

Instruction Manual



COMET 600 BSW FC

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Thank you for choosing our products and technology !
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To be on the safe side and under the terms of the security, do not allow to restructure and modify this product. Please note that because of man-made damage caused by improper use, is beyond the scope of our warranty.

This equipment pass strict inspection before shipment, please comply with the instruction manual operation requirements, to ensure the safe operation of the product under normal conditions. Any damage caused by improper operation, will cause the cessation of the warranty claim. Manufacturer does not accept any because of improper operation products or non-compliance of the instructions of any liability for property damage and personal injury.

Please place the manual in safe place for future reference and in products for sale or lease or handling running new holder.

1. Instruction

1.1 Application According to Purpose

- This product is a lighting effect which creates special light effects with one lamp. To generate these effects, the product must be connected to mains and a DMX-512 compatible controller.
- This product is designed for 110/230V, 50/60Hz operation and exclusively for indoor use.
- If used for any purpose other than described in these operating instructions, the device may suffer damage and the warranty expires. Also, any other use is linked with risks such as short circuits, fire, electrical shock, etc.
- The manufacturer's serial number must never be removed as otherwise the warranty expires.
- Safety and Maintenance

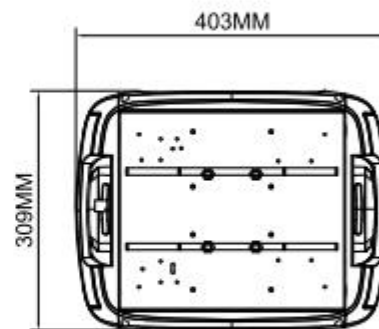
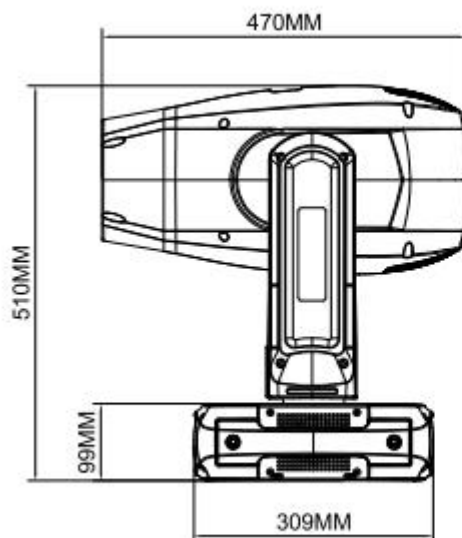
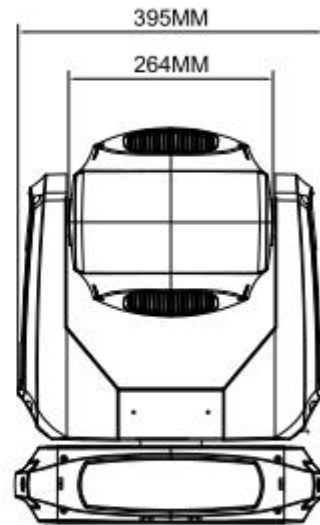
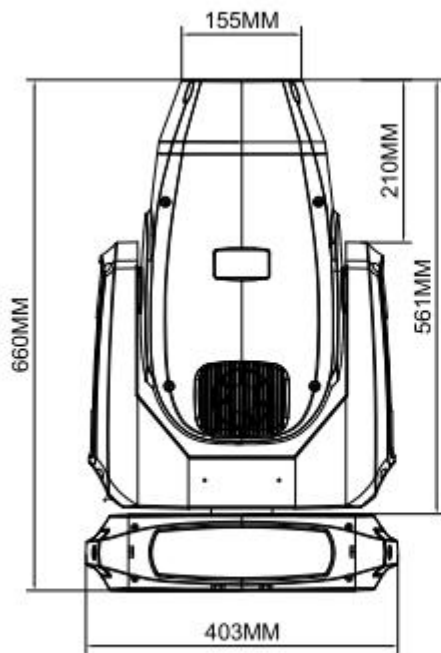
1.2 Indoor use only

- Make sure the equipment load-bearing structures can withstand the weight of more than 10 times when above ground installation
- Disconnect with power supply before replacing lamp, fuse or other accessories
- Only operation under electrical standards with leakage protection device A/C
- Cool down for 15 minutes before replacing lamps. Please do not use other company's accessories.
- Contact your specialized dealer for any technical problem

1.3 Safety operation

- Do not operate without outer cover or lenses
- Do not look directly to the light
- Replace immediately when lamp broken
- Do not project directly to items near 0.5M
- Do not operate when temperature up to 40°

1.4 Product size



2. LED Diodes



During operation, the lamps will reach temperatures of up to 75° C. Touching the lamps may cause serious burns! Objects coming into contact with the lamps during and shortly after operation may catch fire!

