

LT6

USER MANUAL

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1.Safety Information



WARNING!Before carrying out any operations with the unit,carefully read this instruction manual and keep it with care for future reference, It contains important information about the installation.user and maintenance of the unit.

General instruction

- The products referred to in this manual conform to the European Community Directives and are therefore marked with CE.
- The unit is supplied with hazardous network voltage (230V~). Service should be undertaken by skilled personnel only. Never make any modifications on the unit not described in this instruction manual, otherwise you will risk an electric shock.
- Connection must be made to power supply system fitted with efficient earthing (Class I appliance according to standard EN60598-1) .It is recommended to protect the supply lines of the units from indirect contact and/or shorting to earth by using appropriately sized residual current devices.
- The connection to the main network of electric distribution must be carried out by a qualified electrical installer. Check that the main frequency and voltage correspond to those for which the unit is designed as given on the electrical data label.
- This unit is not for home use, only professional applications.
- Never use the fixture under the following conditions:
 - · in places subject to vibrations or bumps;
 - in place with a temperature of over 40°C.
- Make certain that no Flammable liquids, water or metal objects enter the fixture.
- Do not dismantle or modify the fixture.
- All work must always be carried out by qualified technical personnel. Contact the nearest sales point for an inspection or contact the manufacturer directly.
- If the unit is to be put out of operation definitively, ensure you dispose of the unit responsibly in accordance with local recycling laws.

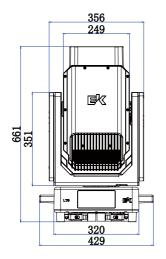
Warnings and installation precautions

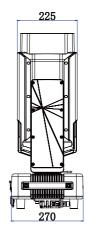
- If this device will be operated in any way different to the one described in this manual, it may suffer damage and the guarantee becomes void. Furthermore, any operation may lead to dangers like short circuit, burns, electric shock etc.
- Before starting any maintenance work or cleaning the fixture, cut off power from the main supply.
- Always additionally secure the fixture with the safety rope. When carrying out any work, always comply scrupulously with all the regulations (particularly regarding safety) currently in force in the country in which the fixture's being used.
- Install the fixture in a well ventilated place.
- Keep any Flammable materials at a safe distance from the fixture.
- Shields, lenses or ultraviolet screens shall be changed if they have become damaged to such an extent that their effectiveness is impaired.
- The lamp (LED) shall be changed if it has become damaged or thermally deformed.
- Never look directly at the light beam. Please note that fast changes in lighting, e.g. flashing light, may trigger epileptic seizures in photosensitive persons or persons with epilepsy.
- Do not touch the product's housing when operating because it may be very hot.

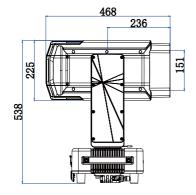




2DIMENSION

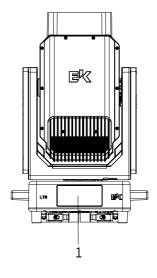


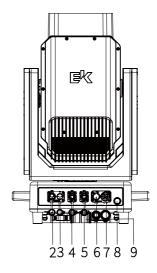






3. CONTROL





- 1.Control panel
- 2.5pin(or 3pin) DMX In
- 3.5pin(or 3pin) DMX Out
- 4/5. Artnet

- 6.Power In
- 7.Power Out
- 8.breather valve
- 9.Omega bracket with clamp

Menu Displa y

Function	Illustration	Description	Function
MODE (Left)	Menu Option	Enter Menu	Menu Operation
UP	UP	Scroll Up	Increase Numberic Value
DOWN	DOWN	Scroll Down	Decrease Numberic Value
ENTER (Right)	Confirm	Confirm	Save Setting

