

IP2202 SMARTPAR 2202P



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CE F IP65 t_a 40°C t_c 100°C

User Manual

KEEP THIS MANUAL FOR FUTURE NEEDS

1 SAFETY INSTRUCTIONS



CAUTION

Be careful with your operations. With a dangerous voltage you can suffer a dangerous electric shock when touching wires!

This device has left the factory in perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this user manual.



IMPORTANT

Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.

If the device has been exposed to temperature changes due to environmental changes, do not switch it on immediately. The arising condensation could damage the device. Leave the device switched off until it has reached room temperature.

This device falls under protection-class I. Therefore it is essential that the device be earthed.

The electric connection must carry out by qualified person.

The device shall only be used with rated voltage and frequency.

Make sure that the available voltage is not higher than stated at the end of this manual.

Make sure the power cord is never crimped or damaged by sharp edges. If this would be the case, replacement of the cable must be done by an authorized dealer.

Always disconnect from the mains, when the device is not in use or before cleaning it. Only handle the power cord by the plug. Never pull out the plug by tugging the power cord.

During initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective, it should decrease gradually.

Please don't project the beam onto combustible substances.

Fixtures cannot be installed on combustible substances, keep more than 50cm distance with wall for smooth air flow, so there should be no shelter for fans and ventilation for heat radiation.

If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid a hazard.

8 MAINTENANCE AND CLEANING

The following points have to be considered during the inspection:

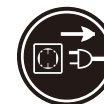
- 1) All screws for installing the devices or parts of the device have to be tightly connected and must not be corroded.
- 2) There must not be any deformations on the housing, color lenses, fixations and installation spots (ceiling, suspension, trussing).
- 3) Mechanically moved parts must not show any traces of wearing and must not rotate with unbalances.
- 4) The electric power supply cables must not show any damage, material fatigue or sediments.

Further instructions depending on the installation spot and usage have to be adhered by a skilled installer and any safety problems have to be removed.



CAUTION

Disconnect from mains before starting maintenance operation.



In order to make the lights in good condition and extend the life time, we suggest a regular cleaning to the lights.

- 1) Clean the inside and outside lens each week to avoid the weakness of the lights due to accumulation of dust.
- 2) Clean the fan each week.
- 3) A detailed electric check by approved electrical engineer each three month, make sure that the circuit contacts are in good condition, prevent the poor contact of circuit from overheating.

We recommend a frequent cleaning of the device. Please use a moist, lint-free cloth. Never use alcohol or solvents.

There are no serviceable parts inside the device. Please refer to the instructions under "Installation instructions".

Should you need any spare parts, please order genuine parts from your local dealer.

