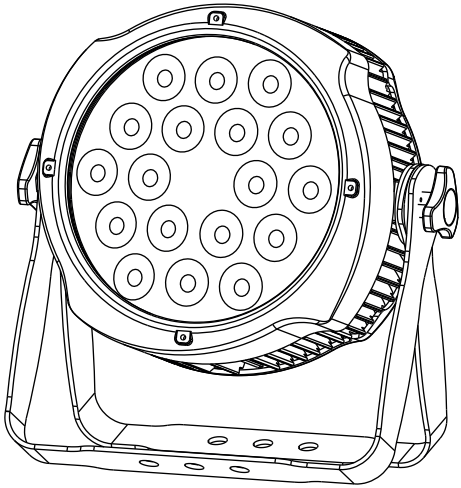
CPX 4180P-II

18X12 WATTS RGBW OUTDOOR LED PAR

CYCLOPS LIGHTING



USER MANUAL

PRODUCT DOCUMENTATION

DMX CHART

www.cyclopslighting.com

Packaging:Thanks for your purchasing the CPX 418OP-II. All the lights have been checked and are in excellent operating condition. Please check the shipping carton first,because there may be damage occurred during the shipment.Then check the lights carefully and be sure that the lights is intact and works normally.In the event damage has been found,spare parts are missing or the lights works abnormally,please contact us for further instructions.And please don't return the lights to the dealer before contacting us.

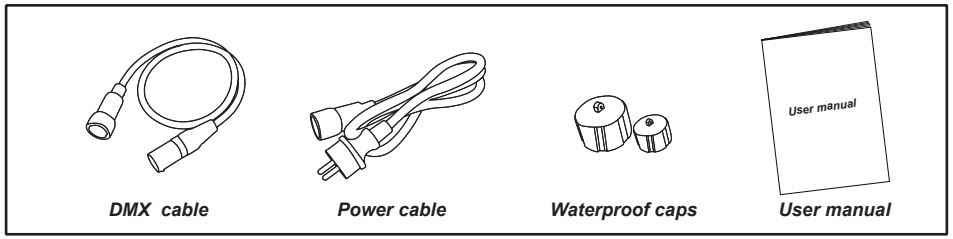
Introduction:The CPX 418OP-II has three operating modes:DMX mode, Auto mode and Master/Slave mode.And the lights has five DMX modes,including channel 3, channel 4, channel 6, channel 8 and channel 11. There are twenty-one built-in Auto programs and you can see twenty-one kinds of shows when you open the Auto mode.Meanwhile, you can edit your desired Auto program in "EDIT"menu.In addition, you can connect several pieces of lights in DMX mode and set one in Auto mode, and the others in Master/Slave mode.And then all the lights in Master/Slave mode will run following the one in Auto mode.Using fog or special effect smoke,you can see better showing effect.

Warning!

1.Don't expose the lights to rain or moisture, for the sake of preventing the risk of electrical shock or fire.

2.Don't look directly at the opening lights all the time, or it may damage your eyes.