4. FIXTURE SPECIFICATION

4.1 TECHNICAL DATASHEET

LT6 datasheet					
PHOTOMETRICS					
Light Source	600W LED module				
Colour Temperature	6000K-6200K				
Output	ALL:28000Lm				
CCI	0.1M~0.1G				
CRI	>70				
R9	>-25				
DUV	0.004				
TM-30-15rg/rf	95/67				
TLCI	>40				
LED Life	30000H				
Beam angle	3.3° -52°				
KEY FEATURES					
PAN	540°				
TILT	270°				
Color system	CW+CMY/CTO+Color Wheel(6+open)				
Gobo System	Rotating gobo wheel (7 gobos+open)				
Fixed gobo	Fixed gobo wheel (9 gobos+open)				
Animation	Animation wheel with variable speed				
Framing System	Single blade \pm 35 $^{\circ}$, Whole rotation angle \pm 60 $^{\circ}$				
Focus	1° +5° 0 ∼ 100% linear frost				
Strobe	1~30HZ				
Dimming	0~100% linear dimming,4 dimming curves,22Bit				
Prism	Bi-directional adjustable-speed 4-facet+4 linear prism				
POWER					
Mains	100-240V,50/60Hz				
Consumption	230V@800W				
Power connections	Seetronic power in/out,linking up to 2pcs				
Power Factor	230V@0.98				
Ambient	-10 ∼ 45°C				
Power supply	Input voltage AC 100 ~ 240VAC(50/60HZ)1000W				
PHYSICAL					
Dimension	429*270*635mm(Omega bracket with clamp) 429*270*661mm(Intergated-Foldable-Clamp)				
Weight	Fixture:29.3kg				
IP Rating	IP66				



TECHNICAL DATASHEET

Cooling	Heat sink cooling system with low noise fan
Housing	Magnesium alloy, matte black finish
Installation	Sit-flat floor mounting, side hanging and flown mounting
CONTROL	
Protocol	DMX512/RDM/sACN/Artnet/Bluetooth/APP/NFC
DMX channel	37CH
Data connections	3pin (or 5pin) XLR In/Out, linking up to 32pcs
Display	240RGB*320 2.8-inch TFT display
Built-in programs	YES
Pixel Control	Whole control



4.2 COLOR SYSTEM/GOBO SYSTEM/ANIMATION SYSTEM

COLOR WHEEL

CMY

















ROTATING GOBO















FIXED GOBO





















ANIMATION WHEEL

FRAMING SHUTTER



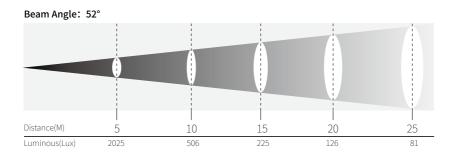


4.3 Photometrics

Distance(M)

Luminous(lux)

Beam Angle: 3.3°





5 FIXTURE SETTING

5.1 MENU FUNCTION

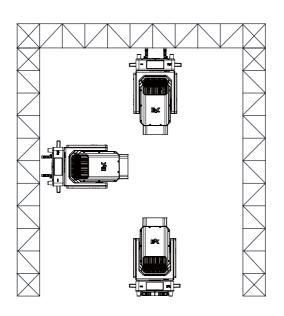
\	Main Menu	Menu level 2	Menu level 3	Menu level 4	Remark	
		DMX Address	1~512		1	
1	DMX Setting	DMX Channel	37CH		37CH	
	1		Artnet			
		Protocol	sACN		Artnet	
		IP Address	xxx.xxx.xxx		/	
		IP Mask	xxx.xxx.xxx		1	
2	Ethernet Setting		0-65535 (Artnet)			
		Universe	1-65535 (sACN)		0	
			Off			
		Net To DMX	On		Off	
				Off		
			Pan Reverse	On	Off	
				Off		
			Tilt Reverse	On	Off	
				Off		
		Movement Setting	Encoder Pan/Tilt	On	On	
				Off		
			Swap Pan/Tilt	On	Off	
	1			Off		
			Absolute Encoder	On	On	
				Off	1	
				Dimmer 1		
			Dimmer Mode	Dimmer 2	Off	
		Dimmer Setting		Dimmer 3	-	
				Linear	_	
			Dimmer Curve	Square	-	
				Inverse Square	Square	
				S Curve		
			LED Frequency	600Hz	_	
				1200 Hz	-	
				2000 Hz		
3	Settings	LED Setting		4000 Hz	2000 Hz	
				6000 Hz		
				25KHz		
			Auto	ZJKI IZ	_	
			On			
		Fan Mode	Off		Auto	
			Silent			
			All		- ,	
		D+ C -++i			1,	
		Reset Setting	P/T		1,	
			Head	Off	/	
			Back Light	Off	Off	
				On		
			Elia Diant	No	No	
			Flip Display	Yes	- No	
		D: 1 0 "		Auto	_	
		Display Setting	Warn Cue	Off	On	
				On	+	
			Key Lock	No	Yes	
				Yes	res	
			Temperature Unit	C		
			1	F		

