

LED Beam+Wash 19x20W RGBLAC Zoom Light



CAUTION! Keep this device away from rain and moisture!

FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY

BEFORE YOU INITIAL START - UP!

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1-Maintenance

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.

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

During the operation the housing becomes hot). Allow the fixture to cool approximately 20 minutes prior to manipulate with it.

Make sure that the available voltage is not higher than stated on the rear panel.

to completely remove power from unit when not in use or before cleaning or servicing the fixture.

Make sure that the power-cord is never crimped or damaged by sharp edges. Check the device and the power-cord from time to time.

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.

This device falls under protection class I. Therefore it is essential to connect the yellow/green conductor to earth.

The electric connection, repairs and servicing must be carried out by a qualified employee.

Do not connect this device to a dimmer pack.

Do not switch the fixture on and off in short intervals as this would reduce the fixture's life.

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

Do not touch the device's housing bare hands during its operation (housing becomes hot)!

For replacement use fixtures and fuses of same type and rating only.



CAUTION!

Be careful with your operations.

With a high voltage you can suffer a dangerous electric shock when touching the wires!

2-Operating determination

Attention: The powerCON is a connector without breaking capacity, i.e. the powerCON should not be connected or disconnected under load or live!

This device is a moving head for creating decorative effects and was designed for indoor use only.

This device is for professional use only. It is not for household use.

If the device has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.

Before switching the fixture OFF, turn the fixture OFF and allow the fixture to cool for a while.

Never run the device without fixture!

Do not shake the device. Avoid brute force when installing or operating the device.

Never lift the fixture by holding it at the projector-head, as the mechanics may be damaged.

Always hold the fixture at the transport handles.

When choosing the installation-spot, please make sure that the device is not exposed to extreme heat, moisture or dust. There should not be any cables lying around. You endanger your own and the safety of others!

The minimum distance between light output and the illuminated surface must be more than 8 meters.

Make sure that the area below the installation place is blocked when rigging, derigging or servicing the fixture.

Always fix the fixture with an appropriate safety rope. Fix the safety rope at the correct holes only.

Only operate the fixture after having checked that the housing is firmly closed and all screws are tightly fastened.

The fixture must never be ignited if the objective-lens or any housing-cover is open, as discharge fixtures may

explode and emit a high ultraviolet radiation, which may cause burns.

The maximum ambient temperature 45°C must never be exceeded.

3-Attention Item

1. For guarantee the life of product, please do not put it on the wet place and not use it the place over 40 degree.

2. Please don't lay the product on the un-fixable or shakable place.

3. Ask for the professional to maintain the product in order to avoid the danger of get an electric shock.

4. Power supply should not be changed over +&-10% while the light is using, it will be decreased the life of fixture if the power is too high, but it will be influenced the luminosity if the power is too low.

5. After power off, if it is need used again, please cool down over 20 minuter.

6. Please look round the manual for ensure the product can be used normally.

4-Rigging the fixture

A structure intended for installation of the fixture(s) must safely hold weight of the fixture(s) placed on it. The structure has to be certificated to the purpose.

The fixture (fixtures) must be installed in accordance with national and local electrical and construction codes and regulation.

For overhead installation, the fixture must be always secured with a safety wire that can bear at least 10 times the weight of the fixture

When rigging, derigging or servicing the fixture staying in the area below the installation place, on bridges, under high working places and other endangered areas is forbidden.

The operator has to make sure that safety-relating and machine-technical installations are approved by an expert before taking into operation for the first time and after changes before taking into operation another time.

The operator has to make sure that safety-relating and machine-technical installations are

approved by a skilled person once a year.

Allow the fixture to cool for ten minutes before handling.

The projector should be installed outside areas where persons may walk by or be seated.

IMPORTANT! OVERHEAD RIGGING REQUIRES EXTENSIVE EXPERIENCE

including calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the projector. If you lack these qualifications, do not attempt the installation yourself, but use a help of professional companies.

CAUTION: Fixtures may cause severe injuries when crashing down! If you have doubts concerning the safety of a possible installation, do not install the fixture!

The fixture has to be installed out of the reach of public.

