

Instruction Manual

PROFESSIONAL SHOW LIGHT

Beast 280(Beam+Spot)



Unpacking: Thank you for purchasing Beast280(Beam+Spot). Every unit has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your fixture for any damage and be sure all accessories necessary to operate the unit has arrived intact. In the case damage has been found or parts are missing, please contact the manufacturer or your dealer for further instructions. Do not return this unit to your dealer without first contacting.

FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE POWERING OR INSTALLING Beast280(Beam+Spot). SAVE IT FOR FUTURE REFERENCE.

Warning! To prevent or reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.

PLEASE consider that damages caused by manual modifications to the device are not subject to warranty.

Caution! There are no user serviceable parts inside this unit. Do not attempt any repairs yourself; doing so will void your manufactures warranty. In the unlikely event your unit may require service please contact the manufacturer or your dealer.

PLEASE recycle the shipping carton whenever possible.

General Instructions: To optimize the performance of this product, please read these operating instructions carefully to familiarize you with the basic operations of this unit. These instructions contain important safety information regarding the use and maintenance of this unit.

Safety Precautions

- To reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.
- Do not spill water or other liquids into or on to your unit.
- Be sure that the local power outlet match that of the required voltage for your unit.
- Do not attempt to operate this unit if the power cord has been frayed or broken. Do not attempt to remove or break off the ground prong from the electrical cord. This prong is used to reduce the risk of electrical shock and fire in case of an internal short.
- Disconnect from main power before making any type of connection.
- Do not remove the cover under any conditions. There are no user serviceable parts inside.
- Never operate this unit when it's cover is removed.
- Never plug this unit in to a dimmer pack.
- Always be sure to mount this unit in an area that will allow proper ventilation. Allow about 6" (15cm) between this device and a wall.
- Do not attempt to operate this unit, if it becomes damaged.
- This unit is intended for indoor use only; use of this product outdoors voids all warranties.
- During long periods of non-use, disconnect the unit's main power.
- Always mount this unit in safe and stable matter.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to the point they exit from the unit.
- Cleaning -The fixture should be cleaned only as recommended by the manufacturer. See "Cleaning" for details.
- Heat -The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- The fixture should be serviced by qualified service personnel when:
 - A. The power-supply cord or the plug has been damaged.
 - B. Objects have fallen, or liquid has been spilled into the appliance.
 - C. The appliance has been exposed to rain or water.

D. The appliance does not appear to operate normally or exhibits a marked change in performance.

Technical Specifications

Electrical

Power supply:.....electronic auto-ranging
Input voltage range:.....supply 100-250V, 50/60Hz
Power consumption:.....470W

Optic

Light source: OSRAM HRI 280W Lamp
LED life expectancy: 2200 hours
Lens: High precision optical lens
Strobe: Dual lens strobe (0.5-9times/second)
Dimmer: Smooth dimmer from 0-100%

Feature

Color: wheel :13 color+white
Rotating gobo wheel: 9 gobos+ white
Static gobo wheel: 14 fixed gobos+white
Prism 1: 8-facets circular rotating prism
Prism 2: 6-facets linear rotating prism
Zoom: 2.5°-20°
Focus: Linear adjustment

Motorized

Pan/Tilt
Pan movement range: 540°
Tilt movement range: 270°
8bit/16 bit movement solution, optional
Automatic Pan/Tilt position correction
Pan movement 0°-540°at max.....
Tilt movement 0°-270°at max.....

LCD operation

Built-in demo sequences
Silent fans cooling
Strong two-phase motors
Stand-alone operation
Supported protocols: DMX512
2 DMX modes (16/24 control channels)

Connection

DMX data in/out: Locking 3-pin and 5-pin XLR
AC power input: 1.5m power cord with plug

Rigging

Mounting points: 2 pairs of 1/4-turn locks
Mounting horizontally or vertically via 2 Omega brackets

Temperatures

Maximum ambient temperature: 45°C

Maximum housing temperature: 75°C

Minimum distances

Min. distance from flammable surfaces: 3.0m

Min. distance to lighted object: 2.0m

Dimension: 386(L) x 365(W) x 589(H) mm

Weight (net): 19kg

Warranty: 1 Year

Set Up:


Power Supply: Before plugging your unit in, be sure the source voltage in your area matches the required voltage for unit, The model is Auto power supply, It is workable in 100-250V/50~60Hz. Please make sure your unit voltage matches the wall outlet voltage before attempting to operate you fixture.

Connection to the mains

For protection from electric shock, the fixture must be earthed!

Install a suitable plug on the power cord, note that the cores in the power cord are colored according to the following table. The earth has to be connected!

