KUDUX®
STAGE TECHNOLOGY

PIXEL ZOOM 105

WASH LED



User manual

CE

! Please read the manual before installing and using this lighting
Keep it for future reference

Thank you for purchasing our device.
We make every effort to ensure the best quality of our products and to meet your expectations.

If you have any remarks or comments, please share them with us.

We will be grateful for any suggestions that will help us make products that are even better and devices that satisfy your needs.

R&D Team

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Statement

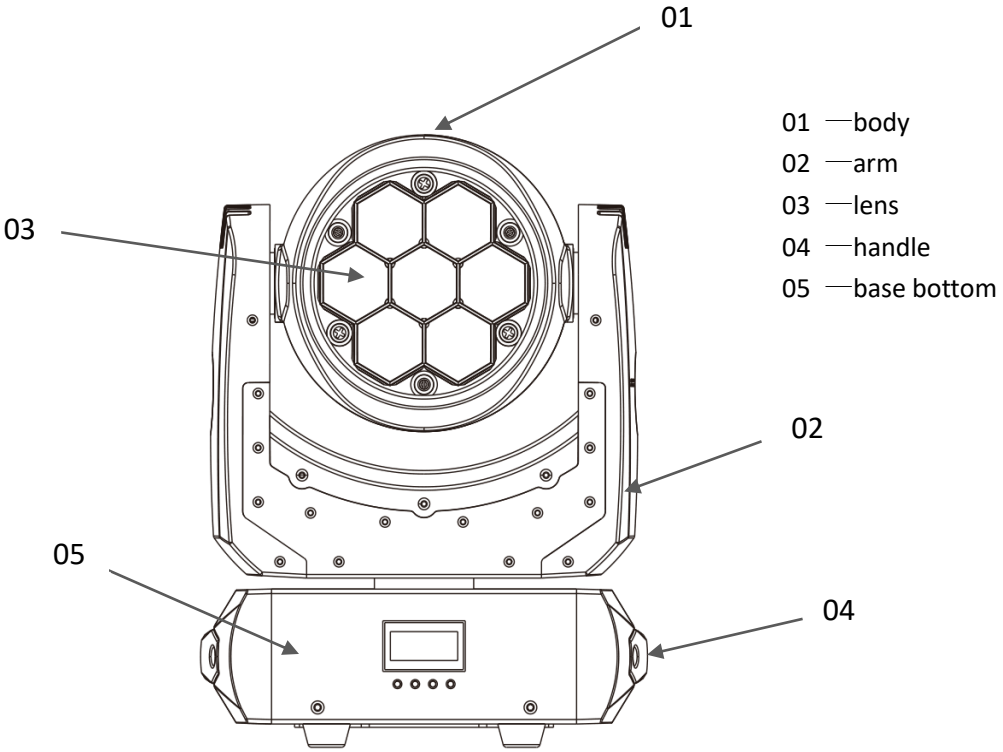
The product is good packing when ship out the factory. All users should strictly abide by the warnings and instructions stated in this manual, any damage and results due to misuse and the neglect of this operating manual will be excluded from the deal responsibility this manual will not informed in additionally if have technical changes.

Production introduces

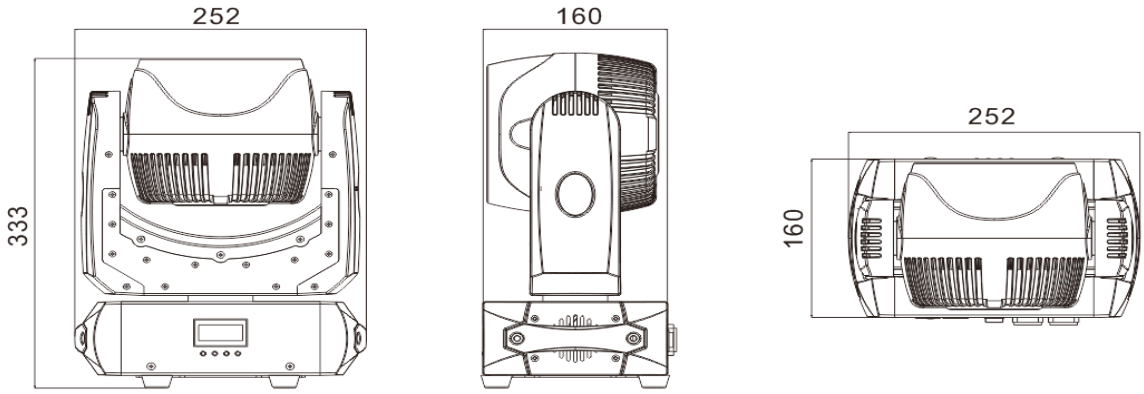
Thank you for choosing this products, this model is the moving head light which is the latest development of the smart, efficient products, beautiful shape, smooth R & D, combined with the advanced technology of today's stage lighting products with international advanced electronic control technology and excellent user-friendly industrial design, fully comply with CE standard, accepted international standard DMX512 signal mode.

