KUDUX®
STAGE TECHNOLOGY

PIXEL ZOOM 285

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

Table of contents

Statement 3

1. Safety information 4

2. Package 5

6. Install standard 8

7. Power supply 9

8. Control panel menu operate 9

10. DMX Channels 13

11. Clear and maintenance 17

12. Contact: 17

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.

1. 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.

1.1. Anti-high temperature



ta =40°C

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

1.2. To prevent falling wounding

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

1.3. UV protection and the bulb explosion

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

1.4. 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. 

1.5. 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.



2. Package

2.1. Attachment

PIXEL ZOOM 285 packed with fly-case of one in one, two in one, or carton box, attach follow accessory:

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

2.2. Transport protect lock

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

2.3. About pack stage

1. Before packed, make sure power is off, and wait for at least 20mins for cooling down.
2. Before cleaning the fixture, make sure X, Y axis protect lock closed.
3. 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.



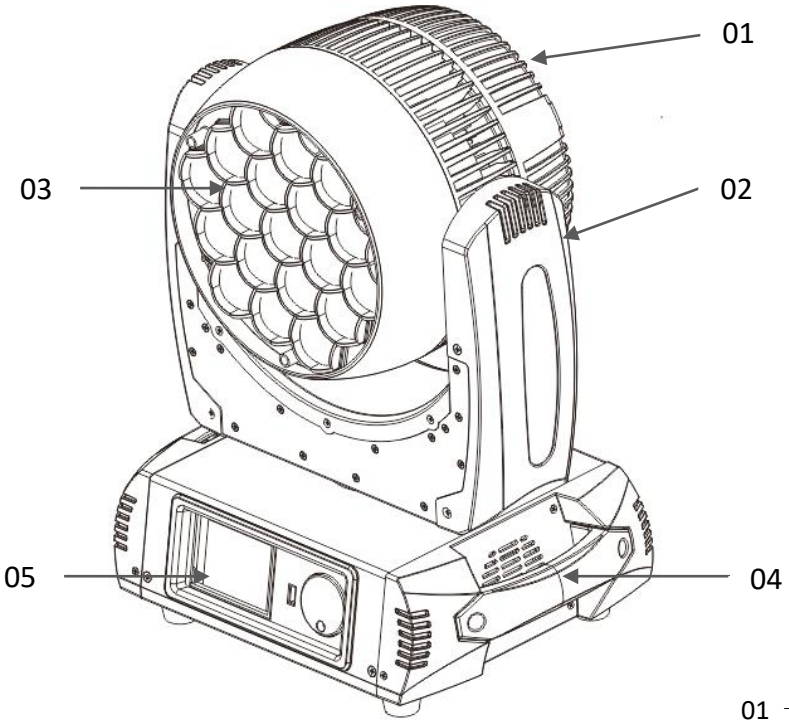
4. After packed the product, put the accessory into the accessory case, then closed and lock the fly-case.
5. Fly-case only up stacked two layers. Prohibited upside down
6. When packed with carton box, equipment should be put into the foam first, then set into a carton, pay attention to the vertical position.

2.4. 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.

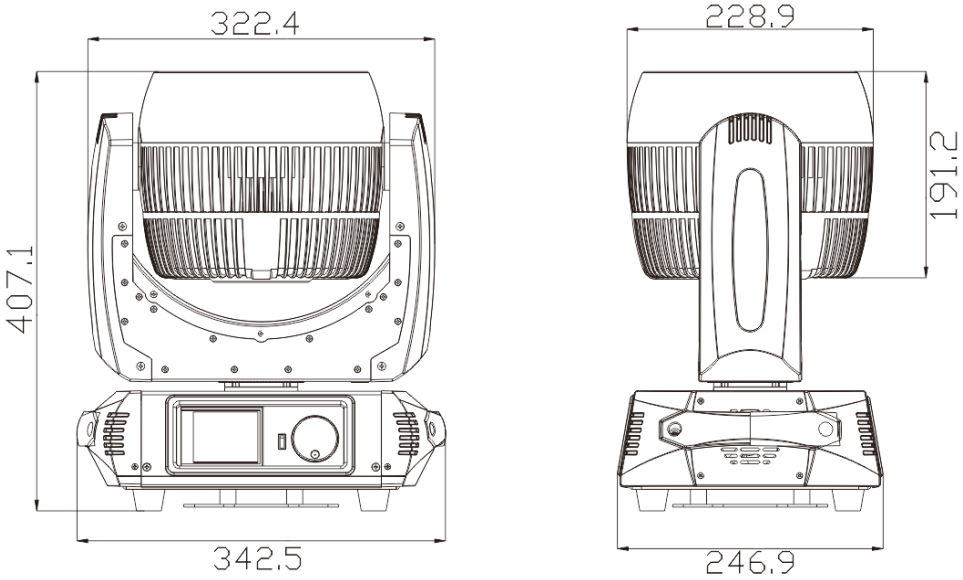
- Open the fly-case, and discover the inside plastic bag.
- High-lift the product by two handles beside the bottom base and move it out.
- Before power on, make sure you have opened the X, Y axis lock!

