

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.



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Color[®]
IMAGINATION
the **POWER** of **DREAM**

DM712EC SMARTFACE 712EC



CE F  IP20 $t_a 40^{\circ}\text{C}$ $t_c 100^{\circ}\text{C}$

User Manual

KEEP THIS MANUAL FOR FUTURE NEEDS

1 SAFETY INSTRUCTIONS



CAUTION

Becareful 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.

25	Surface strobe	208 - 212
		213 - 225
		226 - 238
		239 - 251
		252 - 255
26	Face red 1	0 - 255
27	Green face 1	0 - 255
28	Blue face 1	0 - 255
29	Face red 2	0 - 255
30	Glossy green 2	0 - 255
31	Blue Face 2	0 - 255
32	Face red 3	0 - 255
33	Glossy green 3	0 - 255
34	Blue face 3	0 - 255
35	Face red 4	0 - 255
36	Glossy green 4	0 - 255
37	Blue face 4	0 - 255
38	Face red 5	0 - 255
39	Glossy green 5	0 - 255
40	Blue face 5	0 - 255
41	Face red 6	0 - 255
42	Glossy green 6	0 - 255
43	Blue face 6	0 - 255
44	Face red 7	0 - 255
45	Glossy green 7	0 - 255
46	Blue Face 7	0 - 255
47	Face red 8	0 - 255
48	Glossy green 8	0 - 255
49	Blue face 8	0 - 255
50	Glossy red 9	0 - 255
51	Glossy green 9	0 - 255
52	Blue face 9	0 - 255
53	Color temperature	0 - 255
54	Result	0 - 255
55	Effect speed	0 - 255
56	Reduce	0 - 255

7	Vertical infinite rotation	0 - 255
8	Dimming	0 - 255
9	Strobe	0 - 3
		4 - 103
		104 - 107
		108 - 207
		208 - 212
		213 - 225
		226 - 238
		239 - 251
		252 - 255
Ten	Red	0 - 255
11	Green	0 - 255
12	Blue	0 - 255
13	White	0 - 255
14	Color temperature	0 - 255
15	Result	0 - 255
16	Effect speed	0 - 255
17	Light strip dimming	0 - 255
18	Light band strobe	0 - 255
19	The light is red.	0 - 255
20	The light is green.	0 - 255
21	The light is blue.	0 - 255
22	Lightband effect	0 - 255
23	Lightband effect speed	0 - 255
24	Surface dimming	0 - 255
		0 - 3
		4 - 103
		104 - 107
		108 - 207