The fixture must never be fixed swinging freely in the room.

Danger of fire !

When installing the device, make sure there is no highly inflammable material (decoration articles, etc.) in a distance of min. 1 m.

The minimum distance of 8 meters between light output from the moving head and the lit objects must be kept!

CAUTION!

Use 2 appropriate fixtures to rig 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.

The fixture can be placed directly on the stage floor or rigged in any orientation on a truss without altering its operation characteristics.

For securing a fixture to the truss, install two safety wires which can hold at least 10 times the weight of the fixture. Use only the safety wires with screw-on carabines.

5-DMX-512 connection

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

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

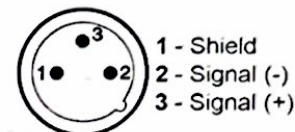
DMX - output

XLR mounting-sockets (rear view):

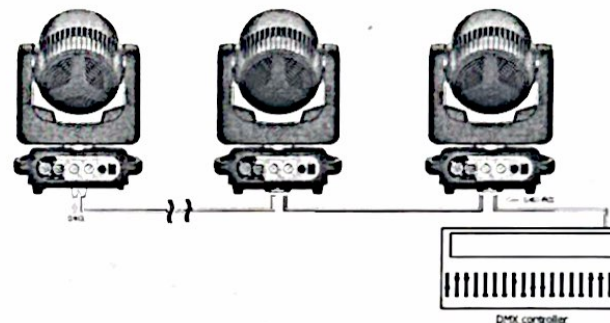


DMX-input

XLR mounting-plugs (rear view):



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. Up to 32 fixtures can be connected.

Caution: At the last fixture, the DMX-cable has to be terminated with a terminator.

Solder a 120 Ω resistor between Signal (-) and Signal (+) into a 3-pin (5-pin) XLR-plug and plug it in the DMX-output of the last fixture.

6-Technical Specifications

Light source parameters	
Dimmer:	0-100% 16Bit mechanic
Light Source:	LED19x20W RGBLAC color mixing
Beam Lux:	18000 lux @3m
Zoom Angle:	10~65 degrees
CRI:	72
Strobe:	Flash rate 0-25HZ
Colour temperature output:	L/4000±500
Dimmer:	0-100% Linear dimmer
Security System	
Safety Item	Over current and voltage protection
Degree Of Protection	IP20
Operating Temperature	-20℃~45℃
Interface And Control System	
Control Interface	DMX In/Out
DMX Channel	21/41CH
Power Interface	PowerCon
Noise (LED Full on):	44 dB@1m
Noise (moving head):	52 dB@1m
Signaling Protocol	DMX512/RDM/Master-Slave/Auto/Sound/CTO
Cooling System	
Cooling Method	Passive heat dissipation
Power Consumption	
Working Power	360W
Power Supply:	600W AC100V ~ 240V / 50 ~ 60Hz
Physical Parameters	
Pan&Tilt :	540° /195°
Material:	High temperature resistant and flame retardant plastic housing
Product Size	34.5*30*18.5 cm
Product Weight	8kg
Package Size:	50x37x26cm
Package Weight	10.05kg

7-Maintenance and cleaning

It is absolutely essential that the fixture is kept clean and that dust, dirt and smoke-fluid residues must not build up on or within the fixture. Otherwise, the fixture's light-output will be significantly reduced. Regular cleaning will not only ensure the maximum light-output, but will also allow the fixture to function reliably throughout its life.

A soft lint-free cloth moistened with any good glass cleaning fluid is recommended, under no circumstances should alcohol or solvents be used!

DANGER !

Disconnect from the mains before starting any maintenance work

The front objective lens will require weekly cleaning as smoke-fluid tends to building up residues, reducing the light-output very quickly. The cooling-fans should be cleaned monthly.

The interior of the fixture should be cleaned at least annually using a vacuum-cleaner or an air-jet.

Remove dust and dirt from the fans and cooling vents using a soft brush and vacuum-cleaner.

Important! Check the air filters periodically and clean before they become clogged!

Clean two air filters placed in the fixture's covers and two in the fixture base. Use a vacuum cleaner, compressed air or you can wash them and put back dry.

