

PR-8206

This product manual contains important information about the safe installation and use of this projector. Please read and follow these instructions carefully and keep this manual in a safe place for future reference.

PR LIGHTING LTD.
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INDEX

SAFE USAGE OF THE PROJECTOR	3
INSTALLING THE PROJECTOR	4
CONTROL SYSTEM AND POWER CONNECTIONS	4
DMX TERMINATOR	5
SETUP OPTIONS-PROJECTOR CONFIGURATION	5
TO SET THE DMX START ADDRESS	6
OPERATION MENU	7
DMX PROTOCOL	8
INDICATION OF LED DISPLAY	9
MAINTENANCE	9
TROUBLESHOOTING	9
TECHNICAL DATA	10
ELECTRICAL DIAGRAM	13
COMPONENT ORDER CODES	14

Please note that as part of our ongoing commitment to continuous product development, specifications are subject to change without notice. Whilst every care is taken in the preparation of this manual we reserve the right to change specifications in the course of product improvement. The publishers cannot be held responsible for the accuracy of the information herein, or any consequence arising from them.

Every unit is tested completely and packed properly by the manufacturer. Please make sure the packing and / or the units are in good condition before installation and use. Should there be any damage caused by transportation, consult your dealer and do not use the unit. Any damage caused by improper use will not be assumed by the manufacturer and / or dealer.

ACCESSORIES

These items are packed together with the projector:

Name	Quantity	Unit	Remark
Barn door	1	Pc	
Shading barrel	1	Pc	Optional
Safety cord	1	Pc	
This manual	1	Pc	
Signal cable	1	Pc	Optional
Signal cable	1	Pc	Optional
Power cord	1	Pc	Optional

SAFE USAGE OF THE PROJECTOR

When unpacking and before disposing of the carton, check there is no transportation damage before using the projector. Should there be any damage caused by transportation, consult your dealer and do not use the apparatus.

The projector can be used indoors and outdoors, IP67.

The projector is not designed or intended to be mounted directly on to inflammable surfaces. 

The projector is only intended for installation, operation and maintenance by qualified personnel.

Do not project the beam onto inflammable surfaces, minimum distance is 5m. ◁ 5m ∈

Avoid direct exposure to the light from the lamp. The light is harmful to eyes.

Do not attempt to dismantle and/or modify the projector in any way.

Electrical connection must only be carried out by qualified personnel.

Before installation, ensure that the voltage and frequency of power supply match the power requirements of the projector.

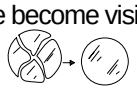
It is essential that each projector is correctly earthed and that electrical installation conforms to all relevant standards.

Do not connect this device to any other types of dimmer apparatus.

Make sure that the power-cord is never crimped or damaged by sharp edges. Never let the power-cord come into contact with other cables. Only handle the power-cord by the plug. Never pull out the plug by tugging the power-cord.

Keep the optical system clean. Do not touch the LED lens with bare hands.

When the projector is hanged to a high place, please use a safety cord provided to pass through the projector handles as a secondary safety fixing for safety seasons. For details, refer to “INSTALL THE PROJECTOR “section.

LED lens shall be changed if they have become visibly damaged to such an extent that their effectiveness is impaired, for example by cracks or deep scratches. 

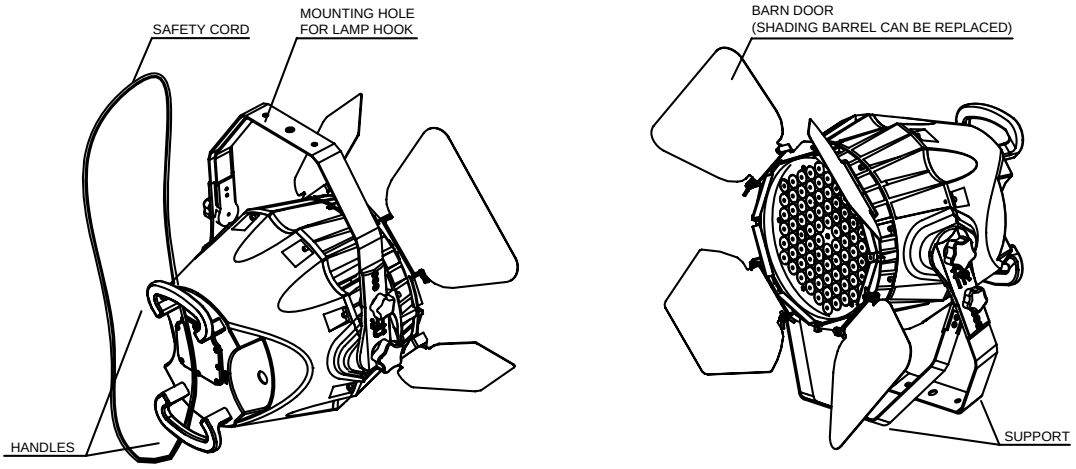
Exterior surface temperatures of the projector after 5 minutes operation is 55℃, when achieving steady state it is 60℃.