UNPACKING AND PREPARATION

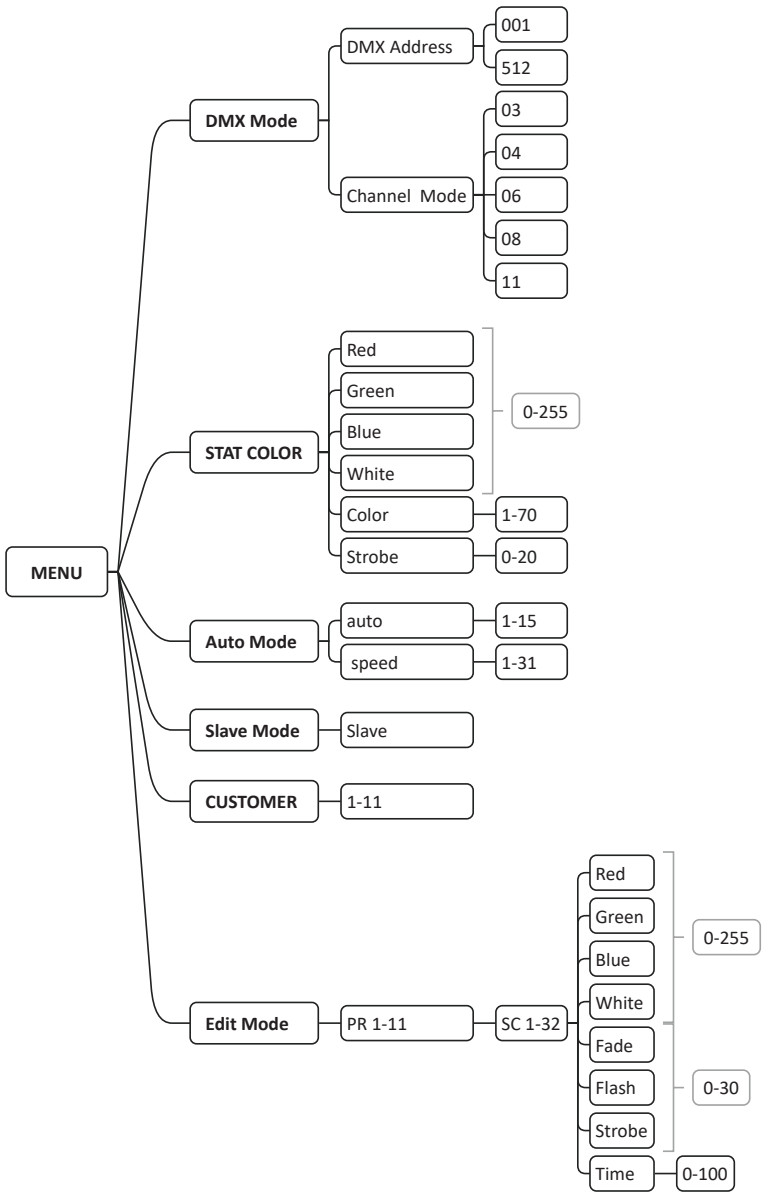


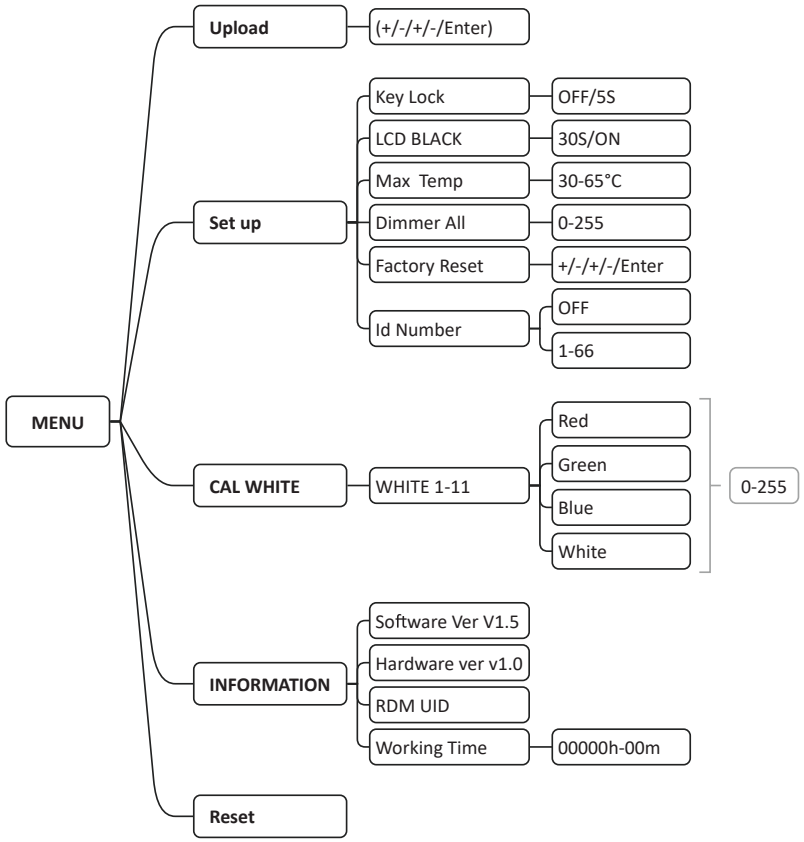
DMX cable ***Power cable*** ***Waterproof caps*** ***User manual***