This moving head lights, use ceramic luminescent film reflector as a condenser system, coupled with the high-quality optical lens components, broadband voltage, a clear pattern, sharp and uniform output light efficiency. Intelligent LED display module, the English language selection mode, intuitive operating menu, shortcut.

1. Part introduction

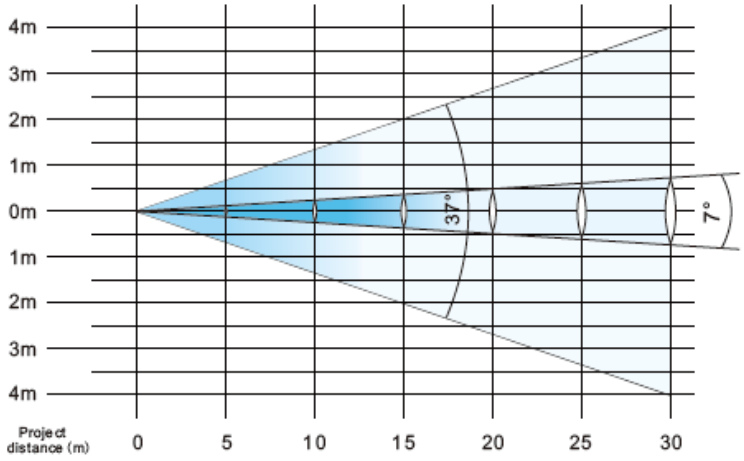


2. Fixture size



3. Luminous diagram

Luminous diagram



Lumen

DISTANCE	10m		20m		30m	
ILLUMINATION	629	67	157	17	70	7
SPOT SIZE	Φ1. 24m	Φ6. 53m zoom	Φ2. 48m	Φ13. 07m zoom	Φ3. 71m	Φ19. 60m zoom

4. Safety information

Safety warning:

This product is only suitable for professional use, and does not apply to security for other purposes. After you got the lights, please check the package whether have any damage caused by transportation. If there is any damage, do not use this fixture, and please contact the dealer or manufacturer as soon as possible. This product is only suitable for indoor, IP20 protection class. Lamps should be kept dry to avoid Moisture, overheating or dusty environment. Prevent lamps meet water or any other liquid. The use of this product should pay attention to: fire, heat, electric shock, ultraviolet radiation, the lamp to explode or shedding caused serious or fatal injury. Need to read the instructions before use energized or installing. Follow through the operation of security methods and pay attention to the warning signs on the specification and equipment. If you have any problem for how to safely operate the equipment. Please contact your dealer.

4.1. Anti-high temperature

ta =40°C

Please don't use the equipment if the temperature above 40℃



4.2. To prevent falling wounding

When Hang the fixture, please must verify that the facilities to be able to withstand the weight of the lamps at least 10 times more.

Please make sure the Mounting hardware is strong enough no any damage, and insurance for the safety rope as auxiliary security fixed in other facilities will need to verify before installation. Installing or removing the equipment, to make the pulley below the work location

4.3. UV protection

Prohibit straight viewpoint with exposed bulbs to avoid UV damage to the eyes;

Do not use the equipment without the lens screen and the lid;

The lens and the light head covers should be timely replaced if any damage to rupture

4.4. Prevention of electric shock



The electrical connection must only be carried out with corresponding qualifications;

Before installing, make sure you use the power voltage lamps must comply with the identified power, voltage and have an overload or leakage protection;

Each lamp must be properly grounded, installed in accordance with the relevant standards

Cut off the power when stall or replace the lamp and the fuse

Prohibit the use of a lightning storm or wet environment.

4.5. To prevent burning or fire

- The fixture can't be mounted directly on the surface of ordinary combustible material.
- The equipment must be installed away from inflammable and explosive materials.
- The highest temperature is 40 ° C when the equipment is in stable state.
- The equipment cannot have an obstacle at least in the range of 0.5 meters.
- Do not replace the non-original parts.