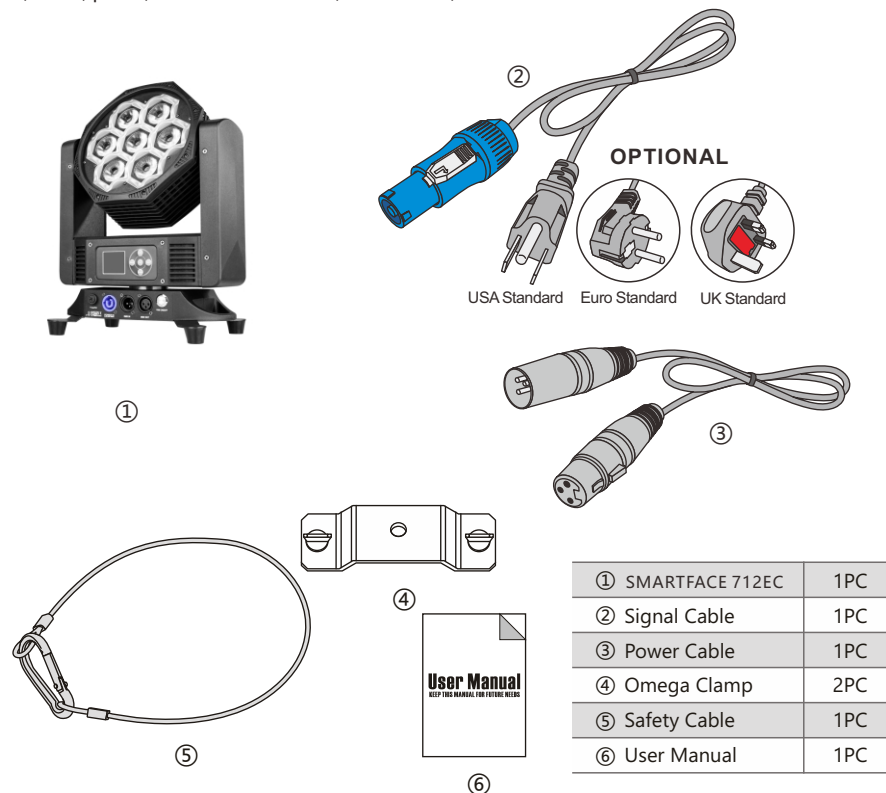
2 UNPACKING

The DOUBLE-SIDED designed SMARTFACE 712EC is an ultra compact and light weight stylish moving head WASH+STROBE light (2 Faces). Face 1 features 7*12W 4-IN-1 RGBW LEDs+60*0.2W 3-IN-1 RGB LEDs. It's available for 2800K-5600K color temperature adjustment. With the unique and creative exceptional luminaire surround the main lens, it helps to generate complex graphic effects. It can be used alone or in combination with the main LEDs. Face 2 features 246*0.2W 5050 3-IN-1 RGB LEDs which is designed with 9 individual rings. It's available for 2800K-5600K color temperature adjustment. The fixture could be used not just only as a wash light (specially moving face light) but also as a remarkable moving strobe light.

It provides 360° continuous fast and smooth PAN/TILT movement with variable speed which delivers even more vivid visual effect to the show. The fixture supports DMX, RDM (Remote Device Management).

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

The SMARTFACE 712EC is designed for applications as concerts, TV studios, banquet halls, bars, pubs, DJ entertainment, ballrooms, etc.



3 FEATURES & SPECIFICATIONS

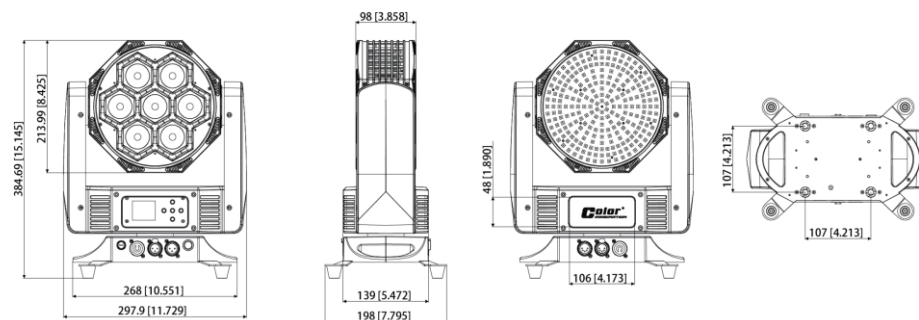
Face 1:
 7*12W 4-IN-1 LEDs (RGBW)
 60*0.2W 3-IN-1 LEDs (RGB)
 Pixel mapping capability for the exceptional luminaire
 Face 2:
 246*0.2W 5050 3-IN-1 LEDs (RGB)
 9 Individual control rings
 Flicker free operation for broadcast TV and FILM
 Life Span: 50000H
 Face 1:
 High efficiency optic system
 25° Beam angle (other angles optional)
 35° Field angle
 Face 2:
 120° Field angle
 High output
 PAN: 2 modes
 1. 360° Continuous movement
 2. 540° (8/16 bit)
 TILT: 2 modes
 1. 360° Continuous movement
 2. 270° (8/16 bit)
 Fast, quiet, smooth and precise 2-Phase motors
 Smooth, fast and precise resolution for PAN/TILT movement with low noise operation
 Scan position memory, auto reposition after unexpected movement
 PAN/TILT reversible
 Face 1:
 RGBW for main light
 Smooth and pure color mixing capability
 CTO, 2800K-5600K color temperature adjustment
 RGB for auxiliary light
 Background colors adjustable for auxiliary light
 Face 2:
 RGB
 Smooth and pure color mixing capability
 CTO, 2800K-5600K color temperature adjustment
 Different built-in dynamic effect with variable speed
 Different preset colors
 0-25Hz LED shutter/strobe effect with variable speed
 0-100% Smooth linear LED dimming
 32/56 DMX channels USITT DMX-512
 DMX512, master-slave, sound or auto operation
 DMX recorder and edit function integrated
 RDM available (Remote Device Management)
 Art-NET (Optional)
 Wireless receiver system built-in (Optional)
 Shielded input signal protection for stable signal without interference
 RJ45 etherCON IN/OUT (Optional with Art-Net)
 3-Pin and 5-pin XLR DMX connectors IN/OUT
 Software up-datable through DMX connectors
 Mult units up-datable in daisy chain
 1.44" TFT LCD display
 5 Control buttons
 180° Reversible for LCD display
 Display auto OFF
 DMX signal and error monitoring indicators
 Electronic supply with active PFC
 AC100-240V 50/60Hz
 PowerCON connectors IN&OUT
 190W Power consumption
 Operating positions: all (device on floor or fixed to a support)
 -25°C to 45°C ambient temperature
 IP20 protection rating

20	The light is green.	0 - 255
21	The light is blue.	0 - 255
22	Lightband effect	0 - 255
23	Lightband effect speed	0 - 255
24	Surface dimming	0 - 255
25	Surface strobe	0 - 3
		4 - 103
		104 - 107
		108 - 207
		208 - 212
		213 - 225
		226 - 238
		239 - 251
		252 - 255
26	The face is red.	0 - 255
27	The face is green.	0 - 255
28	The face is blue.	
29	Color temperature	0 - 255
30	Result	0 - 255
31	Effect speed	0 - 255
32	Reduce	0 - 255