There is no user serviceable parts inside the projector, do not open the housing and never operate the projector with the covers removed.

Always disconnect from the mains, when the device is not in use or before cleaning it or before attempting any maintenance work !

If you have any questions, don’t hesitate to consult your dealer or manufacturer.

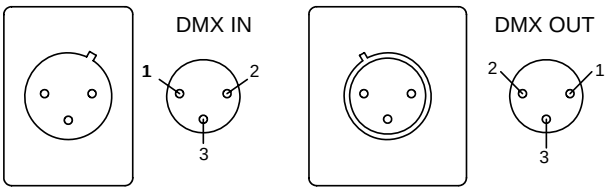
INSTALL THE PROJECTOR



When the projector is used, as the left figure above, unfold the support to certain angle and put the projector onto a flat surface. Make sure it is steady.

When the projector is used at a high place, as the right figure above, fold the support, turn it round to the top of the projector, connect a lamp hook to the mounting hole reserved in the support by screws, and then hang the hook to a high place. Eventually, use the safety cord provided to pass through the handles and hang it as a second safety fixing.

CONTROL SYSTEM AND POWER CONNECTION

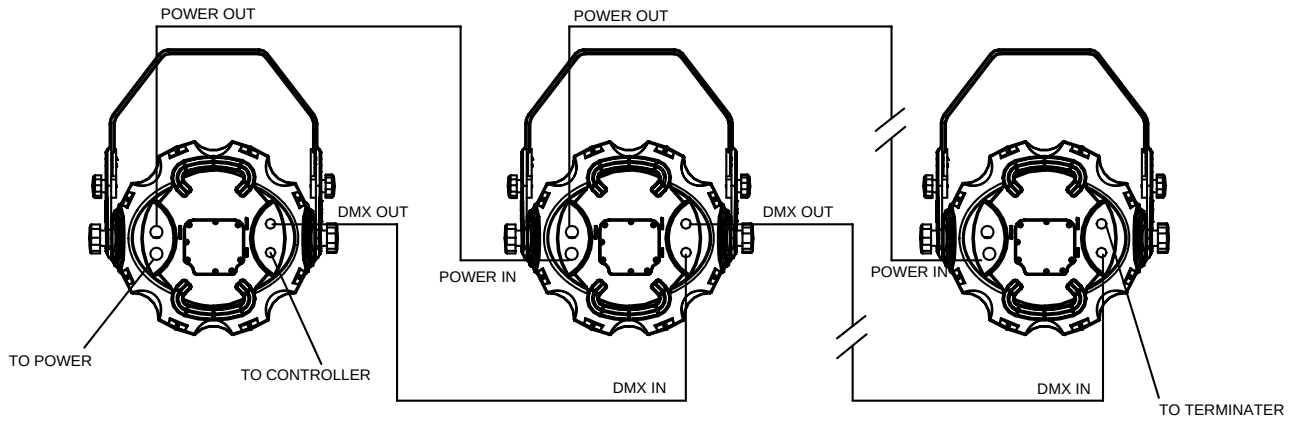


DMX512	
PIN	FUNCTION
1	GND
2	DATA -
3	DATA +

Connection between the controller and a projector and between one projector and another must be made with a 2 core-screened cable, with each core having at least a 0.5mm diameter. Please use the projector's cannon 3- pin signal input and output cables as connection. The 3-pin signal connections are connected as shown in the figure above.
Note: Care should be taken to ensure that none of the pins touch the metallic body of the plug or each other. The body of the plug is not connected in any way. The product accepts digital control signals in protocol DMX512 (1990).