30CH Mode

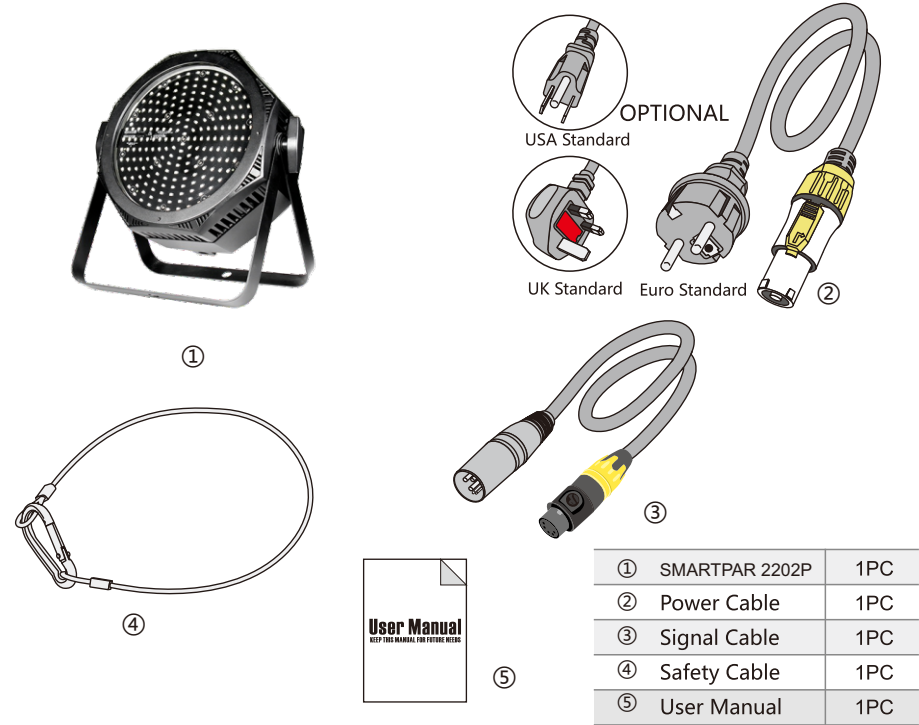
CH	DMX Value	Function
CH1	0-255	Warm white 1 (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH2	0-255	Cold white 1 (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH3	0-255	CTO Tuned light 1 (1-9 Warm white 10-245 hybrid 246-255 Cold white)
CH4	0-255	Warm white 2 (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH5	0-255	Cold white 2 (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH6	0-255	CTO Tuned light 2 (1-9 Warm white 10-245 hybrid 246-255 Cold white)
CH7	0-255	Warm white 3 (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH8	0-255	Cold white 3 (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH9	0-255	CTO Tuned light 3 (1-9 Warm white 10-245 hybrid 246-255 Cold white)
....
CH28	0-255	Warm white 10 (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH29	0-255	Cold white 10 (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH30	0-255	CTO Tuned light 10 (1-9 Warm white 10-245 hybrid 246-255 Cold white)

2 UNPACKING

The SMARTPAR 2202P is an IP65 rated high power indoor LED flat strobe par light using 220*0.2W 2-IN-1 LEDs (WW+CW in one) which is designed with 10 individual rings. It's available for 2500K-4600K color temperature adjustment.

It features excellent color mixing, quiet running and flicker free control. The fixture is built in with 13 internal dynamic effects with variable speed. The PAR also features optimum optic design integrated with extremely effective aluminum heat sink system.

The SMARTPAR 2202P is designed for applications as concerts, TV studios, conference halls, bars, pubs, DJ entertainment, architectural lighting projects, gardens, theme parks, etc.



3 FEATURES & SPECIFICATIONS

220*0.2W 2-IN-1 LEDs (WW+CW in one)
 10 Individual control rings
 Flicker free operation for broadcast TV and FILM
 Life Span: 50000H
 120°Field angle
 High output
 Warm white+cold white
 Smooth and pure color mixing capability
 CTO, 2500K-4600K color temperature adjustment
 13 built-in dynamic effects with variable speed
 Different preset colors
 0-25Hz LED shutter/strobe effect with variable speed
 0-100% Smooth linear LED dimming
 3/4/5/8/30 DMX channels USITT DMX-512
 DMX512, master-slave, sound or auto operation
 DMX recorder and edit function integrated
 IR Remote control
 RDM available (Remote Device Management)
 Wireless system as optional
 Shielded input signal protection for stable signal without interference
 IP65 Rated 3-pin XLR connectors IN/OUT
 Electronic supply with active PFC
 AC100-240V 50/60Hz
 IP65 Rated PowerCON connectors IN&OUT
 45W Power consumption
 -25°C to 45°C ambient temperature
 IP65 protection rating
 N.W.: 4.7kg
 G.W.: 5.55kg(1PCS)/24.1kg(4PCS)
 Product Dimensions: 107.5(D)*280(W)*315.5(H)mm
 Packing Dimensions: 310(D)*360(W)*170(H)mm(1PCS)
 375(D)*655(W)*375(H)mm(4PCS)

7 DMX CHANNELS

3CH Mode

CH	DMX Value	Function
CH1	0-255	Warm white (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH2	0-255	Cold white (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH3	0-255	CTO (0 OFF 1--255 2500K-4600K)