Features

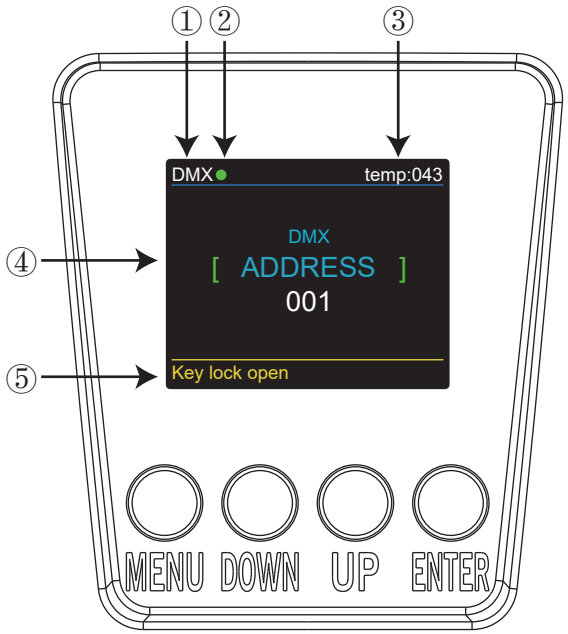
- Light source: 18 x 12 W 4 in 1 RGBW LEDs
- Lamp life expectancy: 50,000 Hrs
- Beam Angle: 25°
- Light Output: 11876 Lux @2m @10°
- Dimmer: 4 different dimming curves
- Color Mixing: Red, Green, Blue& White
- Strobing and Fading effect
- Control Protocols: DMX 512 / Master Slave / Auto Run
- Display : TFT displayer with four buttons
- Mode: 3, 4, 6, 8 & 11 CHS
- Input Voltage Range: 100 - 240 V / 50 - 60 Hz
- Power Consumption: 130 W
- DMX data in/out: Cable 3 pin XLR male, Cable 3 pin XLR female
- Dimensios: 280.32 mm x 142.56 mm x 288.28 mm
- Weight: 5 Kg
- Color: Black
- Housing: Aluminium Body
- IP rating: 65
- Operating Temperature: -20°/50° C

Programme Menu





Displayer introduction



1. DMX means the light is in the DMX mode.Similarly,SLAVE means the light is in the SLAVE mode.

2. The color of the point shows the condition of signal transmission. Green represents the good condition, while red represents the signal is interrupted.

3. The item shows the working temperature of the light.When the working temperature exceeds the max temperature,the color of the letters and number will change from white to yellow.

4. This item shows the menu you selected.

5. This item shows the condition of key lock. “Key lock open” means the key lock is open.And “Key lock off” means the key lock is close.

DMX-In this menu,you can connect several pieces of lights with DMX cable and control them with control console.
1. Press “ENTER” button and then UP or DOWN button until “DMX ” is showed.
2. Press “ENTER” button, and “CHANNEL” or “ADDRESS” will be showed.Then press ENTER.
1) “Channel [xx]” will be showed, “X” represents the showed DMX channel mode. You can press the UP or DOWN button to select your desired Channel mode.
2) “xxx” will be showed, “x” represents the showed address. You can press the UP or DOWN button to select your desired address.

RUN MODE-In this menu, you can select DMX mode or SLAVE mode.In SLAVE mode,you can select one light as the MASTER light and other lights in SLAVE mode will run following the MASTER light.
1. Press “ENTER” button and then UP or DOWN button until “RUN MODE” is showed.
2.Press “ENTER” button, and“DMX” or “SLAVE” will be showed, then press ENTER to select your desired mode.

SET UP-In this menu, you can adjust the value of the function.
1. Press “ENTER” button and then UP or DOWN button until “SET UP” is showed.
2. Press “ENTER” button, and there will be nine options. Then,press ENTER to select the option and press UP or DOWN button to select the value you desire as below.
1) ID number - You can select an ID Number in this menu.Then, you can adjust the value of channel 11 to the corresponding scope and control the light individually with control console.
2) Display Led - In this item,you can select “ON” or “OFF”.If you select ON,the displayer will be on all the time.And if you select OFF,the displayer will extinguish about ten seconds later.
3) Key locks - You can select whether the password is on or off in this menu , and the password is [DOWN] + [UP] + [DOWN] + [UP] .If you select “on”,then you have to input the password before pressing the buttons.Otherwise,the light won’t respond to your order.
4) Max temp - You can set the your desired Max working temperature about the light in this menu.When the working temperature of the light exceeds the Max temperature, the color of letter “Temp xx” showed in the menu will change from white to yellow.Meanwhile, the light will adjust the working temperature automatically.
5) Dimmer RED - You can adjust the red brightness in this menu.
6) Dimmer GREEN - You can adjust the green brightness in this menu.
7) Dimmer BLUE - You can adjust the blue brightness in this menu.
8) Dimmer WHITE - You can adjust the white brightness in this menu.
9) Dimmer ALL - You can adjust the brightness of each color in this menu.

