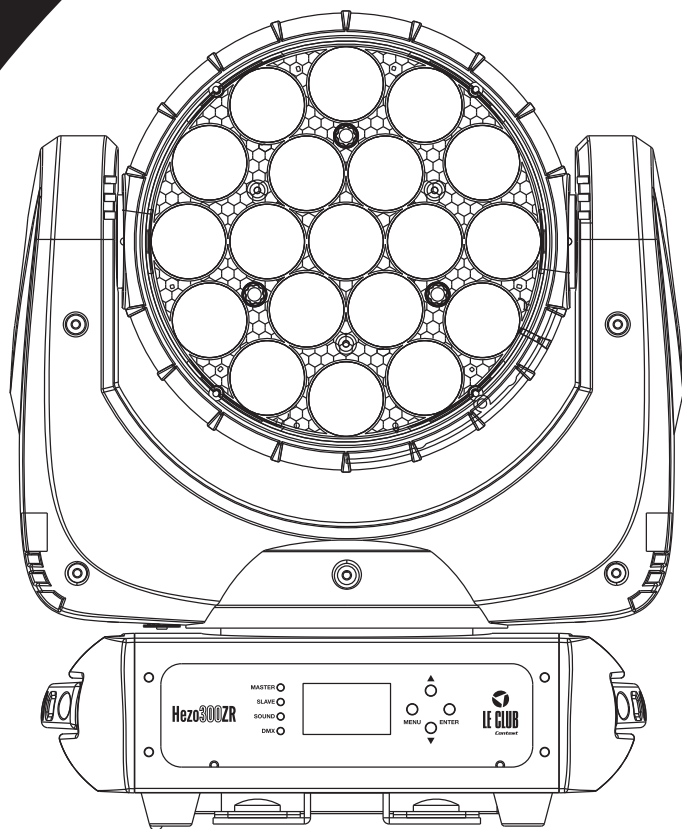




LE CLUB
Contest



HEZO300ZR

USER GUIDE
10710 - Version 1 / 02-2017

1 - Safety information

Important safety information



This unit is intended for indoor use only. Do not use it in a wet, or extremely cold/hot locations. Failure to follow these safety instructions could result in fire, electric shock, injury, or damage to this product or other property.



This product contains non-isolated electrical components. Do not undertake any maintenance operation when it is switched on as it may result in electric shock.



Any maintenance procedure must be performed by a CONTEST authorised technical service. Basic cleaning operations must thoroughly follow our safety instructions.



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



WARNING : This unit contains no user-serviceable parts. Do not open the housing or attempt any maintenance by yourself. In the unlikely even your unit may require service, please contact your nearest dealer.



Warning

This product is equipped with Class 2 LEDs. Please avoid looking directly at the beam as it may cause severe eye injuries.



Risk of electric shock

In order to avoid any electrical malfunction, please do not use any multi-socket, power cord extension or connecting system without making sure they are perfectly isolated and present no defect.e.



Recycling your device

- As HITMUSIC is really involved in the environmental cause, we only commercialise clean, ROHS compliant products.
- When this product reaches its end of life, take it to a collection point designated by local authorities. The separate collection and recycling of your product at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.

Symbols used



This symbol signals an important safety precaution.



The CAUTION symbol signals a risk of product deterioration.



The WARNING symbol signals a risk to the user's physical integrity. The product may also be damaged.



Note : The legislation requires that every device set up in a public space features a double fixation bracket. This security system must hold 10 times the weight of the device.

Instructions and recommendations

1 - Please read carefully :

We strongly recommend to read carefully and understand the safety instructions before attempting to operate this unit.

2 - Please keep this manual :

We strongly recommend to keep this manual with the unit for future reference.

3 - Operate carefully this product :

We strongly recommend to take into consideration every safety instruction.

4 - Follow the instructions:

Please carefully follow each safety instruction to avoid any physical harm or property damage.

5 - Avoid water and wet locations :

Do not use this product in rain, or near washbasins or other wet locations.

6 - Installation :



We strongly encourage you to only use a fixation system or support recommended by the manufacturer or supplied with this product. Carefully follow the installation instructions and use the adequate tools.

Always ensure this unit is firmly fixed to avoid vibration and slipping while operating as it may result in physical injury.

7 - Ceiling or wall installation :

Please contact your local dealer before attempting any ceiling or wall installation.