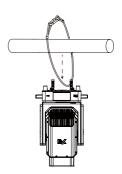
5.2 MENU FUNCTION

	I		1		1/
		Channel	According to the current		/
		Chamic	channel mode		/
4	TEST		Pan/Tilt		<u> </u>
		AUTO	Head		<u> </u>
			All		
	1			Pan Offset	128
				Tilt Offset	128
				Cyan Offset	128
				Magenta Offset	128
				Yellow Offset	128
				CTO Offset	128
				Color Offset	128
				Gobo Offset	128
				RGobo Offset	128
				Gobo2 Offset	128
				4Prism Offset	128
				4RPrism Offset	128
				6 Prism Offset	128
				6RPrism Offset	128
			Calibration	Effect Offset	128
				Focus Offset	128
5	ADVANCED	Access Code		Zoom Offset	128
				Frost1 Offset	128
				Frost2 Offset	128
				Iris Offset	128
				Shutters Rot. Offset	128
				Fr.shutter 1 M1 Offset	128
				Fr.shutter 1 M2 Offset	128
				Fr.shutter 2 M1 Offset	128
				Fr.shutter 2 M2 Offset	128
				Fr.shutter 3 M1 Offset	128
				Fr.shutter 3 M2 Offset	128
				Fr.shutter 4 M1 Offset	128
				Fr.shutter 4 M2 Offset	128
			Et Dt	No	,
			Factory Reset	Yes	l'
			Unload Eirmung	No	,
			Upload Firmware	Yes	′
		System Errors			/
		Time	Fixture Hours	65535H	0
		. mic	Led Hours	65535H	0
			DISP-V1.0	CTR4-MOTOR-V1.0	/
		Version	CTR1-XY-V1.0	CTR5-MOTOR-V1.0	/
6	Information	. 0131011	CTR2-MOTOR-V1.0	CTR6-MOTOR-V1.0	/
			CTR3-MOTOR-V1.0		/
		Temperature	LED1: 40°C		/
		Humidity	25%		/
		Pressure	80kpa		/
		UID:	030F0CC*****		/

6. INSTALLATION AND CONNECTION

6.1.1 NSTALLATION INSTRUCTION



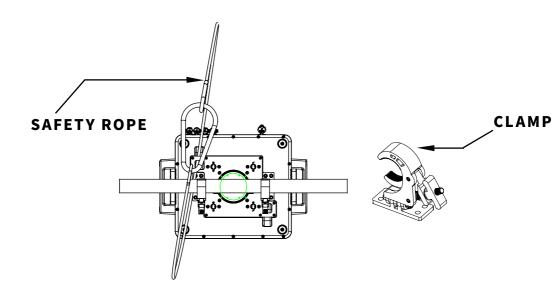


- 1.Professional installation required. Mount away from walkways, seating areas, or unauthorized access.
- 2. Never stand directly beneath the fixture during assembly, disassembly, or maintenance.
- 3. Ensure secure mounting to prevent vibration or slippage during operation.
- 4. The supporting structure must withstand 10x the fixture's weight without deformation. Always use a safety cable rated for 12x the fixture's weight to prevent falls if the clamp fails.
- 5.Operational in two positions: Sit-flat floor mounting and flown mounting.
 6.LT6 is IP66 (indoor & Outdoor use) ,ensuring: Dustproof Prevents significant dust ingress, so that it will not interfere with its normal operation. Waterresistant Protects against water jets from any direction.



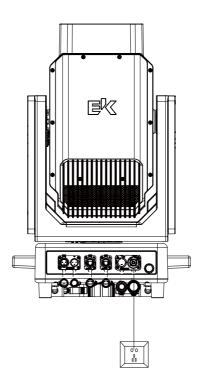
6.1.2FLOWN MOUNTING

- 1. During installation, maintain a minimum distance of 0.5 meters between the fixture and any flammable materials .
- 2. When flown mounting, a safety cable rated for at least 10 times the fixture's weight must be installed.
- 3. For overhead mounting, the supporting structure must have a load capacity of at least 10 times the fixture's weight.
- 4.As shown in the diagram, the safety cable must pass through both the fixture's safety cable eyelet and the mounting structure to ensure a secure connection.