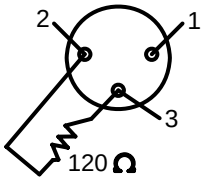
The amount of projectors connected in parallel is not more than 32. Connect the controller's output to the first fixture's input cable with a 3-pin signal cable, connect the first fixture's output cable to the second fixture's input cable and connect the rest fixtures in the same way. Eventually, connect the last fixture's output cable to a DMX terminator. Note: Only when all the start addresses of fixtures are set the same, synchronous control could be achieved.
When the first fixture is not connected to the controller, and all the other connections are the same as above, it is master / slave mode connection. To achieve master / slave mode, set the first fixture master, the others salve(slave is default).

As for power connections, each projector has to be supplied separately by external power. Use the power cord of each projector to connect the mains power directly, paying attention to the voltage and frequency marked on the panel of the projector.
Use the power cord of the first projector's power in cable connect to the mains power directly, then connect the first fixture's power out cable to the second fixture's power in cable and connect the rest fixtures in the same way. Eventually, all fixture connect finished. When using voltage is 200V, 220V, 230V, 240V, the amount of projectors connected is not more than 8. Paying attention to the voltage and frequency marked on the panel of the projector.
All of the connections are as the figure below.



DMX TERMINATOR

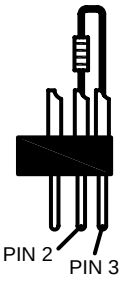
In the Controller mode, at the last fixture in the chain, the DMX output has to be connected with a DMX terminator. This prevents electrical noise from disturbing and corrupting the DMX control signals.
The DMX terminator is simply an XLR connector with a 120Ω (ohm) resistor connected across pins 2 and 3, which is then plugged into the output socket on the last projector in the chain. The connections are illustrated below.



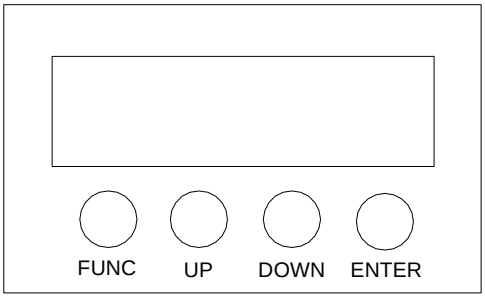
DMX TERMINATOR

CONNECTION

Connect a 120Ω(OHM) resistor across pins 2 and 3 in an XLR plug and insert into the DMX out socket on the last unit in the chain.



SETUP OPTIONS-PROJECTOR CONFIGURATION



Projector configuration can be set conveniently via push-button switch and LED display.
Launch the projector and press button ENTER for more than 5 seconds to unlock the panel, the LCD will show the function menu of the projector, each main menu has its submenus and each submenu has a specific function. For details, please see the “OPERATION MENU” section.
Press button UP or DOWN if you want to browse through the various Setup Options. Press button ENTER to save your settings or enter the next menu. Press button UP or DOWN to shift.
Press button FUNC, it will return to the upper menu one by one or browse through the main menu.

TO SET THE DMX START ADDRESS

Each product must be given a DMX start address so that the correct projector responds to the correct control signals. This DMX start address is the channel number from which the projector starts to “listen” to the digital control information being sent out from the controller. PR-8206 have 2 DMX modes, which are standard mode, extended mode. For example, the standard mode has 4 channels, so set the No. 1 projector’s address 001, No. 2 projector’s address 005, No. 3 projector’s address 009, No. 4 projector’s address 013, and so on.

Launch the projector. Press button ENTER for more than 5 seconds to unlock the panel.

Press button FUNC, UP or DOWN to find “AddR” menu.

Then press ENTER to show DMX address and press UP or DOWN to set DMX address.

At this time, the address will flash continuously. Press button ENTER to confirm and it means the setting has been enabled.

Press button FUNC, it will return to the upper menu one by one.