8 - Ventilation :

The cooling vents ensure a safe use of this product, and avoid any overheating risk.

Do not obstruct or cover these vents as it may result in overheating and potential physical injury or product damage. This product should never be operated in a closed non-ventilated area such as a flight case or a rack, unless cooling vents are provided for the purpose .

9 - Heat exposure :

Sustained contact or proximity with warm surfaces may cause overheating and product damages. Please keep this product away from any heat source such as a heaters, amplifiers, hot plates, etc...

10 - Electric power supply :



This product can only be operated according to a very specific voltage. These information are specified on the label located at the rear of the product.

11 - Power cords protection:



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 cords at lugs, convenience receptacles and the point where they exit from the fixture.

12 - Cleaning precautions :



Unplug the product before attempting any cleaning operation. This product should be cleaned only with accessories recommended by the manufacturer. Use a damp cloth to clean the surface. Do not wash this product.

13 - Long periods of non use :



Disconnect the unit's main power during long periods of non use.

14 - Liquids or objects penetration :



Do not let any object penetrate this product as it may result in electric shock or fire.

Never spill any liquid on this product as it may infiltrate the electronic components and result in electric shock or fire.

15 - This product should be serviced when :



Please contact the qualified service personnel if :

- The power cord or the plug has been damaged.
- Objects have fallen or liquid has been spilled into the appliance.
- The appliance has been exposed to rain or water.
- The product does not appear to operate normally.
- The product has been damaged.

16 - Inspection/maintenance :

Please do not attempt any inspection or maintenance by yourself. Refer all servicing to qualified personnel.

17 - Operating environment :



Ambient temperature and humidity: +5 - +35°C, relative humidity must be less than 85% (when cooling vents are not obstructed).

Do not operate this product in a non-ventilated, very humid or warm place..

2 - Technical specifications

Light sources

- › 19 x 15W OSRAM® RGBW LEDs
- › Beam angle from 10° to 60° via motorized zoom
- › Light output:
 - 9030 LUX at 5m for a 10° angle
 - 660 LUX at 5m for a 60° angle

Colours

- › White balance configuration
- › Colour preset
- › Colour macro

Effects

- › Strobe at adjustable speed, pulse effect, music-sensitive flash
- › Adjustable electronic dimmer from 0 - 100%
- › Motorized focus with adjustable angle from 10° - 60°
- › Independent control of 3 colour areas (outer ring, inner ring and central point)

Control

- › Standard DMX-512
- › 1, 20, 30 and 32 DMX channels
- › Music-sensitive shows (via internal mic)
- › Simplified control of several unit in Master/Slave mode
- › Drop-down display for assignment and mode selection

- › 16-bit PAN and TILT movements

- › Range: Pan 540° - Tilt 270°

- › Adjustable movement speed

- › Pan and Tilt memory position and auto-repositioning

- › Adjustable movement macros

Movements

- › DMX IN and OUT via 3 and 5-pin XLR,
- › POWER IN/OUT via Powercon® sockets

Package contents:

The package must contain the following articles:

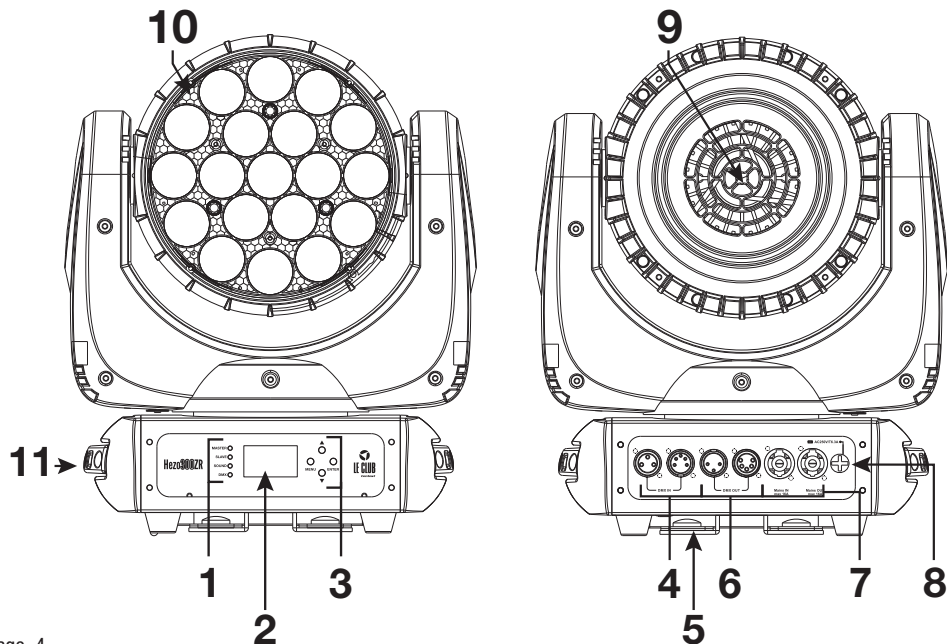
- › The projector
- › The user guide
- › A Powercon® / 2 poles + earth cord
- › Two quicklock