If you have any doubts about proper installation, consult a qualified electrician.

Core (EU)	Core (US)	Connection	Plug Terminal Marking
Brown	Black	Live	L
Light blue	White	Neutral	N
Yellow/Green	Green	Earth	

DMX512 connection

The fixture is equipped with both 3-pin and 5-pin XLR sockets for DMX input and output. The sockets are wired in parallel.

Only use a shielded twisted-pair cable designed for RS-485 and 3-pin or 5-pin XLR-plugs and connectors in order to connect the controller with the fixture or one fixture with another.

DMX-output

DMX-input

XLR mounting-sockets (rear view):

XLR mounting-plugs (rear view):



1-Shield
 2-Signal (-)
 3-Signal (+)
 4-Not connected
 5-Not connected



1-Shield
 2-Signal (-)
 3-Signal (+)
 4-Not connected
 5-Not connected

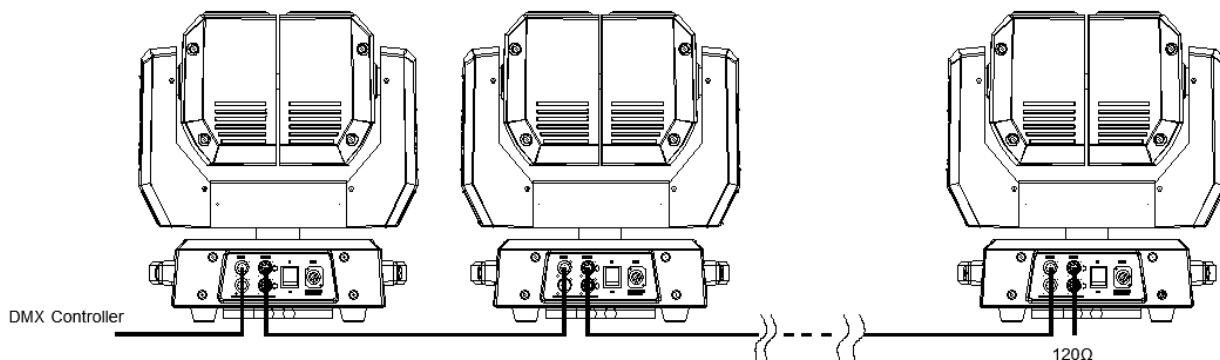


DMX Linking: To ensure proper DMX data transmission, when using several DMX fixtures try to use the shortest cable path possible. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned a DMX address of 1 may be placed anywhere in a DMX line, at the beginning, at the end, or anywhere in the middle. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

Building a serial DMX-chain:

Connect the DMX-output of the first fixture in the DMX-chain with the DMX-input of the next fixture. Always connect one output with the input of the next fixture until all fixtures are connected.

Caution: At the last fixture, the DMX-cable has to be terminated with a terminator. Solder a 120Ω resistor between Signal (–) and Signal (+) into a 3-pin XLR-plug and plug it in the DMX-output of the last fixture.



Operating Modes: You can use Beast280 (Beam+Spot) in 4 ways:

- Auto Mode - The unit will automatically chase through the different colors and built-in programs.
- Slave Mode – The unit will run under slave mode.
- DMX control mode - This function will allow you to control each individual fixtures traits with a standard DMX 512 controller.
- Sound control mode- When music play. The unit will work with music beat.

DMX Mode: Operating through a DMX controller give the user the freedom to create their own programs tailored to their own individual needs. This function also allows you to use your fixtures as spot lights.

1. This function will allow you to control each individual fixture's traits with a standard DMX 512 controller.
2. The Beast 280 (Beam+Spot) has 16/24 two DMX channels to operate. Please see "DMX Values and Functions" for the DMX traits.
3. To run your fixture in DMX mode, plug in the fixture via the XLR connections to any standard DMX controller. Set your desired DMX address following the setup specifications that come with your DMX controller.

Hanging Drawing:

CAUTION!