4CH Mode

CH	DMX Value	Function
CH1	0-255	Warm white (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH2	0-255	Cold white (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH3	0-255	Cold white (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH4	0-255	Tuned light (0-1 Off, 2-255 Dimmer from Dim to Bright)

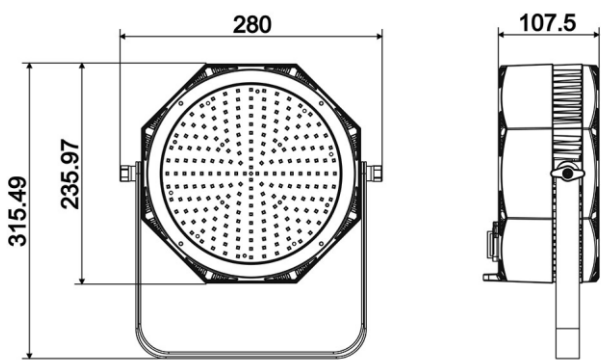
5CH Mode

CH	DMX Value	Function
CH1	0-255	Warm white (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH2	0-255	Cold white (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH3	0-255	CTO (0 OFF 1--255 2500K-4600K)
CH4	0-255	Tuned light (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH5	0-255	stroboscopic (0-1 Off, 2-255 Dimmer from Dim to Bright)

8CH Mode

CH	DMX Value	Function
CH	DMX Value	Function
CH1	0-255	Tuned light (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH2	0-255	stroboscopic (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH3	0-255	Warm white (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH4	0-255	Cold white (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH3	0-255	CTO (0 OFF 1--255 2500K-4600K)
CH6	0-255	Built-in Effects
	0-255	0-10 off
	0-255	11-28 The effect 1
	0-255	29-46 The effect 2
	0-255	47-64 The effect 3
	0-255	65-82 The effect 4
	0-255	83-100 The effect 5
	0-255	101-118 The effect 6
	0-255	119-136 The effect 7
	0-255	137-154 The effect 8
	0-255	155-172 The effect 9
	0-255	173-190 The effect 10
	0-255	191-208 The effect 11
	0-255	209-226 The effect 12
	0-255	227-255 The effect 13
CH7	0-255	Effect of speed(0-1 Off, 2-255 Dimmer from Dim to Bright)
CH8	0-255	Voice control(0-18 Off, 19-255 Dimmer from Dim to Bright)

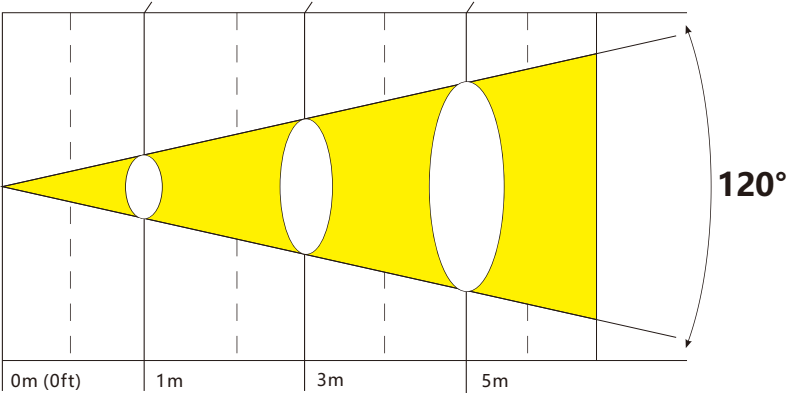
Wireless Settings	Operation	Receive			
		Transmit			
		Off			
	W-ID Code	1 ID ~ 7 ID			
System Settings	Display	On/Off			
	Display Reverse	On/Off			
	Key Lock	On/Off			
	Ir Remote	On/Off			
	Emergency	No/Yes			
	DMX Fail	Blackout			
		Hold			
		Master			
System Info	Reset Reload				
	Firmware	Ver 1.0			
	Time Info	xxxxH			
	Temperature	xxx°C			