Additional characteristics

- › Adjustable fan speed
- › Fixation brackets with Quicklock fastening system
- › Power consumption: 340W maximum
- › Power supply: AC 100/230V - 50/60Hz
- › Dimensions: 325 x 222 x 393 mm
- › Net weight: 9 Kg

Movements

3 - Description



1 LED indicators

Indicate the status of your device

LED	Indication
DMX	Activates when your device enters DMX mode
MASTER	Activates when your device enters MASTER mode
SLAVE	Activates when your device enters SLAVE mode
SOUND	Flashes when your devices enters music-sensitive mode

2 Display

Allows you to configure your projector. Please refer to next chapter for more details about menu functions. The backlight can be disabled via the Backlight Auto command from the menu.

3 Display and menu buttons**Display**

Allows you to intuitively configure your device. Please refer to next paragraph for more details about the menu functions. The backlight can be turned off via the Backlight function from the menu.

MODE Button

Allows you to access the menu and select a function.

ENTER Button

Allows you to enter sub-menus and apply changes.

UP and DOWN buttons

Allows you to increase or decrease parameter values.

4 DMX input/output

3-pin XLR plugs hardwired as follows:

- Pin 1: Mass
- Pin 2: Negative signal
- Pin 3: Positive signal

5 Inserts for fixation system

Connect your quicklock fastening system to hooks, then use these inserts to connect the projector to the quicklock fasteners.

6 5-pin DMX input/output

5-pin XLR plugs hardwired as follows:

- Pin 1: Mass
- Pin 2: Negative signal
- Pin 3: Positive signal

Pins 4 and 5 are not connected.

7 Power input/output

Input: allows you to connect your projector to the mains via 2 poles + terre / Powercon® IN cord

Please make sure the voltage of your workplace matches this projector.

Output: allows you to connect your projector to another projector via Powercon® IN/OUT cord.

You can daisy-chain up to 10 projectors with identical requirements.

8 Fuse

If need to change the fuse, please make sure the new fuse has the exact same characteristics as the old one.

9 Vents

Please make sure the vents are not blocked at any time.

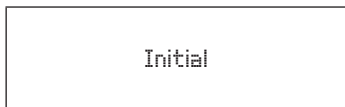
10 LED panel**11 Transport handles**

When handling your projector, please always use the handles to carry it, as any other part might break due to the weight.

4 - Internal menu

4.1 - Menu tree and functions

Upon initialisation, the display will indicate:



The projector initialises the functions of the internal program.
It will then enter standby mode and indicate:



The projector is now ready to be used.

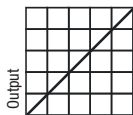
Menu	Sub-menu	Action
DMX Functions	DMX Address	Allows you to configure the DMX address. Values can be set from 001 to 512.
	DMX Channel Mode	Allows you to decide how many DMX channels will be available DMX modes: Mode 01 (1ch): 1 DMX channel Mode 04 (22ch): 22 DMX channels Mode 06 (30ch): 30 DMX channels Mode 08 (32ch): 32 DMX channels
	View DMX Value	Allows you to visualise the DMX value of each function
Show Setting	Blackout	Enable Blackout mode when the HEZ0300ZR is turned on
	Show Mode	Selects from show 1 to 8
	Slave Mode	Selects: - Master: The HEZ0300ZR is in master mode. - Slave 1: The HEZ0300ZR is in slave mode and reacts exactly like the master. - Slave 2: The HEZ0300ZR is in slave mode and its movements are reversed compared to the master device.
	Sound Mode	Activates or deactivates music-sensitive mode
Fixture Setting	Sound Sense	Adjusts the sensitivity of the music-sensitive mode
	Pan Inverse	Activates or deactivates the revert PAN mode (Yes/No)
	Tilt Inverse	Activates or deactivates the revert TILT mode (Yes/No)
	P/T Feedback	Activates or deactivates feedbacks from the projector regarding PAN and TILT movements (Yes/No)
	BL.O. P/T Moving	Activates or deactivates black-out during PAN and TILT movements (Yes/No)