INFORMATION-In this menu, you can learn about the information of software, hardware and the working time of the light.
1. Press “ENTER” button and then UP or DOWN button until “INFORMATION” is showed.
2. Press “ENTER” button, and“Software” “Hardware” or “Fix times” will be showed. Then press ENTER, and you can see three items as below:
1) Software - This item displays the Software information.
2) Hardware - This item displays the Hardware information.
3) Fix times - This item displays the working hours about the light.

AUTO-In this menu, you can select your desire AUTO mode and adjust the running speed.
1. Press “ENTER” button and then UP or DOWN button until “AUTO” is showed.

2. Press “ENTER” button, and“SPEED” or “PROGMA MODE” will be showed. Then press ENTER,and you can see two items as below:
1) SPEED - You can select your desired speed in this menu.
2) AUTO MODE - You can select your desired auto mode in this menu.
CUSTOMER-In this menu,you can select the AUTO program edited in the “EDIT” menu.
1. Press “ENTER” button and then UP or DOWN button until “CUSTOMER” is showed.
2. Press “ENTER” button, and there are 11 pre-programmed mode edited in the “EDIT”menu.

CAL WHITE-In this menu, you can adjust the value of 11 different white color.
1. Press “ENTER” button and then UP or DOWN button until “CAL WHITE” is showed.
2. Press “ENTER” button, and there are 11 pre-programmed White colors that can be edited by adjusting the value of “Red”, “Green”, “Blue”and “White”.

STAT COLOR-In this menu, you can adjust the value of static color and strobe speed as you like.
1. Press “ENTER” button and then UP or DOWN button until “STAT COLOR” is showed.
2. Press “ENTER” button, and there are six options. Then press ENTER to select the option and press UP or DOWN button to select the value you desire as below:
1) STAT RED - You can adjust the red brightness in this menu.
2) STAT GREEN - You can adjust the green brightness in this menu.
3) STAT BLUE - You can adjust the blue brightness in this menu.
4) STAT WHITE - You can adjust the white brightness in this menu.
5) SELET COLOR -You can select 52 static color in this menu.
6) STAT STROB - You can adjust the strobe speed in this menu.

EDIT-In this menu, you can edit your desired AUTO program.
1. Press “ENTER” button and then UP or DOWN button until “EDIT” is showed.
2. Press “ENTER” button, and open the “EDIT” mode to edit the custom programs from“PR.01” to “PR.11”.And there are 32 scenes that can be edited in each custom program.
3. You can edit a scene by adjusting the value of “RED (0~255)”, “GREEN (0~255)”, “BLUE (0~255)”, “WHITE (0~255)”, “FADE (0~31)”, “FLASH(0~50)”, “STROBE (0~31)” & “TIME (0~100)” as you like . Then the data will be saved, when you press the ENTER button for 5 seconds.

UPLOAD-In this menu,you can connect several pieces of lights with MAX cables and set one light as the MASTER and others in SLAVE mode.Then upload the custom program in the MASTER light to the lights in SLAVE mode.
1. Press “ENTER” button and then UP or DOWN button until “UPLOAD” is showed.
2. Press “ENTER” button to upload the custom programs from the MASTER light to theSLAVE ones.

RESET-In this menu, you can reset all the value of the system.
1. Press “ENTER” button and then UP or DOWN button until “RESET” is showed.
2. Press the ENTER button to reset all the value of the system.

DMX control mode

MODE 3 CHANNELS		
Channel	Value	Function
1	000 - 255	Hue
2	000 - 255	Saturation
3	000 - 255	Dimmer

MODE 4 CHANNELS		
Channel	Value	Function
1	000 - 255	Red
2	000 - 255	Green
3	000 - 255	Blue
4	000 - 255	White

MODE 6 CHANNELS		
Channel	Value	Function
1	000 - 255	Master Dimmer
2	000 - 255	Red
3	000 - 255	Green
4	000 - 255	Blue
5	000 - 255	White
6	000 - 049	Default Dimmer
	050 - 099	Dimmer Speed 1
	100 - 149	Dimmer Speed 2
	150 - 199	Dimmer Speed 3
	200 - 255	Dimmer Speed 4

MODE 8 CHANNELS		
Channel	Value	Function
1	000 - 255	Master Dimmer
2	000 - 255	Red
3	000 - 255	Green
4	000 - 255	Blue
5	000 - 255	White
6	000 - 255	Color Macro
7	000 - 255	0 = Off , 1 --> 255 = Different Colors Macros
8	000 - 255	Strobe(0-20Hz)