6.2POWER CONNECTION



POWER CONNECTION INSTRUCTION





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Power out Power

POWER CONNECTION INSTRUCTION

Notes: For power reasons, using 1.5mm² power cable can link up to 2 units (230V) maximum.

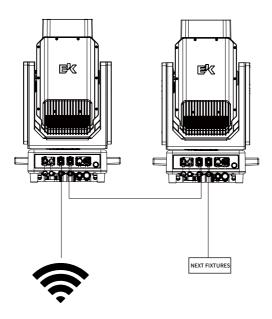


Do not connect more than 2 units with one power cable, or overload the work.

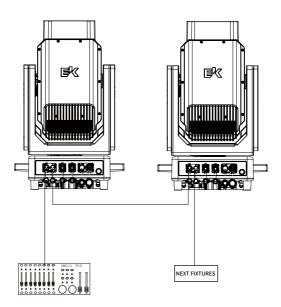
Do not use the power cable if the insulation layer has been damaged, Do not put the power cable on other wires. When the LT6 is not in use or clean, please remove the power cable.

Do not vigorously plug in or drag the power cable.

ARTNET CONNECTION



DMX CONNECTION





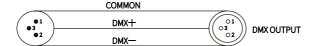
DMX CONNECTION

 $\begin{array}{c|c} & & & & & \\ \hline \text{COMMON} & & & & \\ \hline \text{DMX+} & & & \\ \hline \text{DMX-} & & & \\ \hline \text{PP} & & & & \\ \hline \text{Not Used} & & & \\ \hline \text{Not Used} & & & \\ \hline \end{array}$



 120Ω 1/4 W resistor

DMX INPUT





- To minimize signal errors and prevent signal degradation/interference, connect a 120
 Ω 1/4W resistor between 2 pins and 3 pins at the last fixture's DMX output.
- Use XLR cables to link fixtures connect from the output of one fixture to the input of the next. DMX must be wired in series, not parallel.
- Signal integrity is critical due to DMX512's high speed. Damaged cables, poor solder joints, or loose connections can disrupt transmission and cause system failure.
- The DMX connection is bypassed when a unit loses power to maintain signal continuity.
- Each fixture requires a unique address to receive console commands.
- Always install a terminator at the end of the DMX512 chain to reduce transmission errors.

EXAMPLE OF DMX ADDRESSING

The below table shows an example of starting addresses for four fixtures assuming a first fixture with starting address of 001.

The actual starting addresses will be determined by the operator as needed to match external controller settings

RELATION BETWEEN DMX AND ADDRESS

MODE	ADDRESS	1ST FIXTURE	2nd FIXTURE	3rd FIXTURE	4th FIXTURE
37CH	001-037	001	038	075	112

Follow above method for subsequent fixtures, calculating starting addressed as indicated