Menu	Sub-menu	Action	
Fixture Setting (last part)	White Balance	The «white balance» function allows you to calibrate the colours of your projector. It allows you to manually set Red, Green, Blue and White levels which will then apply to each colour. Select a colour, then use the UP and DOWN buttons to adjust values from 125 to 255. 125 means the colour intensity is reduced by half.	
	Cooling Mode	Allows you to adjust the cooling system behaviour: - Auto: Fans are controlled internally - Low: Fans are always at their lowest	
	Dimmer Curve	Linear	Brightness settings are proportional to values indicated by the display.
		Square Law	Brightness settings are exponential
		Inverse Squ.	Brightness settings are inversely exponential
Dimmer Speed	S-Curve	Brightness settings increase slowly in lower values and sharply in high values	
	Dimmer Speed	Allows you to adjust the dimmer speed: SMOOTH : Smooth dimmer SPEED : Instant dimmer	
Display Setting	Display Inverse	Allows you to rotate the display by 180°	
	Backlight Auto Off	Allows you to turn off the backlight when the screen has been inactive for 3 seconds	
	Backlight Intensity	Allows you to increase or decrease contrast. From 1 to 10.	
	Temperature Unit	Allows you to modify the temperature unit. Celsius or Fahrenheit degrees.	
	Display Warning	Activate this option for the display to flash when no DMX signal is detected.	
	Language	Allows you to configure the language: English or Chinese	
Fixture Test	Auto Test	Automatically tests each function of your projector	
	Manual Test	Manually tests each function of your projector	
Fixture information	Fixture Use time	Display the total use time of your projector	
	Firmware Version	Displays the current software version	
Reset Functions	Resets the following functions: - Pan/Tilt - Zoom - All		
Special Functions	Fixture Maintenance	Interval	Displays the time between two maintenance operations
		Remain Time	Displays the remaining time before maintenance operations are required
	Factory Setting	Displays the remaining time before maintenance operations are required	
Factory Setting	Resets back to factory settings.		

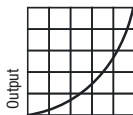
4.2 - More about the 4 DIMMER CURVE modes

Dimmer curves modes allow you to define the dimmer behaviour.

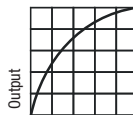
Please find below the 4 modes and the brightness increase depending on the mode and DMX channel levels.



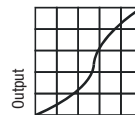
% DMX
Mode 1 : Linear



% DMX
Mode 2 : Exponential



% DMX
Mode 3 : Parabolic



% DMX
Mode 4 : S-shaped

5 - DMX modes

5.1 - 1-channel mode

Channel	Values	Action
1	000 - 007	Black-out
	008 - 035	Show 1 en mode auto
	036 - 063	Show 2 en mode auto
	064 - 091	Show 3 en mode auto
	092 - 119	Show 4 en mode auto
	120 - 147	Show 5 en mode auto
	148 - 175	Show 6 en mode auto
	176 - 203	Show 7 en mode auto
	204 - 231	Show 8 en mode auto
	232 - 255	Shows 1 - 8 sequence in music-sensitive mode