3. Product parts



01 —body
02 —arm
03 —lens
04 —handle
05 —base bottom

4. Dimensions:



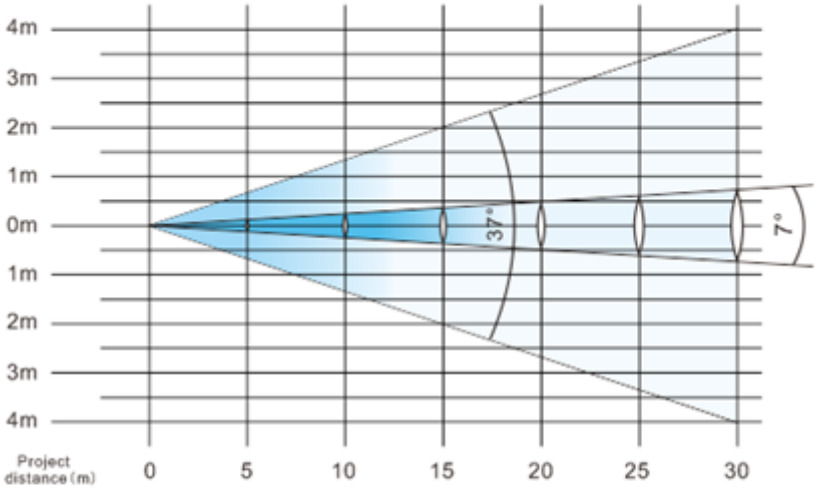
5. Specification

5.1. Specification

Channels mode 14/25/90 CH
Lamp: OSRAM/TAIWAN 15W RGBW 4in1 LED;
Power: 110-240V,50/60Hz;
Total power: 400W;
Display: LCD screen display, can reverse 180°;
Lens: French lens, 8 degree;
Zoom angel : 7.9-38°;
Dimmer : 0-100% l inear adjustment ;
Pan : 540°; 8Bit/16Bit ;
Tilt : 270°; 8Bit/16Bit ;
3-phase motor for Pan/Tilt fast moving speed & noiseless;
IP Rate: IP20;
Flight case : 740x400x490 mm; carton : 460x305x420 mm;
Net weight : 12 KG;
Can make the clear spot when beam angel in7.9-degree, wash effect when in big angle

5.2. Luminous diagram

Luminous diagram



Lumen

DISTANCE	10m		20m		30m	
ILLUMINATION	2091	360	523	90	232	40
SPOT SIZE	Φ1.29m	Φ6.5m zoom	Φ2.59m	Φ13.02m zoom	Φ3.88m	Φ19.53m zoom

6. Install standard

6.1. Install lock

PIXEL ZOOM 285 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.

PIXEL ZOOM 285 DMX cable include 3 contact pins:

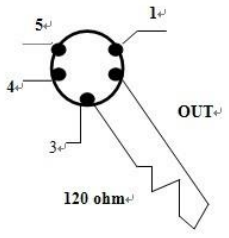
Pin 1, FOR GROUND; Pin 2 connected to the negative polarity signal; The pin 3 connected to the positive polarity signal.

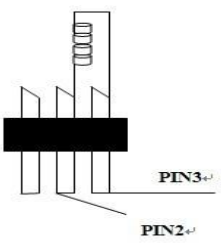
DMX512 cable must use the professional shielded twisted pair cable; standard loudspeaker cable is not reliable to control the long-range data. 24AWG cable is suitable for more than 300 meters long-distance signal transmission and must add\ DMX 512 signal amplifier.

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	400 W	50/60HZ

8. Control panel menu operate

9. LM285 LCD DISPLAY CONTENTS				
Main Menu	**Submenu 1**	**Submenu2**	**Function SET**	**Function description**
DMX ADDRESS	<<		001-512	address minimum value 1
	<			address + 1
	>			address -1
	<<			address maximum value 512
			SAVE	save date and back to main interface
			ESC	back to main interface
FEATURES SETTING	Run Mode:		DMX	DMX
			Wire	inactive
			Aoto	inactive
	Channel Mode:		14CH	14CH
			25CH	25CH
			90CH	90CH
	Pan Reverse:		Off	Pan Scan Normal
			On	Pan Scan Reverse
	Tilt Reverse:		Off	Tilt Scan Normal
			On	Tilt Scan Reverse
	Opto Check:		Off	Pan/Tilt optical sensor testing off
			On	Pan/Tilt optical sensor testing on