6.4.1 DMX CHART

37CH	Channel function	on Value	Functional Description	<u> </u>
1	Pan	000-255	,	1
2	Pan Fine	000-255		i i
3	Tilt	000-255		
4	Tilt Fine	000-255		
		000-010	Close	1
	İ	011-082	Shutter effect slow to fast	1
		083-093	Open	i i
5	Shutter	094-163	Pulse-effect in sequences	
		164-174	Open	
		175-244	Random Shutter effect slow to fast	
		245-255	Open	
6	Dimmer	000-255	Dimmer 0%-100%	
7	Dimmer Fine	000-255	Dimmer Fine	
8	Cyan	000-255	0%-100%	
9	Magenta	000-255	0%-100%	
10	Yellow	000-255	0%-100%	
11	сто	000-255	0%-100%	
		000-010	Open	
		011-019	Open+Color1	
		020-028	Color 1	
		029-037	Color 1 + Color 2	
		038-046	Color 2	
		047-055	Color 2 + Color 3	
		056-064	Color 3	
	Color	065-073	Color 3 + Color 4	
12		074-082	Color 4	
		083-091	Color 4 + Color 5	
		092-100 101-109	Color 5 Color 5 + Color 6	
		110-118	Color 6	
		119-127	Color 6 + OPEN	
		128-190	Fast to Slow(Forward Spin)	
		191-192	Stop (Stop Rotation)	
		193-255	Slow to Fast(Revers Spin)	
		000-008	Open	
		009-017	Gobo1	
		018-026	Gobo2	
		027-035	Gobo3	
		036-044	Gobo4	
		045-053	Gobo5	
		054-062	Gobo6	
		063-071	Gobo7	
13	Gobo1	072-113	Fast to Slow(Revers Spin)	
13	GODOI	114-117	Stop (Stop Rotation)	
		118-159	Slow to Fast(Forward Spin)	
		160-172	Gobo1 Shaking Slow to Fast	
		173-185	Gobo2 Shaking Slow to Fast	
		186-198	Gobo3 Shaking Slow to Fast	
		199-211	Gobo4 Shaking Slow to Fast	
		212-224	Gobo5 Shaking Slow to Fast	
		225-237	Gobo6 Shaking Slow to Fast	
	+	238-255	Gobo7 Shaking Slow to Fast	
		000-127	0 - 540 Position	
14	RGobo1	128-190	Fast to Slow(Forward Spin)	
		191-192	Stop (Stop Rotation)	
	J	193-255	Slow to Fast(Revers Spin)	



6.4.2 DMX CHART

37CH	Channel function	Value	Functional Description		
		000-008	Open		
		009-015	Gobo1		
		016-022	Gobo2		
		023-029	Gobo3		
		030-036	Gobo4		
		037-043	Gobo5		
		044-050	Gobo6		
		051-057	Gobo7	İ	1
		058-064	Gobo8		
		065-071	Gobo9	İ	1
		072-113	Fast to Slow(Revers Spin)		
15	Gobo2	114-117	Stop (Stop Rotation)	İ	i
		118-159	Slow to Fast(Forward Spin)		
		160-170	Gobo1 Shaking Slow to Fast		
		171-180	Gobo2 Shaking Slow to Fast		
		181-191	Gobo3 Shaking Slow to Fast		
		192-201	Gobo4 Shaking Slow to Fast	<u> </u>	1
		202-212	Gobo5 Shaking Slow to Fast		1
		213-222	Gobo6 Shaking Slow to Fast	<u> </u>	1
		223-233	Gobo7 Shaking Slow to Fast		
		234-244	Gobo8 Shaking Slow to Fast	<u> </u>	
		245-255	Gobo9 Shaking Slow to Fast		
		000-127	Prism Excluded		
16	4Prism	128-255	Prism Inserted		
		000-127	0 - 540 Position		
		128-190	Fast to Slow(Forward Spin)	 	1
17	4RPrism	191-192	Stop (Stop Rotation)		
		193-255	Slow to Fast(Revers Spin)	 	1
	+	000-127	Prism Excluded	 	1
18	6Prism	128-255	Prism Inserted	<u> </u>	1
		000-127	0 - 540 Position	 	1
		128-190	Fast to Slow(Forward Spin)		
19	6RPrism	191-192	Stop (Stop Rotation)	 	1
		193-255	Slow to Fast(Revers Spin)	 	1
	Frost1	000-127	Frost1 0->100%	0-127	light frost
20		128-255	Frost2 0->100%	128-255	heavy
	Frost2	120 233	110312 0 1 100 /0	120 233	frost
		000-127	Effect Excluded		
21	Effect	128-255	Effect Inserted		Ì
		000-003	Effect Inserted		1
	DEW .	004-127	Fast to Slow(Forward Spin)		1
22	REffect	128-132	Stop (Stop Rotation)	İ	i
		133-255	Slow to Fast(Revers Spin)		
		000-127	Maximum to Minimum Aperture	1	
		128-131	Maximum Aperture		
	1	132-171	Slow to Fast Pulsation		
23	Iris	172-211	Slow to Fast Pulsation,Fast Opening	1	
	1	212-251	Slow to Fast Pulsation, Fast Closing		
	1	252-255	Maximum Aperture	İ	İ
24	Focus	000-255	,	1	1
25	Focus Fine	000-255		†	İ
26	Zoom	000-255			
27	Zoom Fine	000-255		†	1
20	Framing Shutter 1		Movement from outward to inward		
28	movent				