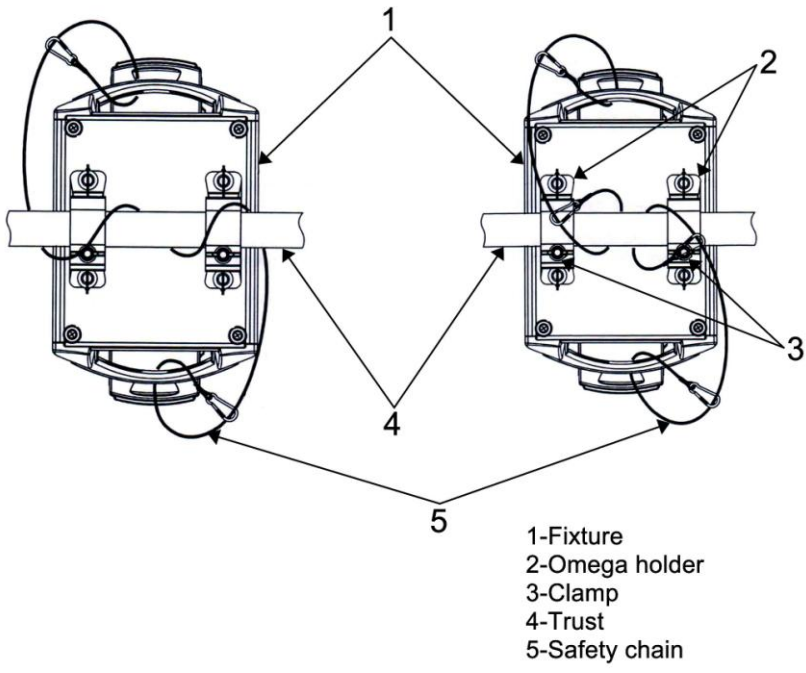
Use an appropriate clamp to ring the fixture on the truss.

Follow the instructions mentioned at the bottom of the base.

Make sure that the device is fixed properly! Ensure that the structure (truss) to which you are attaching the fixtures is secure.

Securing the fixture via one safety wire

Securing the fixture via two safety wires



Menu Map

1. FEATURES SETTING

- Run Mode
 - DMX
 - WIRE
 - AUTO
- Chan Mode
 - STAN
 - DEFE
 - SMAL
- X Reverse
 - ON
 - OFF
- Y Reverse
 - ON
 - OFF
- XY Speed
 - FAST
 - SLOW
 - NORM
- X. Angle
 - 540
 - 360
 - 630
- XY Fback
 - ON
 - OFF
- Signal Clear
 - ON
 - OFF
- Full Color
 - ON
 - OFF
- Shortcut
 - ON
 - OFF
- ESC

4. DISPLAY SETTING

- Brightness
 - 1 Level
 - 2 Level
 -
 - 6 Level
 - 7 Level
- LightDelay
 - 10 Sec
 - 20 Sec
 - 30 Sec
 - On
- Menuback
 - 10 Sec
 - 20 Sec
 - 30 Sec
 - Off
- Flicker
 - On
 - Off
- ESC

2. MANUAL

- LAMP REST
(Can be multiple choice)
 - ALL MOTER
 - PART MOTER
 - XY MOTER
- TEST RUN
 - AUTO
 - SOUND
- SMULATE DMX
 - CH1 (0-255)
 - CH2 (0-255)
 -
 - CH31 (0-255)
 - CH32 (0-255)

3. SYSTEM INFO

- DMX VALUE
 - CH1 0
 - CH2 0
 -
 - CH31 0
 - CH32 0
- OTHER INFO → About other info for this device
- ERROR INFO → About error info for this device

5. LAMP SETTING (Can be multiple choice)

- Default
 - ON
 - OFF
- Manual
 - ON
 - OFF
- Electronic
 - ON
 - OFF

6. REVERSAL

Click on the window reverse phase

7. LANGUAGE

Chinese/English can be optional

8. ESC

Click to return to the original interface

DMX Chart:

Standard Mode	Reduced Mode	DMX Value	Function	Description
1	1	0-255	Pan	Pan
2	*	0-255	Pan Fine	Pan Fine
3	2	0-255	Tilt	Tilt
4	*	0-255	Tilt Fine	Tilt Fine
5	3	0-255	Pan/Tilt Speed	Pan/Tilt Speed Fast-Slow
6	4	0-19	Macro	No Function
		20-24		Energy Saving Mode (230W)
		25-129		No Function
		130-139		Lamp On
		140-149		Pan/Tilt Reset
		150-159		No Function
		160-169		Effect Reset
		170-199		No Function
		200-209		Fixture Reset
		210-229		No Function
		230-239		Lamp Off
		240-255		No Function
		7		5
9-17	Deep Red			
18-26	Deep Blue			
27-35	Yellow			
36-44	Green			
45-53	Fuchsine			
54-62	Blue			
63-71	Red			
72-80	Deep Green			
81-89	Amber			
90-98	Blue			
99-107	Orange			
108-116	Color Temperature Reduced			
117-127	Fluorescent Blue			
128-129	White			
130-134	Twinkling blue +Color Temperature Reduced			
135-138	Color Temperature Reduced +Orange			
139-143	Orange+Blue			
144-147	Blue+Amber			
148-152	Amber+Deep Green			
153-157	Deep Green+Red			
158-161	Red+Blue			
162-166	Blue+Fuchsine			
167-171	Fuchsine+Green			
172-176	Green+Yellow			