3. Supply Voltages, Mains Cord and Connection to Mains



ATTENTION:
DANGER OF LIFE! RISK OF BURNS!
RISK OF FIRE! RISK OF SHORT CIRCUIT!

- The handling of supply voltage, mains cords and connections to mains calls for particular care considering the risk from a life-threatening electric shock, the risk of fire and the risk of short circuits! Please observe the following notes in particular:
- Products operating on supply voltage should be kept out of the reach of children. Therefore ensure the permanent supervision if children are in the immediate vicinity of the product!
- For commercial facilities the regulations on the prevention of accidents of the respective trade association must be observed. The operation of this equipment at schools, training facilities, and hobby or self-help workshops must be supervised responsibly by trained personnel.
- Check the product regularly for any damage to the mains cord! Should you discover any damage to the mains cord, do not operate or disconnect this product! Secure the product against accidental operation and contact your specialized dealer Always separate the product from mains by holding the mains plug by the handling surface. Never disconnect by holding the line cord! Be sure to connect the product exclusively to 230 V, 50 Hz A/C!
- Always ensure during installation, operation, transport and when storing the product that the mains cord is not exposed to possible mechanical damage, or damage caused by humidity, fluids, heat or cold!
- The product's cable entry must not be exposed to stress from pull! Create the mains connection once the product has been installed only. Always connect the mains plug last!
- The product must only be connected to a proper outlet of the public supply grid. Connect the mains cord to suitable outlets only! Use extensions cords in compliance with specifications only! Do not allow the mains cord to come into contact with other cords!
- Ensure during installation, operation, transport and storage that none of the cables are freely exposed! Never touch the mains cord, mains plug and outlets with wet or damp hands!
- When not using the product, and prior to cleaning always disconnect the product from mains! To do so, hold the mains plug by the handling surface and never pull the mains cord!
- Never connect the device to dimmer packs!

4. Housing



ATTENTION:
DANGER OF LIFE! RISK OF BURNS!
RISK OF FIRE! RISK OF SHORT CIRCUIT!

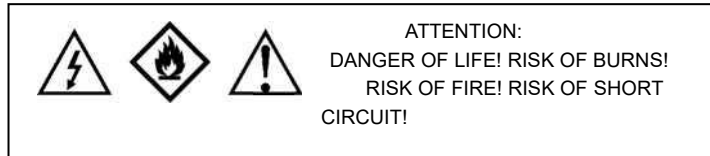
- Always ensure during installation, operation, transport and when storing the product that no shocks or other forces impact the housing!
- The housing must not touch onto any other devices or objects during operation!
- Easily flammable materials, e.g. decoration material and other surfaces and objects, must maintain a minimum distance of 3m to the housing! walls must maintain a minimum distance of 50cm to the housing! The device must be installed on a fireproof surface only (no carpet)! Always ensure a proper circulation of air.

Do not touch the housing during operation it will heat up. The housing is safe to touch approx. 5 minutes following the end of operation!

The device must never be carried via the projector arms. Use the carrying handles only!

Fluids must not enter the housing as this could reduce the protective insulation and may trigger short circuits which may lead to fatal electric shocks! If fluids have entered, disconnect the mains plug immediately and secure the product against unintentional operation and contact your specialized dealer! Damage caused as a result of fluids entering the housing is exempt from warranty.

No metal parts or other items must enter the housing as this may reduce the protective insulation or trigger short circuits which may lead to fatal electric shocks! If metal parts or other items have entered, disconnect the mains plug immediately, secure the product against unintentional operation and contact your specialized dealer! Damage caused by metal parts or other items in the housing is exempt from warranty.