MODE 11 CHANNELS		
Channel	Value	Function
1	000 - 255	Master Dimmer
2	000 - 255	Red
3	000 - 255	Green
4	000 - 255	Blue
5	000 - 255	White
6	000-010	Default
	011-200	Index
	201-205	White 1
	206-210	White 2
	211-215	White 3
	216-220	White 4
	221-225	White 5
	225-230	White 6
	231-235	White 7
	236-240	White 8
	241-245	White 9
	246-250	White 10
	251-255	White 11
7	000 - 255	Strobe
8	000 - 255	Auto Program
9	000 - 255	Auto Speed
10	000 - 255	Dimmer Speed
11	000 - 255	ID Address Set

DMX SHEET

Auto sheet		
value		Auto Program
0	7	Default
8	10	Program 1
11	20	Program 2
21	30	Program 3
31	40	Program 4
41	50	Program 5
51	60	Program 6
61	70	Program 7
71	80	Program 8
81	90	Program 9
91	100	Custom 1
101	110	Custom 2
111	120	Custom 3
121	130	Custom 4
131	140	Custom 5
141	150	Custom 6
151	160	Custom 7
161	170	Custom 8
171	180	Custom 9
181	190	Custom 10
200	255	Custom 11

Color sheet		
value		Color Macro
0	19	None
20	23	color1
24	27	color2
28	31	color3
32	35	color4
36	39	color5
40	43	color6
44	47	color7
48	51	color8
52	55	color9
56	59	color10
60	63	color11
64	67	color12
68	71	color13
72	75	color14
76	79	color15
80	83	color16
84	87	color17
88	91	color18
92	95	color19
96	99	color20
100	103	color21
104	107	color22
108	111	color23
112	115	color24
116	119	color25
120	123	color26

124	127	color27
128	131	color28
132	135	color29
136	139	color30
140	143	color31
144	147	color32
148	151	color33
152	155	color34
156	159	color35
160	163	color36
164	167	color37
168	171	color38
172	175	color39
176	179	color40
180	183	color41
184	187	color42
188	191	color43
192	195	color44
196	199	color45
200	203	color46
204	207	color47
208	211	color48
212	215	color49
216	219	color50
220	223	color51
224	255	color52

Different Colors sheet		
value		Different Colors Macros
0	6	None
7	13	color1
14	20	color2
21	27	color3
28	34	color4
35	41	color5
42	48	color6
49	55	color7
56	62	color8
63	69	color9
70	76	color10
77	83	color11
84	90	color12
91	97	color13
98	104	color14
105	111	color15
112	118	color16
119	125	color17
126	132	color18
133	139	color19
140	146	color20
147	153	color21
154	160	color22
161	167	color23
168	174	color24
175	181	color25
182	188	color26
189	195	color27
196	202	color28
203	209	color29
210	216	color30
217	223	color31
224	230	color32
231	237	color33
238	244	color34
245	255	color35

RDM---Remote Device Management

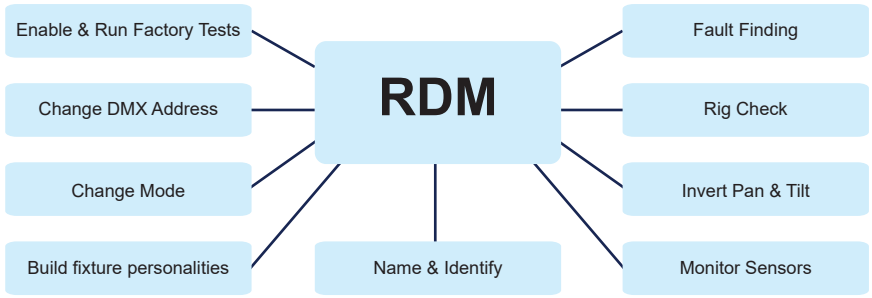
RDM is a wild version of the DMX512-A protocol, allowing dimming stations and other control devices to be discovered through a DMX512 network, and then configuring, status monitoring, and managing intermediate and line end devices.

It allows two-way communication between the lighting device or system controller and the connected RDM compatible device through the standard DMX. This protocol will allow these devices to be configured, monitored, and managed in a manner that does not interfere with the normal operation of standard DMX512 devices that do not recognize the RDM protocol.
Allow a controller or test device to find other devices that can be RDM, such as computer lights or dimming cabinets, and remotely manage them through this connection intelligence. Including the ability to remotely set the initial address of the DMX512, query the device's errors or statistics, and achieve most of the configuration settings that are usually done on the front panel of the device. RDM can run with the new RDM device or any original DMX512 product on the same data link without any performance impact. Since RDM runs on the first team DMX512 link, the only infrastructure upgrade required by RDM is to upgrade the existing data distributor to implement a two-way mode to support RDM.