5. Package

5.1. Attachment

Moving head is packed with fly-case of one in one, two in one, or carton box.
Attach follow accessory.

CONTENT	QUANTITY
USER MANUAL	1 piece
CLAMP (option)	2 pcs
SIGNAL CABLE	1 piece

5.2. Transport protect lock

To protect the light, there can be a protect lock; During the transport, the lock will have closed keeping the item in safety state.

5.3. About pack stage

- Before packed, make sure power is off and wait for at least 20 minutes for cooling down.
- Before cleaning the fixture, make sure X, Y axis protect lock closed.
- After packed by plastic bag, high-lift the fixture with two handles besides the product. put the product into the fly-case up-side-down.
- After packed the product, put the accessory into the accessory case, then closed and lock the fly-case.
- Fly-case only up stacked two layers. Prohibited upside down
- When packed with carton box, equipment should be put into the foam first, then set into a carton, pay attention to the vertical position.

5.4. Unpacking

Note: Before unpacking check the damage is whether due to the transportation or not, if you find any such damage, please do not use this item, and contact with the dealer or manufacturer as soon as possible.

- Open the fly-case, and discover the inside plastic bag.
- High-lift the product by two handles beside the bottom base and move it out.
- Before power on, make sure you have opened the X, Y axis lock!

6. Install standard

6.1. Install lock

Moving head can be placed on the stage or mounted in an arbitrary direction of the truss.
Two fast locks system could fix the item easily.

6.2. Equipment fixed

- Before installation must verify the fast lock is keep in good state and can withstand at least 10 times the weight of product. Verify that the building can withstand at least 10 times of

the total weight of the product and accessory equipment's.

- Fix the hang fixture into the hole, which located on the base of the price.
- Seize handle of fasteners, clockwise rotate 1/4 turn and lock. Installed other one fastener in the same method.
- Using the safety cable which can withstand 10 times the weight of the equipment.
- Make sure the X, Y protect locks are opened, verify that within 3 meters there is no combustibles.

WARNING !

Fixture must use two fixing devices, and make sure the fixing device have locked! And only fully clockwise rotate 90 ° can lock the hang fixture! Do remember plus a safety rope, and do not connect the safety rope to plastic handle. It should be connected to the hole on the base!

6.3. Fixture connects

Attention! One product only can accept one input one output.

Moving head DMX cable include 3 contact pins:

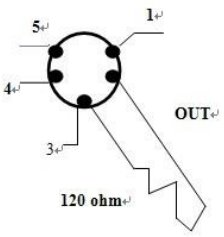
Pin 1, FOR GROUND; Pin 2 connected to the negative polarity signal; The pin 3 connected to the positive polarity signal.

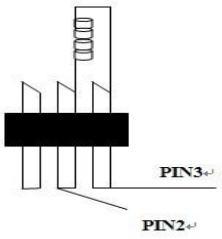
DMX512 cable must use the professional shielded twisted pair cable; standard loudspeaker cable is not reliable to control the long-range data. 24AWG cable is suitable for more than 300 meters long-distance signal transmission and must add\ DMX 512 signal amplifier.

Do not use two outputs to separate the connection, if separate a continuous connection to branch, DMX512 splitter is necessary.

If use the DMX512 splitter. At first connect DMX512 Splitter input terminal to controller, and then connected from the splitter output terminal to next device.

Do as above guide to connect other device, and finally coupled with terminal insertion as following:





7. Power supply

7.1. Voltage, power, fuse specification

Input Voltage	Total Power	Frequency
110~240V	180 W	50/60HZ

7.2. Power protect

The equipment must be operated by professionals. Make sure that the voltage of power supply must be comply with the voltage identified on the lamp, and must have an overload or leakage electrical protection.

ATTENTION!



Factory has equipped the standard 3 pin plug socket. Connect the power supply as below table.
If lamp cable is damaged, replacement should be operated by factory or qualified staff.
Any question, please contact professionals or talk to a qualified electrician.

