1* into the colour scene stored in *M2* and back again in a smooth transition colour change.



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## Application Possibilities - Retail



**Colourdriver™ RF  
Wallwash Concept  
Using Remote Driver**



**Colourdriver™ RF  
Downlight/Tracklight  
Housing Concept**

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Data Sheet - Colourdriver™ RF - Issue-A

Page 6

# LumiDrives



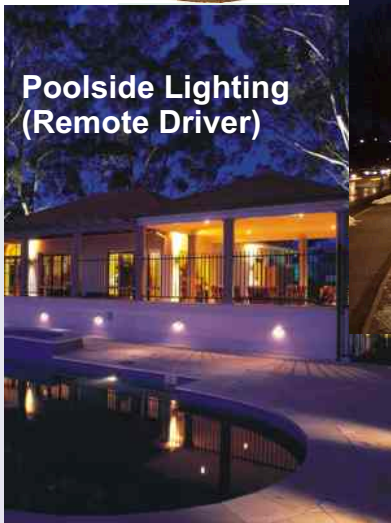
## Application Possibilities - Outdoor



**Underwater Lighting  
(Remote Driver)**



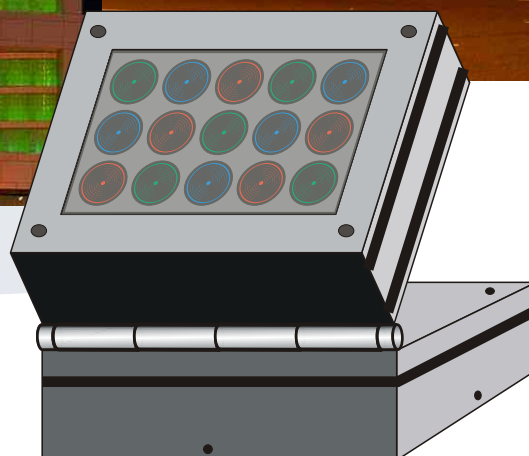
**Poolside Lighting  
(Remote Driver)**



**Street Lighting  
(Driver in situ)**



**Architectural Lighting  
(Integral Driver)**



**Colourdriver™ RF  
Floodlight  
Housing Concept**

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Data Sheet - Colourdriver™ RF - Issue-A

Page 7