The RDM information is transmitted through the first pair of DMX512 data channels. RDM uses packets that include non-zero initial codes to start and control communications. This alternating(rotating) session and waiting for indicative responses is performed in a semi-duplex format. The second data pair is not used for any RDM function.

Two-way data transmission-each vendor's equipment can exchange data, Art-net can only transmit data, can not exchange with each other.

Its functions are as followed:



RDM compliance:ANSI/ESTA E.120

Parameter ID	Command 'Discovery'	Command 'Set'	Command 'Get'
DISC_UNIQUE_BRANCH	√		
DISC_MUTE	√		
DISC_UN_MUTE	√		
DEVICE_INFO			√
SUPPORTED_PARAMETERS			√
SOFTWARE_VERSION_LABEL			√
DMX_START_ADDRESS		√	√
IDENTIFY_DEVICE		√	√
DEVICE_MODEL_DESCRIPTION			√
PARAMETER_DESCRIPTION			√
MANUFACTURER_LABEL			√
DEVICE_LABEL		√	√
FACTORY_DEFAULTS		√	√
BOOT_SOFTWARE_VERSION_ID			√
BOOT_SOFTWARE_VERSION_LABEL			√
DMX_PERSONALITY		√	√
DMX_PERSONALITY_DESCRIPTION			√
SLOT_INFO			√
SLOT_DESCRIPTION			√
SENSOR_DEFINITION			√
SENSOR_VALUE			√
DEVICE_HOURS			√
LAMP_HOURS			√
RESET_DEVICE		√	
DIMMER CURVE		√	√
DMX STATE		√	√
DIMMER SPEED		√	√

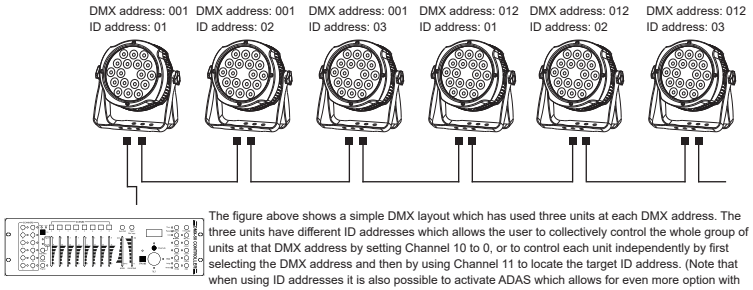
Channel 11 (Id address set)

0--9	all Ids	170--179	Id17	223	Id34	240	Id51
10--19	Id1	180--189	Id18	224	Id35	241	Id52
20--29	Id2	190--199	Id19	225	Id36	242	Id53
30--39	Id3	200--209	Id20	226	Id37	243	Id54
40--49	Id4	210	Id21	227	Id38	244	Id55
50--59	Id5	211	Id22	228	Id39	245	Id56
60--69	Id6	212	Id23	229	Id40	246	Id57
70--79	Id7	213	Id24	230	Id41	247	Id58
80--89	Id8	214	Id25	231	Id42	248	Id59
90--99	Id9	215	Id26	232	Id43	249	Id60
100--109	Id10	216	Id27	233	Id44	250	Id61
110--119	Id11	217	Id28	234	Id45	251	Id62
120--129	Id12	218	Id29	235	Id46	252	Id63
130--139	Id13	219	Id30	236	Id47	253	Id64
140--149	Id14	220	Id31	237	Id48	254	Id65
150--159	Id15	221	Id32	238	Id49	255	Id66
160--169	Id16	222	Id33	239	Id50		

DMX-512 addressing with ID address

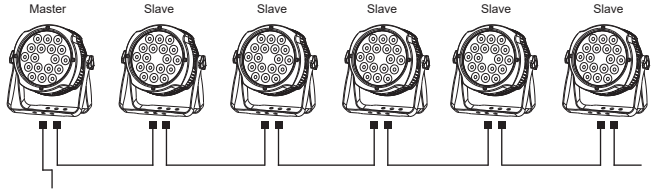
1. Follow instructions 1 for DMX 512 addressing.