	PT Speed:		Noml	Pan/Tilt Scan Speed setting normal
			Slow	Pan/Tilt Scan Speed setting slow
			Fast	Pan/Tilt Scan Speed setting fast
	Singl Clear:		Off	keep signal data
			On	clear signal data
			ADV.	enter advanced function
			RST.	reset and back to main interface
			SAVE	save date and back to main interface
			ESC	back to main interface
ADVANCED FUNCTION	Redress	ZEROSETTING		
		Pan:	0-255	Motor zero calibration
		Tilt:		
		Focus:		
			SAVE	save date and back to last interface
			>	the current value + 1
			<	the current value - 1
			ESC	back to last interface
	ChanlDef			inactive
	FactSett			
	UseManage	Limit	LimitTime	inactive
			limitCont	inactive
		DefConfig	YES	restore default and exit from the current interface
			NO	exit from the current interface
		FacConfig	SAVE	save factory configuration ,exit from current interface
			EPRT	export factory configuration exit from current interface
			ESC	exit from current interface
			ESC	back to last interface
UNLOCK	Verify1:		0-255	unlocking code
	Verify2:			

			KEY	password to enter the next interface, Otherwise the exit from the current interface
			ESC	exit from current interface
MANUAL	LAMP REST		ALL MOTER	all motors
			XY MOTER	function inactive
			PART MOTER	function inactive
			YES	Reset the selected motor
			ESC	back to last interface
	TEST RUN	AUTO		auto
		SOUND		sound control
			ESC	back to last interface
	SMULATE DMX	Beam Strobe:	0-255	manual control
		Beam Dimmer:		
		Focus:		
		Pan:		
		Pan Fine:		
		Tilt:		
		Tilt Fine:		
		Function:		
		Beam Macro:		
		Beam Red:		
		Beam Green:		
		Beam Blue:		
		Beam White:		
		Colour Grad:		
		Gobo:		
		Shape Selection:		
		Shape Speed:		
		Shape Fade:		
		Shape R:		
		Shape G:		
		Shape B:		
		Shape W:		
		Shape Dim:		
		Background Dim:		
		Reserved:		
			>	current value + 1
			<	current value - 1
			ESC	back to last interface

	ESC			back to main interface
SYSTEM INFO	DMX VALUE	CH00-CH25	0-255	DMX value number
	REST INFO	Pan:	Right/Erro	Motor reset state
		Tilt:		
		Focus:		
		Pan Opto:		
		Tilt Opto:		
			ESC	back to last interface
	OTHER INFO	Run Time:	0-9999	fixture running how many hours
		Run Count:	0-9999	fixture running times
		Residue T:	Most	running hours unlimited
		Residue C:	Most	running time unlimited
		Type:	LM285	light model
		Temp:	xxx	led temperature
		Fan 1:	0-9999	Fan 1 rotate speed
		Fan 2:	0-9999	Fan 2 rotate speed
		Lamp brand:	CN/OSM	LED brand
		DisVersion:	Vxxx	Panel software version number
		XY Version:	Vxxx	XY Driver software version number
		M1 Version:	Vxxx	M1 software version number
			ESC	back to last interface
	ESC			back to main interface
DISPLAY SETTING	Light Set:		1-7Lev	Backlight brightness Settings
	Light Off:		On	backlight keeps on
			1Min	backlight off in 1 minutes
			2Min	backlight off in 2 minutes
			3Min	backlight off in 3 minutes
	Menu Back:		Off	close menu to return automatically
			1Min	The menu returns in 1 minute
			2Min	The menu returns after 2 minute
			3Min	The menu returns after 3 minute
	Light Flash:		Off	Closing backlight flashing

			On	open backlight flashing
	Touch Cali:		Off	Close touch calibration
			On	open touch calibration
			SAVE	save the date and back to main interface
			ESC	back to main interface
DIMMER SETTING	Dimmer Mode:		Fast	fast
			Noml	smooth
	Balance SW:		Off	The white balance off
			On	The white balance on
	Balance Red:		0-255	The white balance red
	Balance Green:			The white balance green
	Balance Blue:			The white balance blue
	Balance White:			The white balance white

10.DMX Channels

14CH	25CH	90CH	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 -14	LED built-in effect1
				15 -24	LED built-in effect2
				25 -34	LED built-in effect3
				35 -44	LED built-in effect4
				…	…
				155-164	LED built-in effect16
				165-174	LED built-in effect17
				175-184	LED built-in effect18
				185-194	LED built-in effect19
				195-255	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

		…	…	…	
		87	R19Dimmer	0 -255	R19Dimmer Dark-Bright
		88	G19Dimmer	0 -255	G19Dimmer Dark-Bright
		89	B19Dimmer	0 -255	B19Dimmer Dark-Bright
		90	W19Dimmer	0 -255	W19Dimmer Dark-Bright

11. 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.

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