8-Replacing the fuse.

Before replacing the fuse, unplug mains lead.

1. Remove the fuse holder on the rear panel of the base with a fitting screwdriver from the housing(anti-clockwise).

2. Remove the old fuse from the fuse holder.

3. Install the new fuse in the fuse holder (only the same type and rating).

4. Replace the fuse holder in the housing and fix it.

Checking plastic parts of the fixture.

The plastic parts of the fixture should be checked for damages and beginning cracks at least every two months.

In addition, the plastic part of the front lens has to be checked mechanically (by means of movement by the plastic part) if it is firmly fastened to the fixture. If hint of a crack is found on some plastic part, do not use the fixture until the damaged part will be replaced.

Cracks or another damages of the plastic parts can be caused by the fixture transportation or manipulation and also ageing process may influence plastic materials.

This checking is necessary for both fixed installations and preparing fixtures for renting. Any free moving parts inside of the fixture head, cracked plastic or any plastic part of front lens not sitting properly in place need to be immediately replaced.

9-Control menu



- [←] used to move back to the previous screen or enter menu;
- [→] Flip the display screen;
- [↑] used to move up on the previous page;
- [↓] used to move down on the next page;
- [ENTER] used to save adjusted values;
- [Service Port] Can connect to Type-C interface to supply power to the display screen, enabling quick setting of lighting parameters;

10-Control menu map

Menu	Sublevel menu		Three menu / parameters
1.Dmx Address	001 - 512		Add more channels per time
2.Fixture	1.Dmx Mode		2ICH / 4ICH
	2.Run Mode		DMX / Host / Sound
	3.Pan Invert		Close / Open
	4.TIH Invert		Close / Open
	5.Fan Control		Quiet / Low / Normal/ High
	6.Dim Fast		Close / Open
	7.No DMX State		Clear / Keep
	8.Sound Sens		1 - 100
3.Manual	1.Pan	000-255	Sort according to the corresponding DMX channel order.
	2.TIH	000-255	
	3.P/T Speed	000-255	
	4.Dimmer	000-255	
	5.Strobe	000-255	
	*****	*****	
4.Information	1.Time		1.Current Time
			2.Total Time
			3.Power Count
	2.Sensor		1.Pan
			2.TIH
			3.Focus
5.Factory			4.Temp
	3.Temperature		1.Head Temp
	4.Software Version		1.Panel
	1.Password		000-255
	2.Pan		000-255
	3.TIH		000-255
	4.Focus		000-255
	5.Red		000-255
	6.Green		000-255
	7.Blue		000-255
	8.Lemon		000-255
	9.Amber		000-255
	10.cyan		000-255
	11.Red 1		000-255
	12.Green 1		000-255
	13.Blue 1		000-255
	14.Lemon 1		000-255

	15.Amber 1	000-255
	16.cyan 1	000-255
	17.Red 2	000-255
	18.Green 2	000-255
	19.Blue 2	000-255
	20.Lemon 2	000-255
	21.Amber 2	000-255
	22.cyan 2	000-255
	23.Red 3	000-255
	24.Green 3	000-255
	25.Blue 3	000-255
	26.Lemon 13	000-255
	27.Amber 3	000-255
	28.cyan 3	000-255
6.Fixture Reset	1.Motor Reset	OFF / Run
	2.Factory	OFF / Run
7.Display	1.Language	CH / EN
	2.Display Flip	No / Yes
	3.Display Mode	60s / Show

11-DMX512 mode

Enter the **2.Fixture** mode, select **2.Run Mode**, press the ENTER button to confirm, use the ↑ ↓ buttons to run DMX mode.

12-DMX address code

Select the **1.Dmx Address**, press the OK button to confirm, the current DMX address will be displayed on the display. Use the ↑ ↓ button to select the address 001-512, and press the OK button to save. Press the ← button to return to the previous menu or wait 30 seconds to

automatically exit the menu mode.