5.2 - 22-channel mode

Mode	Channels	Values	Action	
22 - channel mode	1	000 - 255	PAN Movement	
	2	008 - 255	16-bit PAN Movement	
	3	036 - 255	TILT Movement	
	4	000 - 255	16-bit TILT Movement	
	5	000 - 255	PAN and TILT movement speed	
	6	000 - 255	Dimmer from 0 - 100%	
	7	Shutter		
		000 - 019	Blackout	
		020 - 024	Open	
		025 - 064	Zone 1 slow to fast strobe	
		065 - 069	Ouvert	
		070 - 084	Zone 2 slow to fast strobe	
		085 - 089	Open	
		090 - 104	Zone 3 slow to fast strobe	
		105 - 109	Open	
		110 - 124	Slow to fast strobe including all zones	
		125 - 129	Open	
		130 - 144	Slow to fast pulse effect	
		145 - 149	Open	
		150 - 164	Slow to fast reverse pulse effect	
		165 - 169	Open	
		170 - 184	Slow to fast random strobe	
		185 - 189	Open	
	190 - 204	Slow to fast and zone-by-zone strobe effect		
	205 - 209	Open		
	210 - 224	Slow to fast, zone-by-zone and random strobe effect		
	225 - 229	Open		
	230 - 244	Slow to fast wave effect		
	245 - 255	Open		
	8	036 - 255	Red dimmer from 0 - 100%	
	9	000 - 255	Green dimmer from 0 - 100%	
	10	000 - 255	Blue dimmer from 0 - 100%	
	11	000 - 255	White dimmer from 0 - 100%	
12	000 - 255	Zoom from 60° to 10°		
13	Colour macro			
	000 - 007	Blackout		
	008 - 039	Red to Yellow crossfade		
	040 - 071	Yellow to Green crossfade		
	072 - 103	Greento Cyan crossfade		
	104 - 135	Cyan to Blue crossfade		
	136 - 167	Blue to Magenta crossfade		
	168 - 199	Magenta to Red crossfade		
	200 - 231	Red to White crossfade		
	231 - 255	Colour mix		

5.2 - 22-channel mode (second part)

Mode	Channels	Values	Action	
22 - channel mode	14	Colour presets		
		000 - 004	No function	
		005 - 009	White 2700°K	
		010 - 014	White 3200°K	
		015 - 019	White 4300°K	
		020 - 024	White 5600°K	
		025 - 029	White 6500°K	
		030 - 034	White 8000°K	
		035 - 039	Red	
		040 - 044	Orange	
		045 - 049	Cyan	
		050 - 054	Green	
		055 - 059	Light Green	
		060 - 064	Lilac	
		065 - 069	Pink	
		070 - 074	Yellow	
		075 - 079	Magenta	
		080 - 084	Blue	
		085 - 089	Congo Blue	
		090 - 094	Red / Blue / White	
		095 - 099	Red / Blue / Green	
		100 - 104	Red / Pink / Light Blue	
		105 - 109	Red / Blanc / Blanc	
		110 - 114	Green / Green / Blue	
		115 - 119	Green / Blue / Green	
		120 - 124	Green / White / Green	
		125 - 129	Blue / Green / White	
		130 - 134	Blue / Rouge / White	
		135 - 139	Blue / Blue / Pink	
		140 - 144	Blue / Blue / Pink	
		145 - 149	White / Blue / Blue	
		150 - 255	White / Red / Red	
		15	Presets colours dimer	
		000 - 255	Dimer from 0 - 100%	
	16	Colour temperature control		
		000 - 019	No function	
		020 - 255	Colour temperature adjustable from 10 000°K to 2500°K	
	17	Patterns and colour macros		
		000 - 010	No function	
		011 - 015	Preset pattern 1	These patterns will use the colour you assigned to each zone
		016 - 020	Preset pattern 2	
		021 - 025	Preset pattern 3	
		026 - 030	Preset pattern 4	
		031 - 035	Preset pattern 5	
		036 - 040	Preset pattern 6	
		041 - 045	Preset pattern 7	
		046 - 052	Macro 1	These patterns will use the colour you assigned to each zone
		053 - 059	Macro 2	
		060 - 066	Macro 3	
		067 - 073	Macro 4	
		074 - 080	Macro 5	
		081 - 087	Macro 6	
	088 - 094	Macro 7		
	095 - 101	Macro 8		
	102 - 108	Macro 9		
	109 - 115	Macro 10		

5.2 - 22-channel mode (third part)