56 Channel	Function	Dmx Value
1	Horizontal exercise	0 - 255
2	Horizontal fine-tuning	0 - 255
3	Vertical motion	0 - 255
4	Vertical fine-tuning	0 - 255
5	Motor speed	0 - 255
6	Horizontal infinite rotation	0 - 255

7 DMX CHANNELS

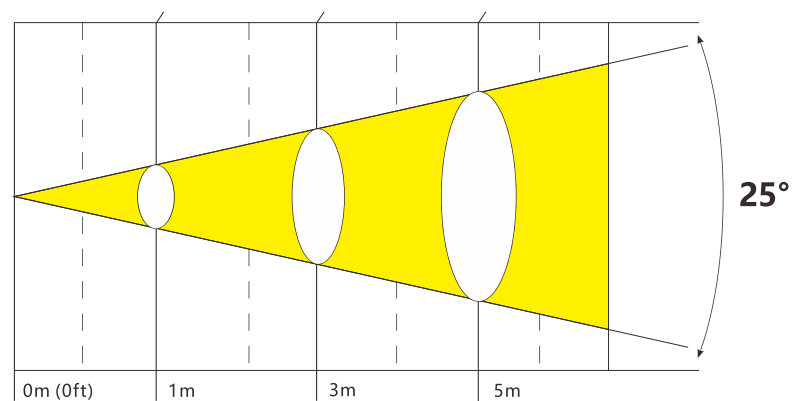
Channel	Function	Dmx Value
1	Horizontal exercise	0 - 255
2	Horizontal fine-tuning	0 - 255
3	Vertical motion	0 - 255
4	Vertical fine-tuning	0 - 255
5	Motor speed	0 - 255
6	Horizontal infinite rotation	0 - 255
7	Vertical infinite rotation	0 - 255
8	Dimming	0 - 255
9	Strobe	0 - 3
		4 - 103
		104 - 107
		108 - 207
		208 - 212
		213 - 225
		226 - 238
		239 - 251
		252 - 255
Ten	Red	0 - 255
11	Green	0 - 255
12	Blue	0 - 255
13	White	0 - 255
14	Color temperature	0 - 255
15	Result	0 - 255
16	Effect speed	0 - 255
17	Light strip dimming	0 - 255
18	Light band strobe	0 - 255
19	The light is red.	0 - 255



4 PHOTOMETRIC DATA

■ Photometric Beam Angle Data 25° Beam Angle LUX × 0.0929 = FC

R	1700/157	193/18	74/7
G	6850/636	822/76	317/29
B	353/32	43/4	18/2
W	8380/778	1010/94	383/35
RGBW	15830/1470	1940/180	736/68 (LUX)

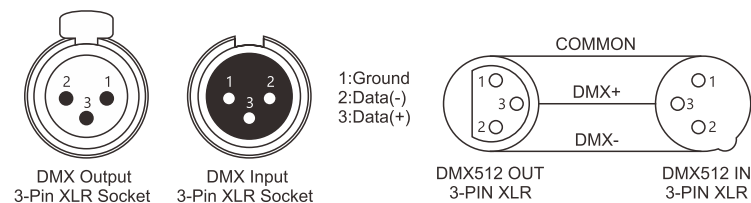


5 DMX-512 CONTROL CONNECTIONS

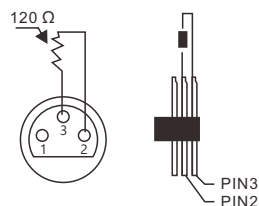
Connect the provided XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the architectural. You can chain multiple

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

Main Menu	Second	Third	Fourth
Dmx Address	000 - 512		
Fixture	Dmx Mode	STD / EXT	
	Run Mode	DMX / Host / Sound	
	Pan Invert	Close / Open	
	Tilt Invert	Close / Open	
	No Dmx Signal	Clear / Hold	
	Sound Control	1 -- 99	
Manual	Pan	000 - 255	
	Pan Fine	000 - 255	
	Tilt	000 - 255	
	Tilt Fine	000 - 255	
	?	?	
Information	Time	Current Time	xxxH
		Total Time	xxxH
	Sensor	All Sensor are ok!	
	Temperature	Head Temp	xxxC
Factory	Software Version	Panel	Vx.xx
	Password	000 - 255	
	Pan	000 - 255	
Fixture Reset	Tilt	000 - 255	
	Motor Reset	Cance / Run	
Display	Factory	Cance / Run	
	Language	CH / EN	
	Display Flip	Normal / Reverse	
	Display Mode	60s / Show	