13-DMX last state

Select the last state of DMX, press the OK button to confirm, the current mode will be displayed on the display, select by the ↑ ↓ button: standby (the fixture will enter standby mode when the DMX signal stops), hold (the fixture will keep the last when the DMX signal stops the machine) State) or manual (after selecting this mode, the machine will automatically read the parameters in the "manual mode" mode for operation), press the OK button to save. Press the ← button to return to the previous menu or wait 30 seconds to automatically exit the menu mode.

14-Observe the DMX channel value

Select to observe the DMX channel value, press the OK button to confirm, the current channel and its value will be displayed on the screen. Use the ↑ ↓ button to view other channel values. Press the ← button to return to the previous menu or wait 30 seconds to automatically exit the menu mode.

15-Auto mode and Sound control mode

Enter the **2.Fixture - 2.Run Mode** mode, select **Host** or **Sound**, press the OK button to confirm, the current mode will be displayed on the display, press the OK button to run mode. wait 30 seconds to automatically exit the menu mode.

16-Pan and Tilt movement reverse

Select **2.Fixture - 3.Pan Invert** or **4.Tilt Invert** press the OK button to confirm, the current mode will be displayed on the display, and use the ↑ ↓ button to select: **Close / Open**, press the OK button to save. Press the ← button to return to the previous menu or wait 30 seconds to automatically exit the menu mode.

17-DMX Channel

DMX Channel Summary-41 Channels Mode

Channel	Value	Function	
CH1	Pan	0-255	0-540 degrees
CH2	Pan fine	0-255	16 bit pan
CH3	Tilt	0-255	0-195 degrees

CH4	Tilt fine	0-255	16 bit tilt
CH5	P/T Speed	0-255	Pan and Tilt Speed from fast to slow
CH6	Total Dim	0-255	Linear dimming occurs from dark to light
CH7	Strobe	0 - 3	Off
		4 - 103	Strobe speeds from slow to fast
		104 - 107	Light up
		108 - 207	Strobe speeds from slow to fast
		208 - 212	Light up
		213 - 251	Strobe
		252 - 255	Light up
CH8	R Dim	0-255	Red dim
CH9	G Dim	0-255	Green dim
CH10	B Dim	0-255	Blue dim
CH11	L Dim	0-255	Lemon dim
CH12	A Dim	0-255	Amber dim
CH13	C Dim	0-255	Cyan dim
CH14	Zoom	0-255	Angle is modulated by small to large linearly
CH15	Built-In Color	0-9	None
		10-19	Red
		20-29	Green
		30-39	Blue
		40-49	Lemon
		50-59	Yellow
		60-69	Purple
		70-79	Sky Blue
		80-89	Ivory Lemon
		90-99	Siena Color
		100-109	Cinnamon
		110-119	Orange
		120-129	Scarlet
		130-139	Cherry Red
		140-149	Raspberry Red
		150-159	Lavender
		160-169	Magenta
		170-179	Grape Purple
		180-189	Bright Purple
		190-199	Egyptian Blue
		200-209	Bright Blue
		210-219	Just Blue
		220-229	Light Blue
		230-239	Electric Blue
		240-249	Sea Blue
		250-255	Light Blue
CH16	Function	0-80	None
		81-90	Automatic Mode, Speed From Fast To Slow