Mode	Channels	Values	Action		
22 - channel mode	17	116 - 122	Macro 11		
		123 - 129	Macro 12		
		130 - 136	Macro 13		
		137 - 143	Macro 14		
		144 - 150	Macro 15		
		151 - 157	Macro 16		
		158 - 164	Macro 17		
		165 - 171	Macro 18		
		172 - 178	Macro 19		
		179 - 185	Macro 20		
		186 - 192	Macro 21		
		193 - 199	Macro 22		
		200 - 206	Macro 23		
		207 - 213	Macro 24		
		214 - 220	Macro 25		
		221 - 227	Macro 26		
		228 - 234	Macro 27		
		235 - 241	Macro 28		
		242 - 248	Macro 29		
		249 - 255	Macro 30		
		18	Patterns and colour macros speed		These macros use preset colours
			000 - 255	Increasing speeds	
		19	Colour macros and patterns crossfade duration		
			000 - 255	Increasing duration	
		20	PAN and TILT movement macros		
			000 - 007	Macro 1	
			008 - 015	Macro 2	
			016 - 023	Macro 3	
			024 - 031	Macro 4	
			032 - 039	Macro 5	
	040 - 047		Macro 6		
	048 - 055		Macro 7		
	056 - 063		Macro 8		
064 - 071	Macro 9				
072 - 079	Macro 10				
080 - 087	Macro 11				
088 - 095	Macro 12				
096 - 103	Macro 13				
104 - 111	Macro 14				
112 - 019	Macro 15				
120 - 127	Macro 16				
128 - 135	Macro 17				
136 - 143	Macro 18				
144 - 151	Macro 19				
152 - 159	Macro 20				
160 - 167	Macro 21				
168 - 175	Macro 22				
176 - 183	Macro 23				
184 - 191	Macro 24				
192 - 199	Macro 25				
200 - 207	Macro 26				
208 - 215	Macro 27				
216 - 223	Macro 28				
224 - 231	Macro 29				
232 - 239	Macro 30				
240 - 247	Macro 31				
248 - 255	Macro 32				

5.2 - 22-channel mode (last part)

Mode	Channels	Values	Action
22 - channel mode	21	PAN and TILT movement macros	
		000 - 2545	Increasing speed
		246 - 255	Music-sensitive mode
	22	Special functions	
		000 - 059	No function
		060 - 069	Black-out during PAN and TILT movements
		070 - 079	No Black-out during PAN and TILT movements
		080 - 089	PAN and TILT movement reset
		090 - 099	Zoom reset
		100 - 109	Global reset
		110 - 160	No function
		161 - 170	Show 1 in auto mode
		171 - 180	Show 2 in auto mode
		181 - 199	Show 3 in auto mode
		191 - 200	Show 4 in auto mode
		201 - 210	Show 5 in auto mode
		211 - 220	Show 6 in auto mode
		221 - 230	Show 7 in auto mode
		231 - 240	Show 8 in auto mode
		241 - 255	Shows 1 - 8 sequence in music-sensitive mode

5.3 - 30-channel mode

Mode	Channels	Values	Action
30 - channel mode	1	000 - 255	PAN Movement
	2	008 - 255	16-bit PAN Movement
	3	036 - 255	TILT Movement
	4	000 - 255	16-bit TILT Movement
	5	000 - 255	PAN and TILT movement speed
	6	000 - 255	Dimmer from 0 - 100%
	7	000 - 255	16-bit dimmer
	8	Shutter	
		Identical to channel 7 from the 22-channel mode	
	9	000 - 255	Ring 1 Red dimmer 1 from 0 to 100%
	10	000 - 255	Ring 1 Green dimmer 1 from 0 to 100%
	11	000 - 255	Ring 1 Blue dimmer 1 from 0 to 100%
	12	000 - 255	Ring 1 White dimmer 1 from 0 to 100%
	13	000 - 255	Ring 2 Red dimmer 1 from 0 to 100%
	14	000 - 255	Ring 2 Green dimmer 1 from 0 to 100%
	15	000 - 255	Ring 2 Blue dimmer 1 from 0 to 100%
	16	000 - 255	Ring 2 White dimmer 1 from 0 to 100%
	17	000 - 255	Ring 3 Red dimmer 1 from 0 to 100%
	18	000 - 255	Ring 3 Green dimmer 1 from 0 to 100%
	19	000 - 255	Ring 3 Blue dimmer 1 from 0 to 100%
	20	000 - 255	Ring 3 White dimmer 1 from 0 to 100%
	21	000 - 255	Zoom from 60° to 10°
	22	000 - 255	16-bit zoom
	23	Colour macros	
		Identical to channel 13 from the 22-channel mode	
	24	Preset colours	
	Identical to channel 14 from the 22-channel mode		
25	Preset colours dimmer		
	Identical to channel 15 from the 22-channel mode		
26	Colour temperature control		
	Identical to channel 16 from the 22-channel mode		