		177–180		Yellow+Deep Blue
		181–185		Deep Blue+Deep Red
		186–189		Deep Red+White
		190–220		Rotating Color-Wheel backwards Fast-Slow
		221–250		Rotating Color-Wheel forwards Slow-Fast
		251–255		Sound Control-Color Change
8	*	/	/	No Function
9	6	/	/	No Function
10	7	0–3	Static Gobo Wheel	NO
		4–9		Gobo 1
		10–15		Gobo 2
		16–21		Gobo 3
		22–27		Gobo 4
		28–33		Gobo 5
		34–39		Gobo 6
		40–45		Gobo 7
		46–51		Gobo 8
		52–57		Gobo 9
		58–63		Gobo 10
		64–69		Gobo 11
		70–75		Gobo 12
		76–87		Gobo 13
				Gobo Shake Slow-Fast
		88–95		Gobo 13
		96–103		Gobo 12
		104–111		Gobo 11
		112–119		Gobo 10
		120–127		Gobo 9
		128–135		Gobo 8
		136–143		Gobo 7
		144–151		Gobo 6
152–159	Gobo 5			
160–167	Gobo 4			
168–175	Gobo 3			
176–183	Gobo 2			
184–199	Gobo 1			
200–255	Static Gobo-Wheel forwards Slow-Fast			
11	8	0–8	Rotating Color Wheel	NO
		9–17		Gobo 1
		18–26		Gobo 2
		27–35		Gobo 3
		36–44		Gobo 4
		45–53		Gobo 5
		54–62		Gobo 6

		63–71		Gobo 7
		72–80		Gobo 8
		81–89		Gobo 9
				Gobo Shake Slow-Fast
		90–97		Gobo 9
		98–106		Gobo 8
		107–115		Gobo 7
		116–124		Gobo 6
		125–133		Gobo 5
		134–142		Gobo 4
		143–151		Gobo 3
		152–160		Gobo 2
		161–169		Gobo 1
		171–179		Gobo 1 Stop
		180–217		Rotating Gobo-Wheel forwards Fast-Slow
		218–255		Rotating Gobo-Wheel forwards Slow-Fast
12	9	0–127	Rotating Gobo Wheel	Index
		128–177		Rotating Gobo-Wheel backwards Slow-Fast
		178–203		Stop
		204–255		Rotating Gobo-Wheel forwards Fast-Slow
13	*	0–255		No Function
14	10	0–19	Prism	No Function
		20–75		6-facet Linear Prism
		76–255		8-facet Round Prism
15	11	0–127	Rotating Prism	Index
		128–191		Rotating Prism forwards Fast-Slow
		192–193		No Function
		194–255		Rotating Prism backwards Slow-Fast
16	12	0–64	Frost	No Function
		65–255		Frost Small-Big
17	13	0–255	Zoom	Zoom
18	*	0–255	Zoom Fine	Zoom Fine
19	14	0–255	Focus	Focus
20	*	0–255	Focus Fine	Focus Fine
21	*	0–255	No Function	No Function
22	15	0–31	Strobe	Strobe Off
		32–63		Strobe On
		64–95		Strobe Slow-Fast
		96–127		Strobe On

		128–143		Slow Close / Fast Open Fast-Slow
		144–159		Fast Open/Slow Close Slow-Fast
		160–191		Strobe On
		192–223		Random Strobe Slow-Fast
		224–255		Strobe On
23	16	0–255	Dimmer	Linear Dimming 0-100%
24	*			No Function

Cleaning

Due to fog residue, smoke, and dust cleaning the internal and external optical lenses must be carried out periodically to optimize light output.

1. Use normal glass cleaner and a soft cloth to wipe down the outside casing.
2. Clean the external optics with glass cleaner and a soft cloth every 20 days.
3. Always be sure to dry all parts completely before plugging the unit back in.

Cleaning frequency depends on the environment in which the fixture operates (i.e. smoke, fog residue, dust, dew).

TROUBLE SHOOTING: Listed below are a few common problems the user may encounter, with solutions.

Unit not responds to DMX:

1. Check that the DMX cables are connected properly and are wired correctly (pin 3 is “hot”; on some other DMX devices pin 5 may be ‘hot’). Also, check that all cables are connected to the right connectors; it does matter which way the inputs and outputs are connected.

PLEASE Note: All information is subject to change without prentice !