		91-100	Audio Mode
		101-110	Non-Functional
		111-120	Horizontal Reverse: Open
		121-130	Horizontal Reversal: Close
		131-140	Vertical Reverse: Open
		141-150	Vertical Reverse: Close
		151-160	Reset All Motors
		161-255	None
CH17	Ring Dimmer	0-255	Brightness changes from dark to bright
CH18	Ring Strobe	0 - 49	On
		50 - 200	Synchronous strobe
		201 - 210	On
		211 - 255	Random flicker
CH19	Ring Red	0-255	Ring Red color from dark to bright
CH20	Ring Green	0-255	Ring Green color from dark to bright
CH21	Ring Blue	0-255	Ring Blue color from dark to bright
CH22	Ring Effect	0 - 2	None
		3-5	Ring Effect 1
		6-8	Ring Effect 2
		9-11	Ring Effect 3
		--- ---	--- ---
		216-218	Ring Effect 72
		219-255	Ring Effect 73
CH23	Ring Speed	0-255	Ring Effect seed
CH24	Red 1	0-255	Red 1 color from dark to bright
CH25	Green 1	0-255	Green 1 color from dark to bright
CH26	Blue 1	0-255	Blue 1 color from dark to bright
CH27	Lemon 1	0-255	Lemon 1 color from dark to bright
CH28	Amber 1	0-255	Amber 1 color from dark to bright
CH29	Cyan 1	0-255	Cyan 1 color from dark to bright
CH30	Red 2	0-255	Red 2 color from dark to bright
CH31	Green 2	0-255	Green 2 color from dark to bright
CH32	Blue 2	0-255	Blue 2 color from dark to bright
CH33	Lemon 2	0-255	Lemon 2 color from dark to bright
CH34	Amber 2	0-255	Amber 2 color from dark to bright
CH35	Cyan 2	0-255	Cyan 2 color from dark to bright
CH36	Red 3	0-255	Red 3 color from dark to bright
CH37	Green 3	0-255	Green 3 color from dark to bright
CH38	Blue 3	0-255	Blue 3 color from dark to bright
CH39	Lemon 3	0-255	Lemon 3 color from dark to bright
CH40	Amber 3	0-255	Amber 3 color from dark to bright
CH41	Cyan 3	0-255	Cyan 3 color from dark to bright

DMX Channel Summary-21 Channels Mode

Channel	Value	Function	
CH1	Pan	0-255	0-540 degrees
CH2	Tilt	0-255	0-195 degrees
CH3	P/T Speed	0-255	Pan and tilt Speed from fast to slow
CH4	Total Dim	0-255	Linear dimming occurs from dark to light
CH5	Strobe	0 - 3	Off
		4 - 103	Strobe speeds from slow to fast
		104 - 107	Light up
		108 - 207	Strobe speeds from slow to fast
		208 - 212	Light up
		213 - 251	Random strobing
		252 - 255	Light up
CH6	R Dim	0-255	Red dim
CH7	G Dim	0-255	Green dim
CH8	B Dim	0-255	Blue dim
CH9	L Dim	0-255	Lemon dim
CH10	A Dim	0-255	Amber dim
CH11	C Dim	0-255	Cyan dim
CH12	Zoom	0-255	Angle is modulated by small to large linearly
CH13	Built-in Color	0-9	None
		10-19	Red
		20-29	Green
		30-39	Blue
		40-49	Lemon
		50-59	Yellow
		60-69	Purple
		70-79	Sky Blue
		80-89	Ivory Lemon
		90-99	Siena Color
		100-109	Cinnamon
		110-119	Orange
		120-129	Scarlet
		130-139	Cherry Red
		140-149	Raspberry Red
		150-159	Lavender
		160-169	Magenta
		170-179	Grape Purple
		180-189	Bright Purple

CH14	Function	190-199	Egyptian Blue
		200-209	Bright Blue
		210-219	Just Blue
		220-229	Light Blue
		230-239	Electric Blue
		240-249	Sea Blue
		250-255	Light Blue
		0-80	None
		81-90	Automatic Mode, Speed From Fast To Slow
		91-100	Audio Mode
CH15	Ring Dimmer	101-110	Non-Functional
		111-120	Horizontal Reverse: Open
CH16	Ring Strobe	121-130	Horizontal Reverse: Close
		131-140	Vertical Reverse: Open
		141-150	Vertical Reverse: Close
		151-160	Reset All Motors
		161-255	None
CH17	Ring Red	0-255	Brightness changes from dark to bright
		0 - 49	On
		50 - 200	Synchronous strobe
		201 - 210	On
CH18	Ring Green	211 - 255	Random flicker
CH19	Ring Blue	0-255	Ring Red color from dark to bright
CH20	Ring Effect	0-255	Ring Green color from dark to bright
		0 - 2	None
		3-5	Ring Effect 1
		6-8	Ring Effect 2
		9-11	Ring Effect 3
		...	...
		216-218	Ring Effect 72
CH21	Ring Speed	219-255	Ring Effect 73
		0-255	Ring Effect seed