Live wire(L)	Null(N)	Ground wire	
RED	BLUE	Yellow +Green	

8. Control panel menu operate

LCD DISPLAY CONTENTS				
	Main Menu		Function-option	Function Summary
1	Address		001-512	DMX address code
2	Run Mod		Slave	Slave mode
			Auto	Automatic operation mode
			Sond	Voice control operation mode
3	ChanMod		14CH	14CH
			25CH	25CH
			42CH	42CH
4	Display	LigtOff	Ligh	backlight keeps on
			1Min	backlight off in 1 minutes
			2MIn	backlight off in 2 minutes
			3Min	backlight off in 3 minutes
		MenuBak	Off	close menu to return automatically
			1Min	The menu returns in 1 minute
			2Min	The menu returns in 2 minute
			3Min	The menu returns in 3 minute
		LigtFlh	Off	Closing backlight flashing
			On	open backlight flashing
5	Tool	L Brand	CN	Cree led
			OSM	Cree led
		Balance	WhiteSW	White balance switch
			Red (50—255)	The white balance red

			Green(50—255)	The white balance of green
			Blue (50—255)	The white balance blue
			White(50—255)	white balance
		SundHig	0-16	Acoustic sensitivity
		DmxClea	Off	No signal data holding
			On	No signal data reset
		DefCfig	Off	Keep current
			On	Reset to default
6	PT Sett	Pan Cal	0-255	Pan Scan Normal
		TiltCal	0-255	Tilt Scan Normal
		Pan Rev	Off	Pan Scan Reverse
			On	Pan reverse open
		TiltRev	Off	Tilt Scan Reverse
			On	Tilt reverse open
		PT Opto	Off	Pan/Tilt optical sensor testing off
			On	Pan/Tilt optical sensor testing on
7	Manual	Strobe	0-255	strobe
		Dimmer		dimming
		Pan		horizontal rotation
		Pan Fin		Horizontal vernier
		Tilt		vertical turn
		TiltFin		Vertical turning fine adjustment
		Func		Faction set
		ColourM		Color temperature/color
		Red		Red
		Green		Green
		Blue		Blue
		White		white
		ColourF		color gradient
		Gobo		LED Graph
		ShapeSL		Built-in effect
		ShapeSP		Effect of speed
		ShapeFD		Effects of fading
		ShapeR		Effect of red
		ShapeG		Effect of green
		ShapeB		Effect of blue
		ShapeW		Effect of white
		ShapeD		Effect of dimming
		BlackD		Effect of backlight
		Reserv		reserved
8	Info	RunTime	0000-9999	Lamp service time
		DisVers	Vx.xx	Version of display software

		M1 Vers	Vx.xx	Lamp bead drive software version
		Temp	0-125	Lamp bead aluminum substrate temperature

9. DMX Channels

14CH	25CH	42CH	Function	DMX value	Description
1	1	1	Strobe	0 -19	Strobe OFF
				20 -24	Strobe ON
				25 -64	Strobe Fast-Slow
				65 -69	Strobe ON
				70 -84	Slow input Strobe Fast-Slow
				85 -89	Strobe ON
				90 -104	Slow output Strobe Fast-Slow
				105-109	Strobe ON
				110-124	Random Strobe Fast-Slow
				125-129	Strobe ON
				130-144	Random Slow input Strobe Fast-Slow
				145-149	Strobe ON
				150-164	Random Slow output Strobe Fast-Slow
				165-169	Strobe ON
				170-184	Pulse Strobe Fast-Slow
				185-189	Strobe ON
				190-204	Random Pulse Strobe Fast-Slow
				205-209	Strobe ON
				210-224	Strobe Fast-Slow
				225-229	Strobe ON
				230-244	Exposure Strobe Fast-Slow
				245-255	Strobe ON
2	2	2	Dimmer	0 -255	Linear Dimmer Dark-Bright
3	3	3	Focus	0 -255	Linear Focus
4	4	4	Pan Rotation	0 -255	0~540 degree
5	5	5	Pan Fine	0 -255	Pan Fine
6	6	6	Tilt Rotation	0 -255	0~270 degree
7	7	7	Tilt Fine	0 -255	Tilt Fine
8	8	8	Function set	0 -9	No function
				10 -14	Whole light Reset
				15 -39	No function
				40 -44	XY Normal mode

				45 -49	XY Fast mode
				50 -54	XY Slow mode
				55-255	No function
9	9	9	Color temperature or color	0 -9	No function
				10 -14	Moroccan Pink
				15 -19	Pink
				20 -24	Special rose Pink
				25 -29	Follies Pink
				30 -34	Fuchsia Pink
				35 -39	Surprise Pink
				40 -44	Congo Blue
				45 -49	Tokyo Blue
				50 -54	Deep Blue
				55 -59	Just Blue
				60 -64	Medium Blue
				65 -69	Double CT Blue
				70 -74	State Blue
				75 -79	Full CT Blue
				80 -84	Half CT Blue
				85 -89	Steel Blue
				90 -94	Lighter Blue
				95 -99	Light Blue
				100-104	Medium Blue Green
				105-109	Dark Green
				110-114	Primary Green
				115-119	Moss Green
				120-124	Fern Green
				125-129	JAS Green
				130-134	Lime Green
				135-139	Spring Yellow
				140-144	Deep Amber
				145-149	Chrome Orange
				150-154	Orange
				155-159	Gold Amber
				160-164	Millennium Gold
				165-169	Deep Golden Amber
				170-174	Flame Red
				115-179	
				180-201	Color clockwise run from fast to slow