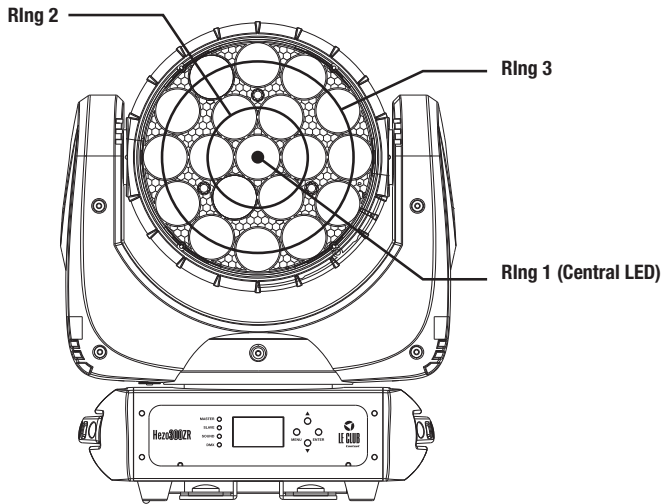
5.3 - 30-channel mode (next and last part)

Mode	Channel	Values	Action
30-channel mode	27	Colour patterns and macros Identical to channel 17 from the 22-channel mode	
	28	Patterns and macros speed Identical to channel 18 from the 22-channel mode	
	29	Colour macros and patterns crossfade duration Identical to channel 19 from the 22-channel mode	
	30	Special functions Identical to channel 20 from the 22-channel mode	

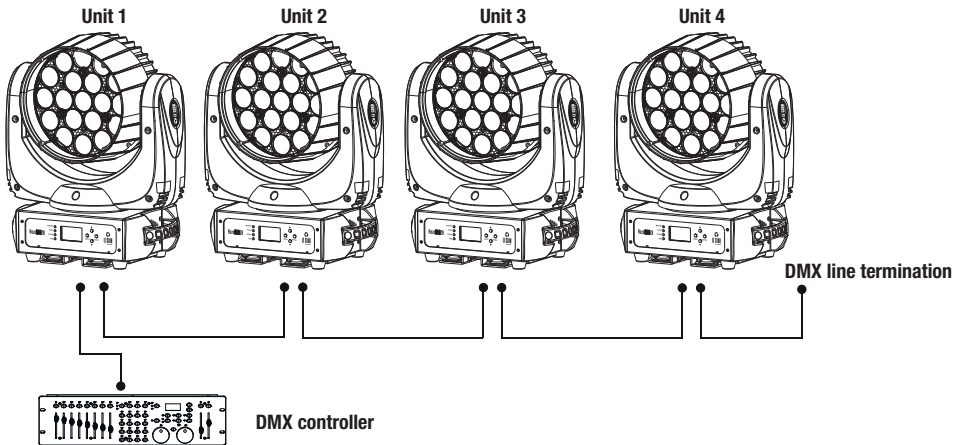
5.4 - 32-channel mode

Mode	Channel	Values	Action
32-channel mode	1	000 - 255	PAN Movement
	2	008 - 255	16-bit PAN Movement
	3	036 - 255	TILT Movement
	4	000 - 255	16-bit TILT Movement
	5	000 - 255	PAN and TILT movement speed
	6	000 - 255	Dimmer from 0 - 100%
	7	000 - 255	16-bit dimmer
	8	Shutter Identical to channel 7 from the 20-channel mode	
	9	000 - 255	Ring 1 Red dimmer 1 from 0 to 100%
	10	000 - 255	Ring 1 Green dimmer 1 from 0 to 100%
	11	000 - 255	Ring 1 Blue dimmer 1 from 0 to 100%
	12	000 - 255	Ring 1 White dimmer 1 from 0 to 100%
	13	000 - 255	Ring 2 Red dimmer 1 from 0 to 100%
	14	000 - 255	Ring 2 Green dimmer 1 from 0 to 100%
	15	000 - 255	Ring 2 Blue dimmer 1 from 0 to 100%
	16	000 - 255	Ring 2 White dimmer 1 from 0 to 100%
	17	000 - 255	Ring 3 Red dimmer 1 from 0 to 100%
	18	000 - 255	Ring 3 Green dimmer 1 from 0 to 100%
	19	000 - 255	Ring 3 Blue dimmer 1 from 0 to 100%
	20	000 - 255	Ring 3 White dimmer 1 from 0 to 100%
	21	000 - 255	Zoom from 60° to 10°
	22	000 - 255	16-bit zoom
	23	Colour macros Identical to channel 13 from the 22-channel mode	
	24	Preset colours Identical to channel 14 from the 22-channel mode	
	25	Preset colours dimmer Identical to channel 15 from the 22-channel mode	
	26	Colour temperature control Identical to channel 16 from the 22-channel mode	
	27	Colour patterns and macros Identical to channel 17 from the 22-channel mode	
	28	Patterns and macros speed Identical to channel 18 from the 22-channel mode	
	29	Colour macros and patterns crossfade duration Identical to channel 19 from the 22-channel mode	
	30	Special functions Identical to channel 20 from the 22-channel mode	
	31	PAN and TILT movement macros speed Identical to channel 21 from the 22-channel mode	
	32	Special functions Identical to channel 22 from the 22-channel mode	