2. Activate ID addressing in each fixture by setting panel function “ID ON/OFF” to ON. “Settings” to “ID ON/OFF” to “ON” For every DMX 512 starting address the user can set 66 separate ID addresses. Set ID addresses in each fixture by setting panel function “ ID address” to incremental values.(I.e. 1, 12, 24, 36 etc...) “Settings” to “address” to “01~66”.



The figure above shows a simple DMX layout which has used three units at each DMX address. The three units have different ID addresses which allows the user to collectively control the whole group of units at that DMX address by setting Channel 10 to 0, or to control each unit independently by first selecting the DMX address and then by using Channel 11 to locate the target ID address. (Note that when using ID addresses it is also possible to activate ADAS which allows for even more option with DMX addressing and control.

UPLOAD



First,set one light, which involves the program you have edited in EDIT menu and want to upload, in Master mode,and others in Slave mode.

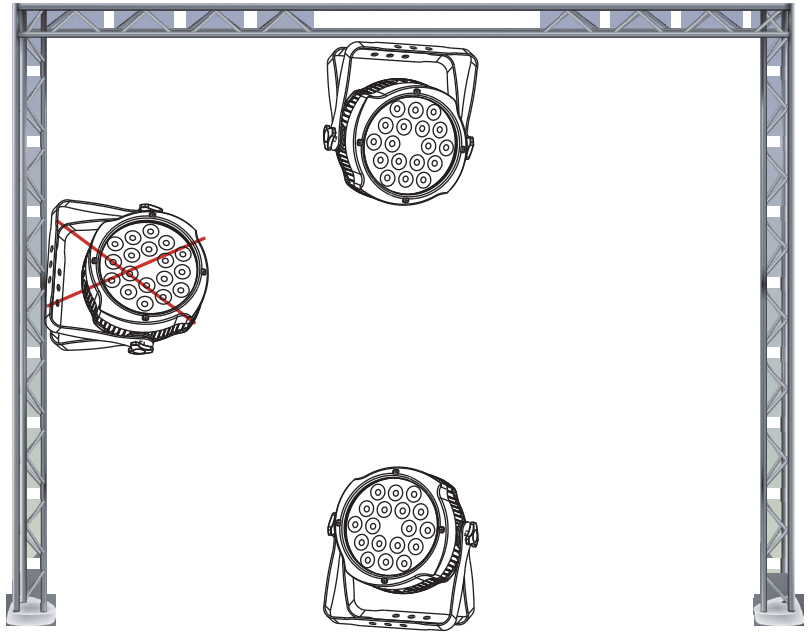
Then,connect all the lights with DMX cables.Finally,select the UPLOAD menu of the Master light and press ENTER.All the programs edited in the Master light will be uploaded to the Slave lights.

Mounting

When installing the unit, the trussing or area of installation must be able to hold 10 times the weight without any deformation. When installing the unit must be secured with a secondary safety attach-ment, e.g. and appropriate safety cable. Never stand directly below the unit when mounting, removing, or servicing the unit.

Overhead mounting requires extensive experience, including calculat-ing working load limits, installation material being used, and perodic safety inspection of all installation material and unit. If you lack these qualifcations, do not attempt the installation yourself.

The installaiton should be checked by a skilled person once a year.

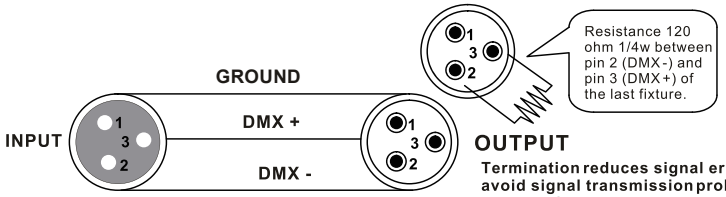


The CPX 418OP-II is fully operational in two different mounting positions, hanging upside-down from a ceiling or set on a flat level surface. To avoid internal damage to the unit, never mount the unit on its side as illustrated above. Be sure this fxture is kept at least 0.5m away from any flammable materials (decoration etc.). And you'd better use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails (see next page).

CABLE CONNECTORS

Cabling must have a male XLR connector on one end and a female XLR connector on the other end.

DMX connector configuration



caution:Do not allow contact between the ground and the fixture's chassis ground. Grounding the ground can cause a ground loop, and your fixture may perform erratically. Test cables with an ohm meter to verify positive pole and to make sure the pins are not grounded or shorted to the shield or each other.

