DMS
TECHNOLOGY

L E D   c o n t r o l l e r

CRMR-DRIVER-24V

ColorRay 4

ColorRay MR

ColorRayMR DMX Driver

▶ FEATURES

- ☐ ColorRay MR DMX Driver is a high performance unit for driving a range of 1W/3W LED RGBA lighting, with 1 output terminal and RJ 45 socket
- ☐ 10-position and 6-position Dip-switches for DMX address, work mode and output mode setup.
- ☐ USITT DMX512(1990) multiplexed digital control, via 3 pin connector terminals.
- ☐ DMX Control Mode and Stand Alone Mode built in .
- ☐ 0~100% fade time.
- ☐ 0.1S~30S chasing speed.
- ☐ Built-in programs 1~7 and a sequence of 7 programs(Auto).
- ☐ Ability to select up to 4 output group modes, including 1 Group, 2 Group, 3 Group and 4 Group.
- ☐ Up to 4 output loading modes available, including RGB mode, RGBA, White mode and White & Warm mode.
- ☐ Compact footprint
- ☐ Power Failure Memory.

▶ SPECIFICATION

DC INPUT	DC 24V / DC48V (Version Dependant)
DATA INPUT	DMX 512 - 3-pin terminal socket
DATA OUTPUT	DMX data out - 3-pin terminal socket
OUTPUT	1pcs of 8-pin terminal sockets 3x350-700mA per output Version Dependant
HOUSING:	Sheet metal with powder painting
INGRESS PROTECTION RATING	IP20
CONTROL	DMX-512 (1990)
LISTING	CE certified
OPERATION TEMPERATURE	-10 degC to +50 degC
STORAGE TEMPERATURE	-20 degC to +70 degC
DIMENSION	117.6mm(L) x 80(W) x 23mm(H)
WEIGHT	0.8Kg

▶ PHYSICAL DIMENSIONS
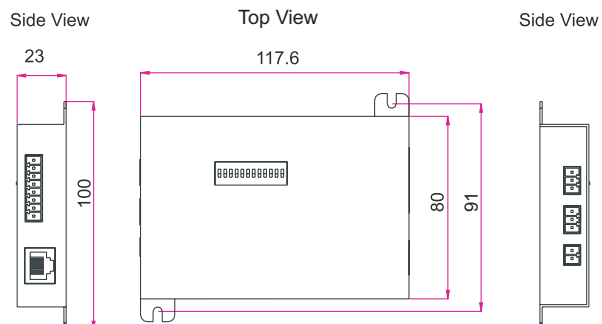
Side View
23

Top View
117.6

Side View

100

80

91

▶ PHYSICAL DIMENSIONS & ORDERING INFORMATION

45

2.5

⌀31 ⌀50
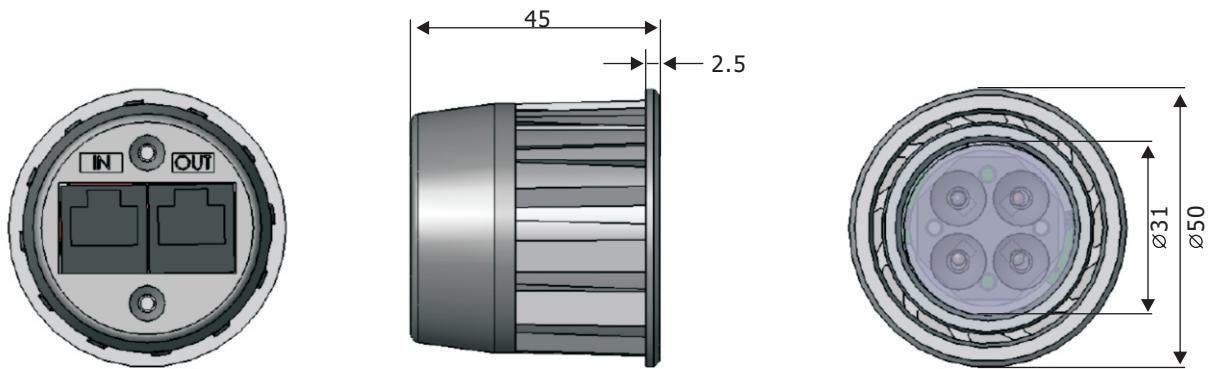
Part Number	Description
CRMR-8W-WW-20	MR-16 WW Luxeon Rebelx4 LED
CRMR-8W-RGBA-20	MR-16 RGBA Luxeon Rebelx4 LED
CRMR-8W-WW-40	MR-16 WW Luxoen Rebelx4 LED
CRMR-8W-RGBA-40	MR-16 RGBA Luxeon Rebelx4 LED
CRMR-8W-WW-2040	MR-16 WW Luxeon Rebelx4 LED
CRMR-8W-RGBA-2040	MR-16 RGBA Luxeon Rebelx4 LED