The product must be operated and stored in a dry environment only! Splash water, rain, humidity, fog may reduce the protective insulation which may lead to fatal electric shocks! The limit value for relative humidity is 50% at 45° C. A minimum distance of 1.5m to a fog machine must be observed; fog saturation in the room must not reduce the visibility to below 10m.

The product must be operated at a temperature range of between -5 ° C and 45 ° C only. Protect the product against direct exposure to sunlight or other heat, such as from radiators! If the product is taken from a cold environment into a warm environment it must only be taken into operation once it has reached ambient temperature, since the condensation created by the difference in temperature may destroy the device!

Protect the product against dust! Dust may reduce the protective insulation, which may cause fatal electric shocks!

The product must be operated at altitudes ranging between 20m below and 3000m above sea level only!

The product must not be operated during thunder storms; risk of destruction from surge voltages!

The product must be operated at a minimum distance of 12 m to lit objects only!

5. Installation



This product can be operated suspended or as a stand-alone system.

Should your lighting effect show any signs of damage, do not install the device! In this case, have your lighting effect repaired by your specialized dealer. The manufacturer does not accept responsibility or liability for damage to property or personal injury resulting from an improperly installation!

As a stand-alone system the device must be installed vertically on an absolute planar, firm, fireproof, shock- and vibration-free surface. The installation of this lighting effect must be carried out by trained and professional staff! The installation of this lighting must only be carried out with the appropriate materials

The suspended installation of this lighting effect necessitates a suitable suspension system! The lighting effect must never be fixed swinging freely in the room. No individuals should linger underneath the lighting effect during suspended installation!

It is a must to install this device with a second independent fixture. Such second fixture must guarantee in the event of failure of the main fixture that no assembly parts will fall down. Use the fixture on the under-surface only.

The light effect unit must be attached via two certified hooks and omega bracket to a tie-bar system• Use the screw threads on the under-surface only.

It must be ensured that an expert inspects the mechanical and safety-relevant installation prior to the initial operation and following major modifications, prior to the renewed operation. It must be ensured that an expert inspects the mechanical and safety-relevant installation at least once a year. It must be ensured that an expert inspects the mechanical installation and the installation of relevance to safety within the framework of an acceptance test at least every four years.

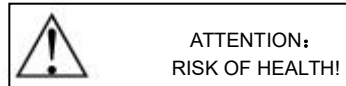
The installation fixture must be as such that it can withstand for a period of 60 minutes 10 times the load capacity without harmful deformation.

It is prohibited for any individual to unnecessarily stay or pass beneath the installation during any type of assembly work.

The light effect unit must be secured by a safety arrested cable if fly-mounted. The cable must withstand 12 times the weight of the light effect unit. Use arrester cables equipped with quick closing links. The dropping

distance must not exceed 20 cm. Defect arrested cables or arrested cables that have already been exposed to stress must not be used.

6. Operation



7.1 Controls

Link all DMX devices with a DMX-512 controller by using a standard, 3-pin DMX cable or 5-pin DMX cables. Connect the output of the first device with the input of the second device and the output of the second device with the input of the third device and so on.

Connect the mains plug to an outlet.

Connect the mains plug to an outlet.

Operating the product for the first time may generate smoke and odour; this is not a defect. Avoid dis/connecting the product repeatedly and quickly from/with mains! Always wait 15 minutes prior to the next dis/connection

7.2 Menu

- **Display**



- **Address code: 001**
- **24CHA: Show current channel**

- **Display Menu**

- **Add: Setup address**
- **Channel: choose channel mode**

Work Mode: DMX, Auto Run, Sound active, master-slave mode

Address	DMX Ctrl	✓
WorkMode	Auto Run	
Display	Sound Ctrl	
Scene	Scene Mode	Auto
Advanced	M/S Choose	Auto
Status		
Escape		

Display:

Address	语言	English
WorkMode	Screen saver	Mode3
Display	Screen Rot	Auto
Scene	DMX Indicate	Mode3
Advanced	Signal Bright	005
Status	Screen Light	010
Escape	Touch Enable	ON
	Touch Rectify	

Scene

Address	Scene Select	1
WorkMode	Scene Time	0.0s
Display	Control Mode	OFF
Scene	01. Pan	000
Advanced	02. Pan Fine	000
Status	03. Tilt	000
Escape	04. Tilt Fine	000
	05. PT Spd	000