5.5 - Ring zones

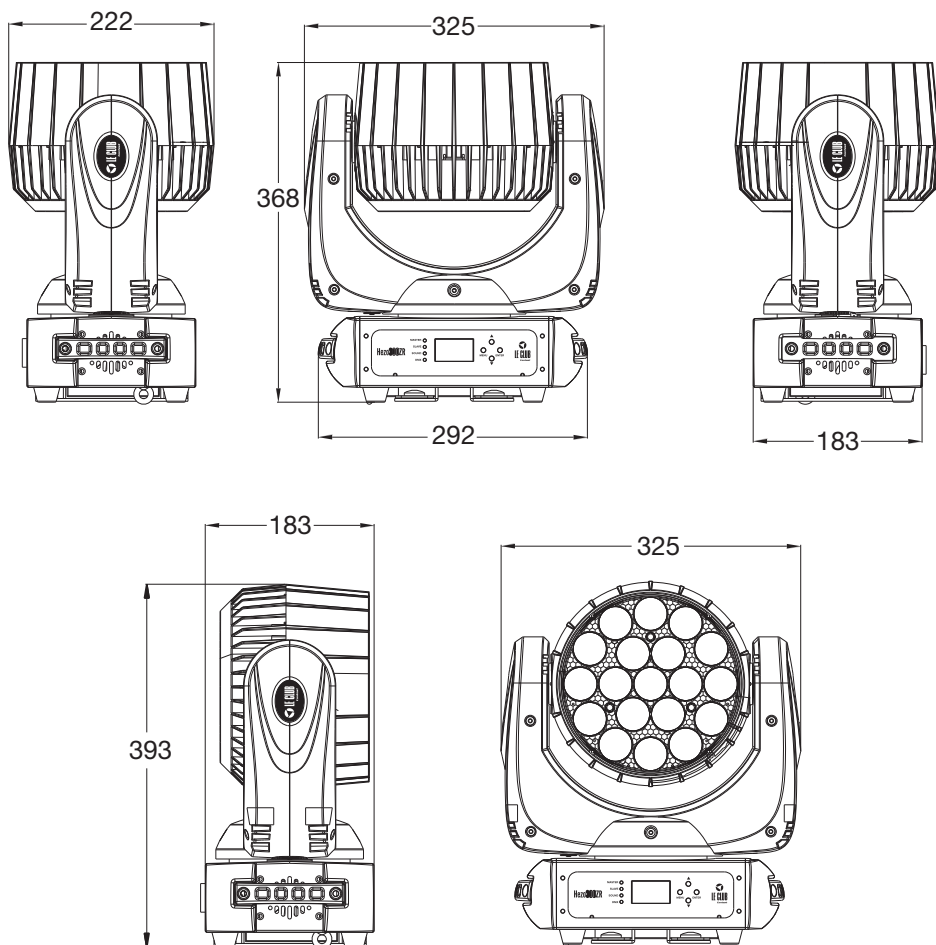


6 - Cabling and DMX addressing



DMX Mode	Unit 1 address	Unit 2 address	Unit 3 address	Unit 4 address
1 channel	1	2	3	4
22 channels	1	23	45	67
30 channels	1	31	61	91
32 channels	1	33	65	97

7 - Dimensions



Because CONTEST® takes the utmost care in its products to make sure you only get the best possible quality, our products are subjects to modifications without prior notice. That is why technical specifications and the products physical configuration might differ from the illustrations.

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