				202-207	Stop
				208-229	Color anticlockwise run from slow to fast
				230-234	No function
				235-249	Random color Fast-Slow
				250-255	No function
10	10	10	Red beam	0-255	Red Dimmer Dark-Bright
11	11	11	Green beam	0-255	Green Dimmer Dark-Bright
12	12	12	Blue beam	0-255	blue dark - bright
13	13	13	White beam	0-255	white dark- bright
14	14	14	Color slow change	0 -7	--F82
				8 -39	Red to Yellow
				40 -71	Yellow to Green
				72 -103	Green to Cyan
				104-135	Cyan to Blue
				136-167	Blue to Magenta
				168-199	Magenta to Red
				200-231	Red to White
				232-255	Color change slow - fast
	15		LED gobo	0 -4	-F91
				5 -9	Gobo 1
				10 -14	Gobo 2
				15 -19	Gobo 3
				20 -24	Gobo 4
				…	…
				185 -189	Gobo 37
				190 -194	Gobo 38
				195 -199	Gobo 39
				200 -204	Gobo 40
				205 -224	Gobo clockwise run from fast to slow
				225 -234	Stop
				235 -255	Gobo anticlockwise run from slow to fast
	16		Built-in effects	0 -4	No function
				5 -19	LED built-in effect1
				20 -39	LED built-in effect2
				40 -59	LED built-in effect3
				60 -79	LED built-in effect4
				…	…
				150-169	LED built-in effect7
				160-179	LED built-in effect8

				180-199	LED built-in effect9
				200-219	LED built-in effect10
				220-255	Switch Auto. after 1 minute
	17		Effect speed	0 -255	LED built-in effect speed Slow-Fast
	18		Effect slow input	0 -255	LED built-in effects Gradient Overlay
	19		Effect red	0 -255	Red Dimmer Dark-Bright
	20		Effect green	0 -255	Green Dimmer Dark-Bright
	21		Effect blue	0 -255	Blue Dimmer Dark-Bright
	22		Effect white	0 -255	White Dimmer Dark-Bright
	23		Effect Dimmer	0 -255	Dimmer Dark-Bright
	24		Effect backlight	0 -255	Dimmer Dark-Bright
	25		Reserve	0 -255	
		15	R1Dimmer	0 -255	R1Dimmer Dark-Bright
		16	G1Dimmer	0 -255	G1Dimmer Dark-Bright
		17	B1Dimmer	0 -255	B1Dimmer Dark-Bright
		18	W1Dimmer	0 -255	W1Dimmer Dark-Bright
		…	…	…	
		38	R7Dimmer	0 -255	R7Dimmer Dark-Bright
		39	G7Dimmer	0 -255	G7Dimmer Dark-Bright
		40	G7Dimmer	0 -255	G7Dimmer Dark-Bright
		42	W7Dimmer	0 -255	W7Dimmer Dark-Bright

10. Clear and maintenance

Warning: Please make sure cut off the power before open the covers.



(Kind Remind: Non-Professional don't do this)

1. Cut off the power supply, cool down the lamp and open the covers.
2. Using vacuum or pressure blows gently blow any dust and floating structures.

11. Specification

- Channels mode 10/14 CH
- Lamp: 7*15W RGBW 4in1 LED TIANXIN
- Power: 110-240V,50/60Hz
- Total power: 180W
- Display: LCD screen display, can reverse 180°
- Lens: French lens, 8 degree

- Zoom angel : 7.9-38°
- Dimmer : 0-100% linear adjustment
- Pan : 540° 8Bit/16Bit
- Tilt : 270° 8Bit/16Bit
- 3-phase motor for Pan/Ti lt fast moving speed & noiseless
- IP Rate: IP20
- Flight case : 740x400x490 mm
- Carton : 460x305x420 mm
- Net weight : 5.22 KG
- Can make the clear spot when beam angel in7.9 degree, wash effect when in big angle

12.Contact:

Please check who is our dealer in your country at our website

www.kudux.com

or write direct to us by email: office@kudux.com