Advanced set

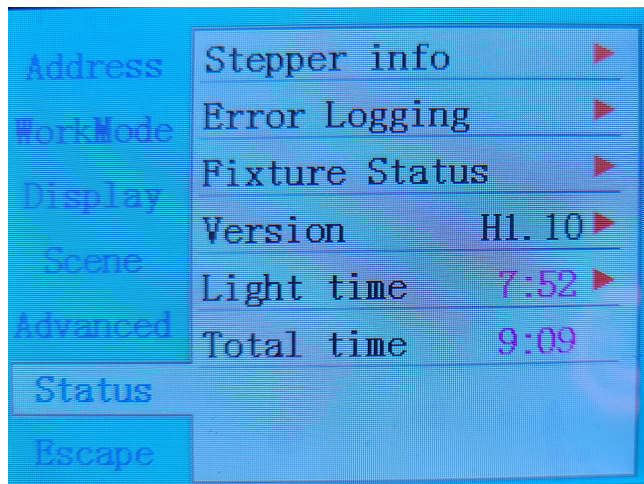
Address	Pan Invert	OFF
WorkMode	Tilt Invert	OFF
Display	P/T Rectify	ON
Scene	Pan Offset	010
	Tilt Offset	010
Advanced	Data hold	OFF
Status	Factory Setting	
Escape		

Picture 11

Get into page like picture 11, can adjust the scene parameter to make easier installation.

Network Configuration	Set ArtNET parameters
	Communication options. Set the current DMX signal source and provide three communication selection modes. 1. "DMX" mode. The DMX signal source comes from the DMX console; 2. "DMX&NET" mode. When there is no ArtNET signal, it will automatically switch to receive the DMX console signal, and when there is an ArtNET signal, it will receive the ArtNET signal; 3. "ArtNET" mode. Only receive ArtNET signals.
	IP address. The IP address currently used by this device is set according to the host of the control device.
	Subnet mask. The subnet mask currently used by the device is set according to the network segment and the subnet mask of the control device host.
	Universe. The universe currently used by this device, the range is 0~255.
	DHCP. Whether to enable automatic acquisition of IP address and subnet mask, enable/disable.
	sACN. Whether to enable the sACN protocol, enable/disable.

Status show



8. Technical parameters

Input Voltage: 100-240V 50/60 Hz

Light Source: 600W white LED

Color temperature: 9500K

Gobos: one static gobo wheel: 12 static gobos+ open

one rotating gobo wheel: 7 interchangeable, rotating, indexable gobos + open

Color: one color wheel, 7 colors + Open, half-color and rainbow effect

CMY, linear mixed color

CTO: Separate CTO 3200K-8500K

Prism: two prisms, 6 facet linear prism, 4 facet prism

Zoom: 4-35° linear zoom

Dimming: 0~100% linear dimming

Strobe: With strobe effect

Frost: Fine wash effect

Display: LCD display

Channel: 24CH

Control Mode: DMX 512, Auto-running, Master/slave, Sound active, Built-in program

Movement: Pan 540° ; Tilt 270° ; auto X/Y repositioning, fast, quiet and smooth

Gross weight: 28KG

Net Weight: 24KG

Packing size: 490*410*780MM

9 Channel

24CH	Function	DMX Value	Function
1	Pan	0~255	X movement 0~540 degree
2	Pan fine	0~255	X fine 16bit
3	Tilt	0~255	Y movement 0~240 degree
4	Tilt fine	0~255	Y fine 16bit