4 PHOTOMETRIC DATA

■ Photometric Beam Angle Data 120° Beam Angle LUX × 0.0929=FC

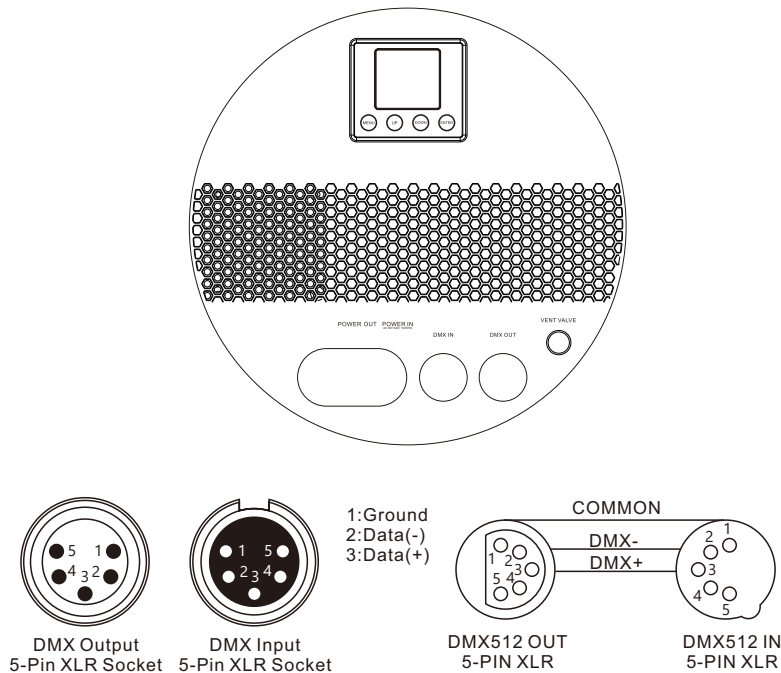
CW	2690/250	335/31	139/13	
WW	2792/259	350/32	145/13	
CW + WW	5150/478	656/61	264/24	(LUX)



5 DMX-512 CONTROL CONNECTIONS

Connect the provided XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the architectural. You can chain multiple Architectural together through serial linking. The cable needed should be two core, screened cable with XLR input and output connectors. Please refer to the diagram below.

DMX-512 connection with DMX terminator.



For installations where the DMX cable has to run a long distance or is in an electrically noisy environment, such as in a discotheque, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR plug with a 120 Ω resistor connected between pins 2 and 3, which is then plugged into the output XLR socket of the last fixture in the chain. Please see illustrations below.

6 MENU OPERATIONS

DMX	Address	001 -512			
Mode	DMX	3CH			
		4CH			
		5CH			
		8CH			
		30CH			
	Auto	Pro 0-9	SP 00-99		
		Step	SP 00-99		
		Fade	SP 00-99		
		PUSH	SP 00-99		
	Sound	Pro 0-9	SE 00-99		
		Step	SE 00-99		
		Fade	SE 00-99		
		PUSH	SE 00-99		
	MACRO	2500K	D 00-99	St 00-99	
		2600K	D 00-99	St 00-99	
		2700K	D 00-99	St 00-99	
		2800K	D 00-99	St 00-99	
		2900K	D 00-99	St 00-99	
		3000K	D 00-99	St 00-99	
		3100K	D 00-99	St 00-99	
		3200K	D 00-99	St 00-99	
		3300K	D 00-99	St 00-99	
		3400K	D 00-99	St 00-99	
		3500K	D 00-99	St 00-99	
		3600K	D 00-99	St 00-99	
		3700K	D 00-99	St 00-99	
		3800K	D 00-99	St 00-99	
		3900K	D 00-99	St 00-99	
		4000K	D 00-99	St 00-99	
		4200K	D 00-99	St 00-99	
		4400K	D 00-99	St 00-99	
		4600K	D 00-99	St 00-99	
	Custom A--D	A	B	C	D
		Dimmer	Dimmer	Dimmer	Dimmer
		Strobe	Strobe	Strobe	Strobe
		Red	Red	Red	Red
		Green	Green	Green	Green
		Blue	Blue	Blue	Blue