SYSTEM CONNECTION SCHEMATIC DIAGRAM

4   3   2   1

ColorRay MR Driver

RJ45

END CAP

AR-32C
Architectural System

AR-32P
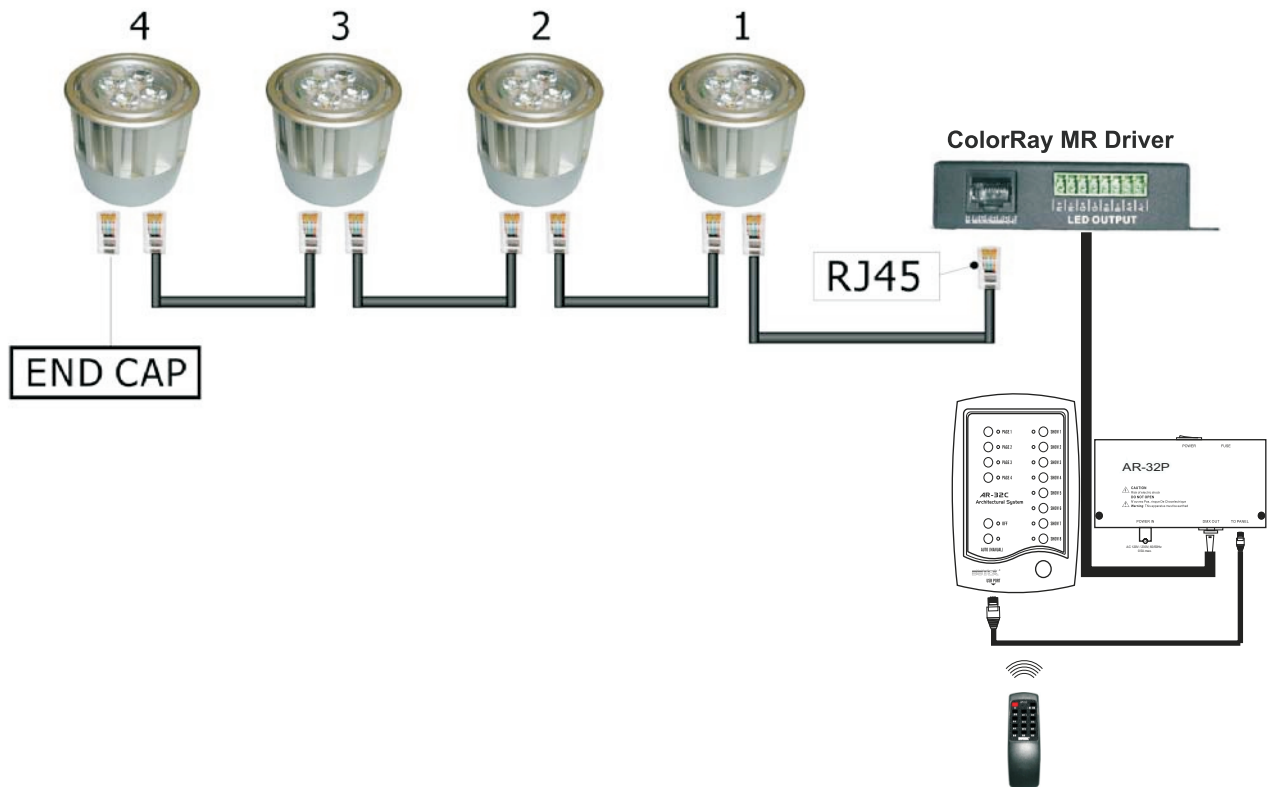
Note:

For more information about ColorRay MR Driver, please refer to the following contents in this manual.

▶ **ABOUT ColorRay MR Driver**

1.Operation Guide

1.1 DMX Control Mode(DMX Addressing)

DMX is short for Digital Multiplex. This is a universal binary language used as a form of communication between intelligent fixtures. Each dip switch represents a binary value.

Dip Switch 1 address equals 1
Dip Switch 2 address equals 2
Dip Switch 3 address equals 4
Dip Switch 4 address equals 8
Dip Switch 5 address equals 16
Dip Switch 6 address equals 32
Dip Switch 7 address equals 64
Dip Switch 8 address equals 128
Dip Switch 9 address equals 256

DMX ADDRESS (SLAVE) (Dip Switch 10 = on)			
START CH#	SWITCHES ON	START CH#	SWITCHES ON
1	1	11	1,2,4
2	2	12	3,4
3	1,2	13	1,3,4
4	3	14	2,3,4
5	1,3	15	1,2,3,4
6	2,3	:	:
7	1,2,3	:	:
8	4	:	:
9	1,4	:	:
10	2,4	511	1,2,3,4,5,6,7,8,9

In this mode, the dip-switch 10 is flipped to the "ON" position. And this switch sometimes used to activate some fixture special functions.

A DMX value(address) is set by combining the different dipswitches that will add up to the value you wish to achieve, for example:

Setting DMX address for 21.
Flip switches1,3,&5 to the
"ON" position

$$1=1$$
$$3=4$$
Dipswitches# $\underline{5=16}$ Value
$$=21$$

Setting DMX address for 201.
Flip switches1,4,7,& 8 to the
"ON" position

$$1=1$$
$$4=8$$
Dipswitches# $7=64$ Value
$$\underline{8=128}$$
$$=201$$

The Stand Alone Mode is engaged in by flipping the dip-switch 10 to the "OFF" position. And this mode includes sub-modes with many functions, such as fade time, chasing speed, built-in programs.