5	XY speed	0~255	From fast to slow
6	Dimmer	0~255	From dark to bright
7	Strobe	0~3	OFF
		4~103	Pulse strobe from slow to fast
		104-107	ON
		108-155	Flicker gradually from slow to fast
		156-207	Flickering from slow to fast
		208-212	ON/OFF
		213-251	Random strobe from slow to fast
		252-255	ON
8	Color wheel	0-9	White
		10-19	Color 1
		20-29	Color 2
		30-39	Color 3
		40-49	Color 4
		50-59	Color 5
		60-69	Color 6
		70-79	Color 7
		80-89	Color 8
		90-99	White + Color 1
		100-109	Color 1+ Color 2
		110-119	Color 2+ Color 3
		120-129	Color 3+ Color 4
		130-139	Color 4+ Color 5
		140-149	Color 5+ Color 6
		150-159	Color 6+ Color 7
		160-169	Color 7+ Color 8
		170-255	Reverse flow from slow to fast
9	Cyan	0~255	Cyan linear change
10	Magenta	0~255	Magenta linear change
11	Yellow	0~255	Yellow linear change
12	CTO	0-255	CTO
13	Fixed wheel gobo	0~4	White
		5~9	Gobo1
		10~14	Gobo2
		15~19	Gobo3
		20~24	Gobo4
		25~29	Gobo5
		30~34	Gobo6
		35~39	Gobo7
		40~44	Gobo8
		45~49	Gobo9

		50~54	Gobo10
		55~59	Gobo11
		60~64	Gobo 12
		65~74	Gobo 2 shake from slow to fast
		75~84	Gobo 3 shake from slow to fast
		85~94	Gobo 4 shake from slow to fast
		95~104	Gobo 5 shake from slow to fast
		105~114	Gobo 6 shake from slow to fast
		115~124	Gobo 7 shake from slow to fast
		125~134	Gobo 8 shake from slow to fast
		135~144	Gobo 9 shake from slow to fast
		145~154	Gobo 10 shake from slow to fast
		155~164	Gobo 11 shake from slow to fast
		165~174	Gobo 12 shake from slow to fast
		175~184	Gobo12
		185~218	Clockwise water flowing effect of gobo, from fast to slow
		219~221	OFF
		222~255	Anti-clockwise water flowing effect of gobo, from slow to fast
14	Rotation gobo wheel	0~9	White
		10~19	Gobo1
		20~29	Gobo2
		30~39	Gobo3
		40~49	Gobo4
		50~59	Gobo5
		60~69	Gobo6
		70~79	Gobo7
		80~89	White shake
		90~99	Gobo1 shake
		100~109	Gobo2 shake
		110~119	Gobo3 shake
		120~129	Gobo4 shake
		130~139	Gobo5 shake
		140~149	Gobo6 shake
		150~159	Gobo7 shake
		160~205	Clockwise water flowing effect of gobo, from fast to slow
		206~209	Off
		210~255	Anti-clockwise water flowing effect of gobo, from slow to fast
15	Gobo rotation	0~127	Gobo linear rotation

		128~189	Clockwise rotation of gobo, from fast to slow
		190~193	Without rotation
		194~255	Anti-clockwise rotation of gobo, from slow to fast
16	Prism 1	0~127	Prism1 out
		128~255	Prism1 in
17	Prism 1 rotation	0~127	Prism1 rotation
		128~187	Prism1 Clockwise rotation (from fast to slow)
		188~195	Without rotation
		196~255	Prism1 anti-clockwise rotation, flow slow to fast
18	Prism 2	0~127	Prism2 out
		128~255	Prism2 in
19	Prism 2 rotation	0~127	Prism 2 rotation
		128~187	Prism 2 clockwise rotation (from fast to slow)
		188~195	Without rotation
		196~255	Prism 2 anti-clockwise rotation, flow slow to fast
20	Frost	0~127	Frost out
		128~255	Frost in
21	Focus	0~255	Linear focus 0-100% from far to near
22	Zoom	0~255	Linear zoom 0-100% from small to big
23	Reserved	0~255	Reserved function
24	Function	100-150	Reset the effect motor over 6 seconds
		151-200	Reset the effect motor over 6 seconds
		201-255	Reset all over 6 seconds

10. Fuse of the replacement

Disconnect the product from the mains prior before changing a fuse.

Only replace the fuse by a fuse of same type and rating! An incorrect fuse could damage or destruct the lighting effect.

Replace a fuse by levering the fuse holder cover with an appropriate screwdriver. Remove the old fuse and place the fuse inside the holder. Replace the fuse holder and insert it.

Never connect the lighting effect to the mains prior with opened housing.

11. Care instructions

The product must be freed regularly from dust, other deposits and contamination as this may reduce the protective insulation, which may lead to a fatal electric shock!

Before cleaning, always disconnect the product from mains!

This product should be cleaned with a moist cloth only; never use aggressive cleaning agents, solvents or benzine for cleaning.