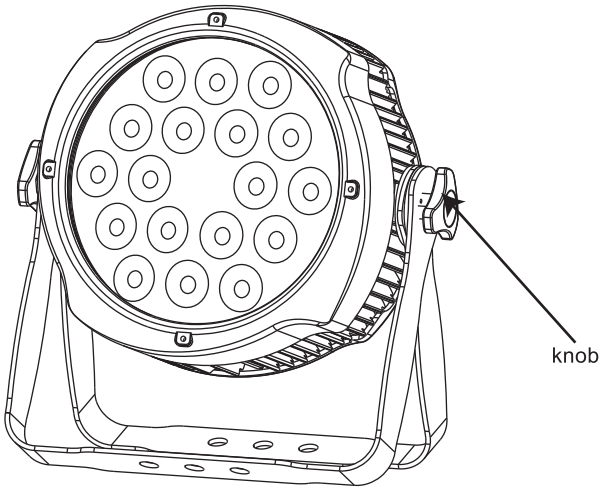
3-PIN TO 5-PIN CONVERSION CHART

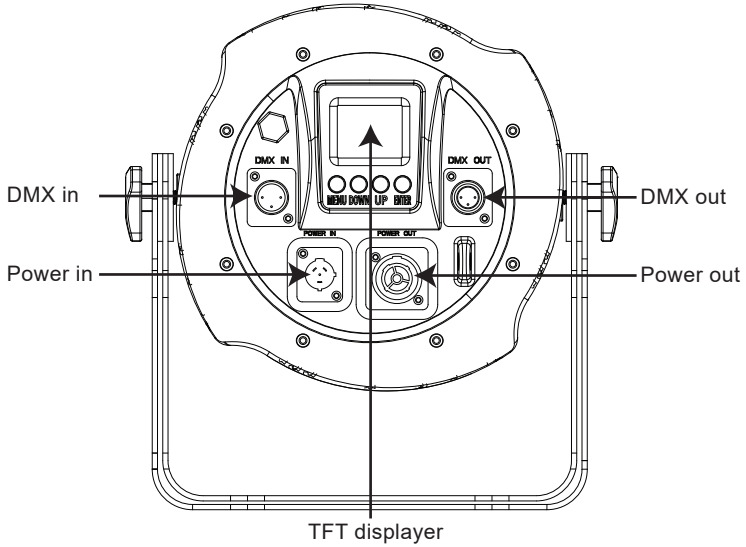
Note! If you use a controller with a 5 pin DMX output connector, you need to use a 5 pin to 3 pin adapter. The chart below details a proper cable conversion:

3-PIN TO 5-PIN CONVERSION CHART

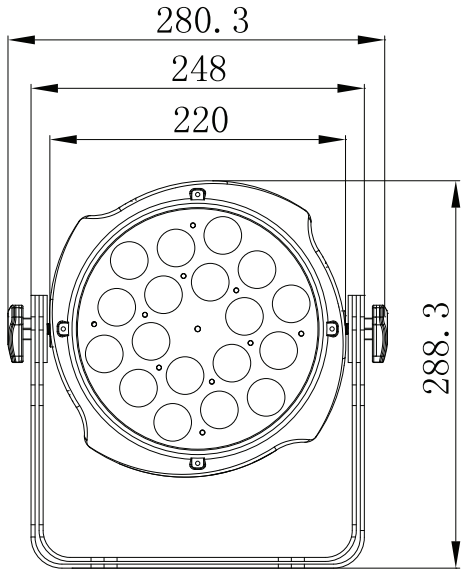
Conductor	3 Pin Female (output)	5 Pin Male (Input)
Ground/Shield	Pin 1	Pin 1
Data (-) signal	Pin 2	Pin 2
Data (+) signal	Pin 3	Pin 3
Do not use		Do not use
Do not use		Do not use

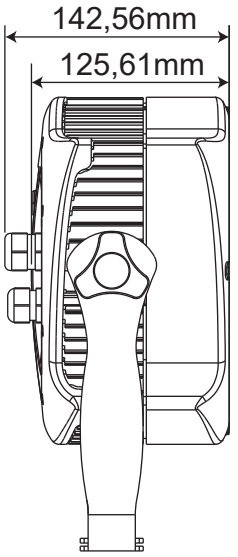
Mechanical Specification





Product Overview







CYCLOPS LIGHTING

Cyclops Lighting creates professional lighting fixtures for **lighting professionals**. Our extensive product catalog covers every lighting application, from small to big, from simple to complex. We focus on maximizing value for our users, ensuring superior **performance**, complete **documentation** and expert **worldwide support**.

www.cyclopslighting.com