6.4.3 DMX CHART

37CH	Channel function	Value	Functional Description	T	
		000-127	Swivelling from -25 degrees towards		
	Framing Shutter 1		0 degrees		
29		128	0 degrees		
	Swivetting	129-255	Swivelling from 0 degrees to +25 degrees		
30	Framing Shutter 2 movent	000-255	Movement from outward to inward		
		000-127	Swivelling from -25 degrees towards 0 degrees		
31	Framing Shutter 2 swivelling	128	0 degrees		
	Swivetting	129-255	Swivelling from 0 degrees to +25 degrees		
32	Framing Shutter 3 movent	000-255	Movement from outward to inward		
	Framing Shutter 3	000-127	Swivelling from -25 degrees towards 0 degrees		
33	swivelling	128	0 degrees		
		129-255	Swivelling from 0 degrees to +25 degrees		
34	Framing Shutter 4 movent		Movement from outward to inward		
	Framing Shutter 4	000-127	Swivelling from -25 degrees towards 0 degrees		
35	swivelling	128	0 degrees		
		129-255	Swivelling from 0 degrees to +25 degrees		
	Framing Shutters	000-127	Rotation from left to center		
36	Rotation	128	Center		
		129-255 000-005	Rotation from center to right None		
		006-005	Dimmer Mode Off		
		011-015	Dimmer Mode 1	-	
		016-020	Dimmer Mode 2		
		021-025	Dimmer Mode 3		
		026-030	Dimmer curve Linear		
		031-035	Dimmer curve Exponential		
		036-040	Dimmer curve Logarithmic		
		041-045	Dimmer curve S		
		046-050	Led Frequency=600Hz		
		051-055	Led Frequency=1200Hz		
1		056-060	Led Frequency=2000Hz		
		061-065	Led Frequency=4000Hz		
	L	066-070	Led Frequency=6000Hz		
37	Control	071-075	Led Frequency=25000Hz		
		076-080	Pan Inverse Off		
		081-085 086-090	Pan Inverse On Tilt Inverse Off		
		086-090	Tilt Inverse Oπ Tilt Inverse On	-	
		091-095	Swap PanTilt Off	-	
		101-105	Swap PanTilt On		
		106-110	Auto	+	
		111-115	On	+	
	1	116-120	Off		
		121-125	Silent		
		126-240	Reserve		
		241-245	Head Reset		
	1	246-250	Pan/Tilt Reset		
		251-255	Complete Reset		·



7. ERROR INFORMATION

Make sure the area below the installation place is free from unwanted persons during setup.

- Switch off the unit, unplug the main cable and wait until the unit has cooled down.
- All screws used for installing the device and any of its parts should be tightly fastened and should not be corroded.
- Housings, Fixations and installation spots (ceiling, trusses, suspensions) should be totally free from any deformation
- The main cables must be in impeccable condition and should be replaced immediately even when a small problem is detected.
- It is recommended to clean the front at regular intervals, from impurities caused by dust, smoke, or other particles to ensure that the light is radiated at maximum brightness. For cleaning, disconnect the main plug from the socket. Use a soft, clean cloth moistened with a mild detergent. Then carefully wipe the part dry. For cleaning other housing parts use only a soft, clean cloth. Never use a liquid, it might penetrate the unit and cause damage to it.

TROUBLESHOOTING

Problems	Possible causes	Checks and remedies
Fixture does not light up	No mains supply Dimmer fader set to 0 All color faders set to 0 Faulty LED Faulty LED board	Check the power supply voltage Increase the value of the dimmer channels Increase the value of the color channels Replace the LED board Replace the LED board
General low light intensity	Dirty lens assembly Misaligned lens assembly	Clean the fxture regularly Install lens assembly properly
Fixture does not power up	No power Loose or damaged power cord Faulty internal power supply	Check for power on power outlet Check power cord Replace internal power supply
Fixture does not respond to DMX	Wrong DMX addressing Damaged DMX cables Bouncing signals	Check control panel and unit addressing Check DMX cables Install terminator as suggested

Contact an authorised service centre in case of technical problems that are not reported in the table, or problems cannot be resolved by procedure given in the table



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