ON
↑
↓
OFF

ON										RS	
1	2	3	4	5	6	7	8	9	10	11	12

1.2.1 Setting fade time

1) The Stand Alone Mode enables.
2) Thus, flip the dip-switch 1,2 & 3(12-way Function Dip Switch) to set a desired level for fade time.

ON
↑

1	2	3

FADE TIME

(Dip Switches 10 = off)

"0" = "OFF" position
"1" = "ON" position.

000	0%
100	14%
010	28%
110	43%
001	57%
101	71%
011	86%
111	100%

1.2.2 Adjusting chase speed

1) The Stand Alone Mode enables;
2) Thus, flip the dip-switch 4,5 & 6(12-way Function Dip Switch)to adjust a desired level for chasing speed.

SPEED
(Dip Switches 10 = off)

"0" = "OFF" position
"1" = "ON" position.

000	0.1S
100	0.2S
010	0.5S
110	1S
001	5S
101	10S
011	20S
111	30S

1.2.3 Selecting Built-in programs

1) The Stand Alone mode enables;

2) Thus, flip the dip-switch 7,8 & 9 (12-way Function Dip Switch) to select the desired program.

PROGRAM
(Dip Switches 10 = off)

"0" = "OFF" position
"1" = "ON" position.
AUTO=a sequence of 7 programs

000	1
100	2
010	3
110	4
001	5
101	6
011	7
111	AUTO

1.3 Loading Mode Setting

In this function, user can flip the dip-switch 11 & 12(12-way function Dip Switch) to select the desired Output Loading Mode.

OUTPUT
1 =ON
0=OFF

00	SINGLE
10	COLOR
01	RGB
11	RGBA

OUTPUT TERMINALS

| 1	2	3	4	5	6	7	8
Red+	Red-	Green+	Green-	Blue+	Blue-	A/W+	A/W-

1) SINGLE Output Mode, one output with R.G.B.A which was controlled by DMX channel 1, the output of R.G.B.A is identical.

2) COLOR Mode , one output which color of R.G.B. Was controlled by one channel 1.No output for A.

3) RGB Mode , one output which RGB was controlled by 3 DMX channels separately. No output for A

4) RGBA Mode, one output which R.G.B.A was controlled by 4 DMX channels separately.

2.Technical Specifications

Power Input	DC24V
DMX In	3-pin terminal strips
DMX Out	3-pin terminal strips
Output	8 output terminal strips or 8-position Dual RJ45 receptacles, 4x350mA per output
Dimensions	117.6x100x23mm
Weight	0.292kg

3.Physical Dimensions

Side View   Top View   Side View

23   117.6

100   80   91
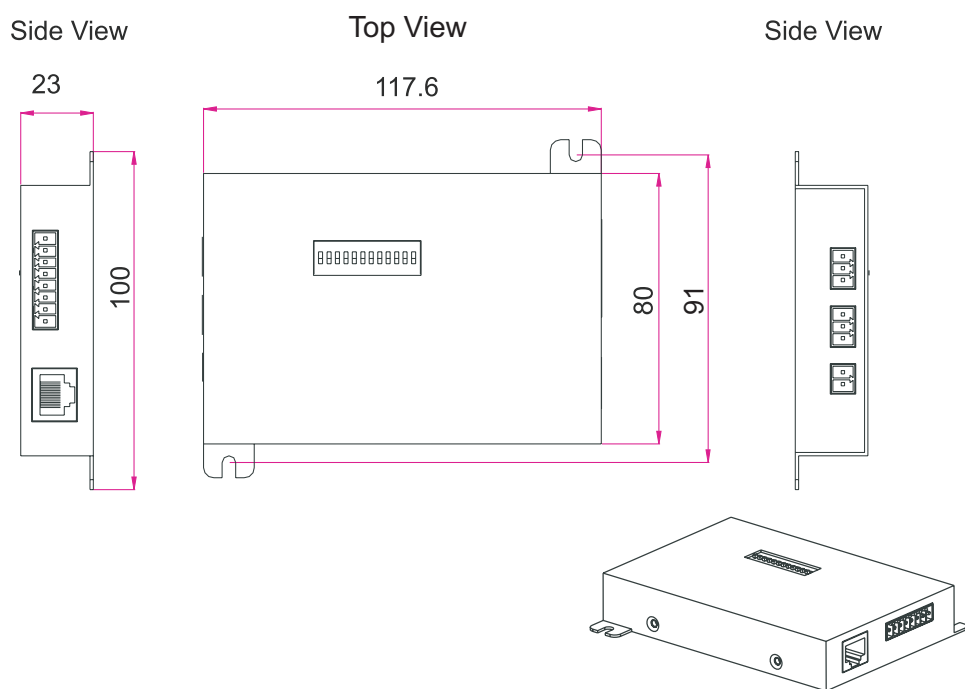
Please Note
Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.