OPERATION MENU

1st LEVEL	2nd LEVEL	3rd LEVEL	4th LEVEL
AddR (DMX address)	XXX （XXX:1~512）		
CNFG (Config settings)	dmX (DMX mode) (Default: STd)	STd (Standard mode)	
		EXT (Extended mode)	
	dISP (Display settings) (Default: ON)	ON	
		OFF (Shut off digital CRT without pressing buttons in 5 minutes)	
	mORS (Master /Slave Settings) (Default: SLAVE)	SLAV (Slave)	
		mAST (Master)	
	FACT (Reset factory setup)	yES	
	TRmd (Transmit parameters) [1]	yES	
INFO (Information)	TImE (Fixture usage time)	XXXX	
	TEmP (LED board temperature)	XX	
	VER (Version)	X.X.X	
TEST	A (Amber)		
	w (white)		
	Aw (Amber/white)		
mENU (Operation mode)	dmx (DMX mode)		
	PR 01 (Preset memory, PR01)		
	PR 01 (Preset memory, PR02)		

Note:

[1]. Parameters can be transmitted from the master projector to the slave projectors in the following conditions, such as display setting status, operation mode and DMX channel mode.

DMX PROTOCOL

Standard mode	Extended mode	FUNCTION	DMX	DESCRIPTION
1	1	Dimmer	000-255	Dimming from dark to light
	2	Dimmer Fine	000-255	Dimmer in 16 Bit precision
2	3	White	000-255	Linear adjust from dark to light
	4	White Fine	000-255	White in 16 Bit precision
3	5	Amber	000-255	Linear adjust from dark to light
	6	Amber Fine	000-255	Amber in 16 Bit precision
4	7	Strobe	000	No effect
			001-255	Strobe speed from slow to fast

INDICATION OF LED DISPLAY

Decimal point of the first character	On	DMX signal OK
	Off	No DMX signal
Decimal point of the third character	On	Master / slave signal is OK
	Off	No master / slave signal
Decimal point of the fourth character	On	When setting master mode
	Off	When setting slave mode
Parameters that LED digital tubes display	Flash	Parameters not saved, press “ENTER” to save them

MAINTENANCE

To prolong the life of the projector, it is very important to do the maintenance work. The environment is hash outdoors, or if the projector is idle for a long time, damp, smoke or particularly dirty surroundings can cause greater accumulation of dirt on its cover and housing. So it should be cleaned to maintain an optimum light output and at the same time to prevent it from corrupted by acid gas.

Cleaning frequency depends on the environment in which the fixture operates. Soft cloth and typical glass cleaning products should be used for cleaning. It is recommended to clean projector at least once every 20 days.

Do not use any organic solvent, e.g. alcohol, to clean housing of the apparatus.

TROUBLESHOOTING

PROBLEM	ACTION
The projector doesn’t switch on	➢ Power connection is not correct. ➢ Power supply is damaged or abnormal. Call a qualified personnel to fix it. ➢ Connection of control board is not correct. Call a qualified personnel to fix it.
The projector can be turned on, but LEDs do not emit light and are out of control.	➢ Connection of LED board is not correct. Call a qualified personnel to fix it.
The lamp comes on but the projector doesn’t respond to the controller	➢ Make sure that the projector is correctly configurated. ➢ Replace or repair the DMX cable.
The beam appears dim	➢ The projector is too hot. Take ventilation measures to make it cool.

TECHNICAL DATA

VOLTAGES:

200V/220V /230V/240V AC, 50/60Hz

POWER CONSUMPTION:

280W@220V

LED:

Power consumption	3W
Quantity	66（white）, 24(amber)
Manufacturers Rated LED Life	50000 hours

COLOURS:

White+ amber

DIMMER:

0-100% linearly adjustable

STROBE:

0.3~20F.P.S

LENS ANGLE:

14°(Optional: 8°, 45°)

BEAM ANGLE:

32°(Optional: 24°, 55°)

CONTROL:

DMX512, 3 pin interfaces
4 channels in standard mode, and 7channels in extended mode
Master /Slave mode
2 preset memories
Self-test mode

OTHER FUNCTIONS:

LED board temperature display
Fixture usage time display
DMX mode, display setting status, operation mode can be transmitted by synchronous control

HOUSING:

High-intensity die-casting aluminum, IP67

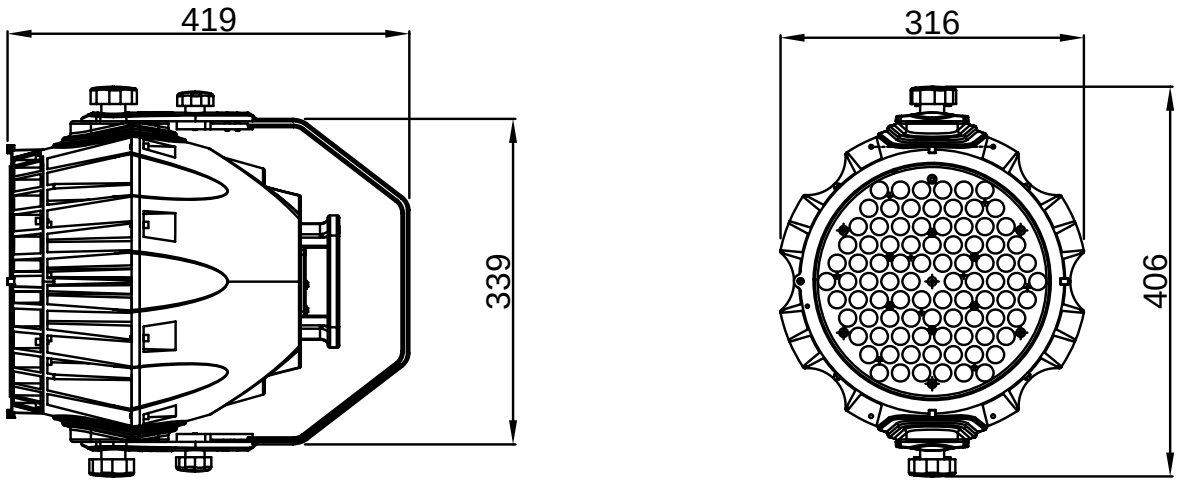
WORK ENVIRONMENT TEMPERATURE:

-20°C~40°C

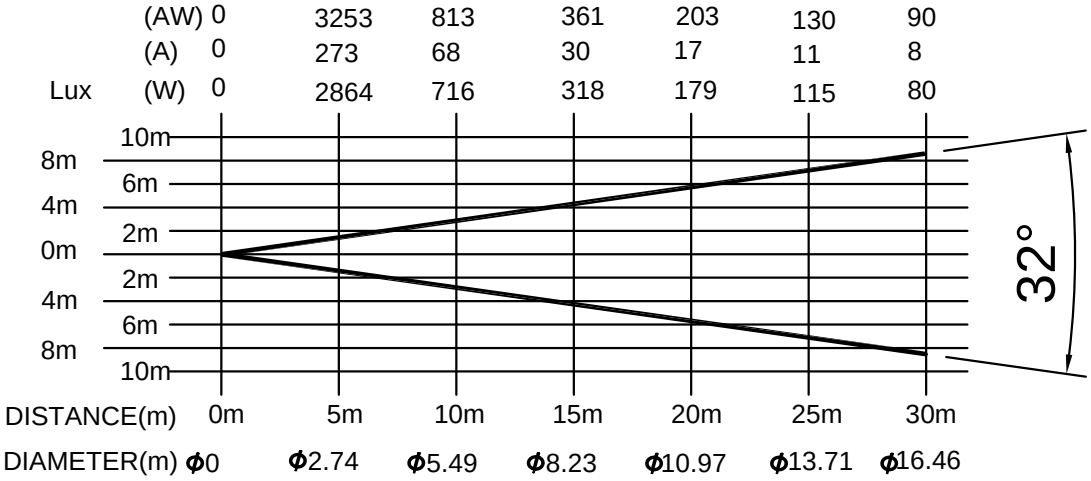
WEIGHT:

14kg

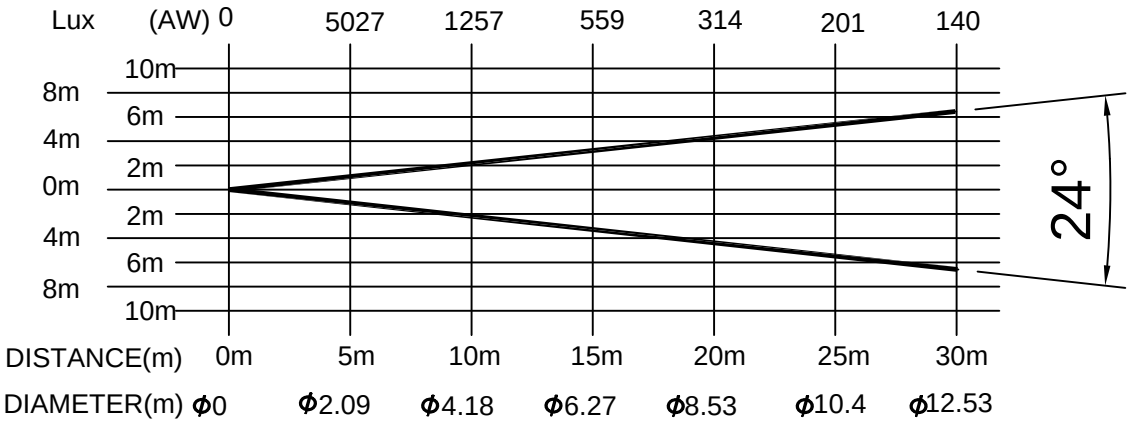
SIZES:



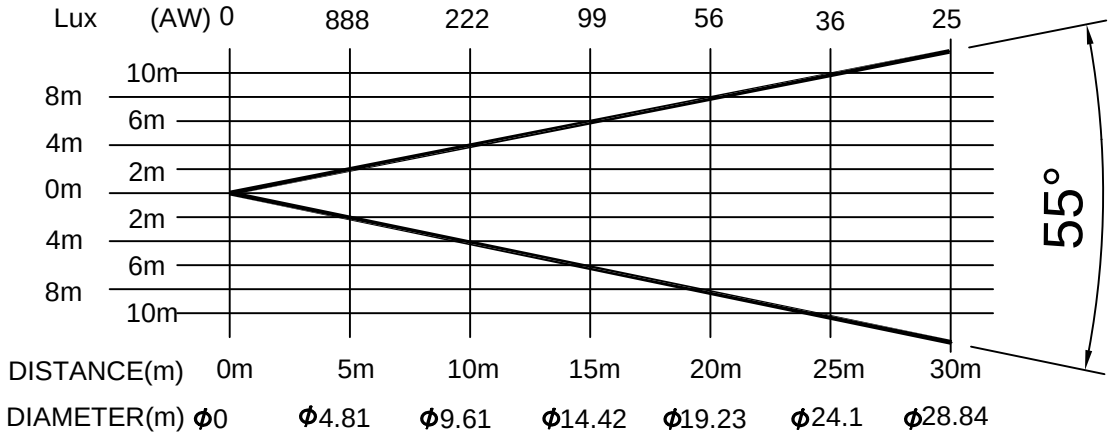
LIGHT OUTPUT:

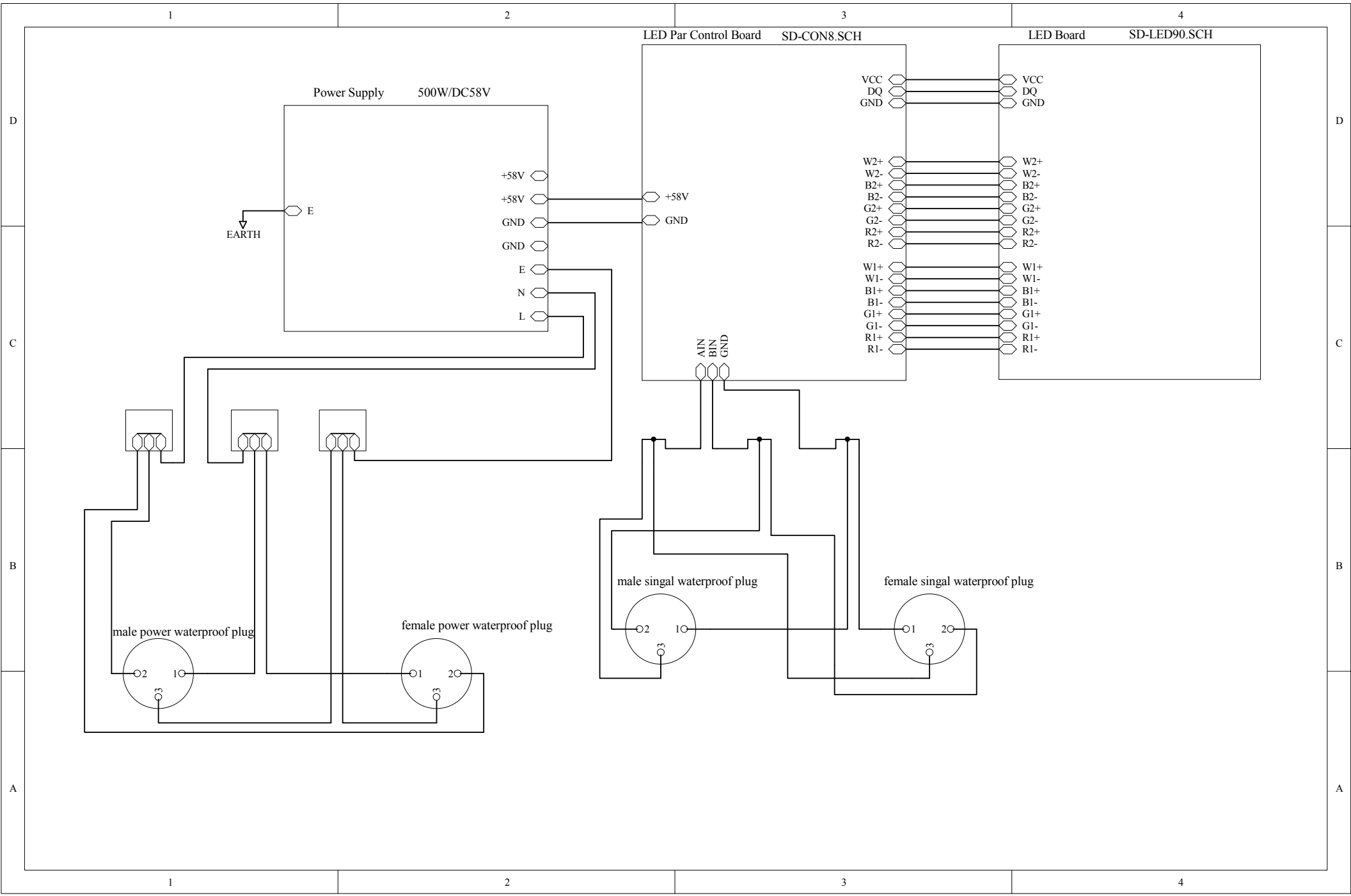


LIGHT OUTPUT (OPTIONAL LENS 8°)



LIGHT OUTPUT (OPTIONAL LENS 45°) :




LED Par Control Board SD-CON8.SCH
LED Board SD-LED90.SCH
Power Supply 500W/DC58V
+58V
+58V
GND
GND
E
N
L
E
EARTH
AIN
BIN
GND
VCC
DQ
GND
W2+
W2-
B2+
B2-
G2+
G2-
R2+
R2-
W1+
W1-
B1+
B1-
G1+
G1-
R1+
R1-
male power waterproof plug
female power waterproof plug
male singal waterproof plug
female singal waterproof plug

COMPONENT ORDER CODES

NAME	PART NO.	QUANTITY	REMARK
LED LENS	070070040	90	14°
LED LENS	070070015	90	8°(Optional)
LED LENS	070070041	90	45°(Optional)
SIGNAL CABLE	120080030B	1	1.7m,male
SIGNAL CABLE	120080031B	1	1.7m,female
SIGNAL CABLE	120080032	1	0.3,male
SIGNAL CABLE	120080033	1	0.3,female
POWER CORD	120080035A	1	1.7m,female
POWER CORD	120080034B	1	1.7m,male
POWER CORD	120080040A	1	1.7m,female
POWER SUPPLY	192010138	1	
LED CONTROL BOARD	230020274	1	
LED BOARD	230020270	1	
LENS' TOP COVER	290080017	1	

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