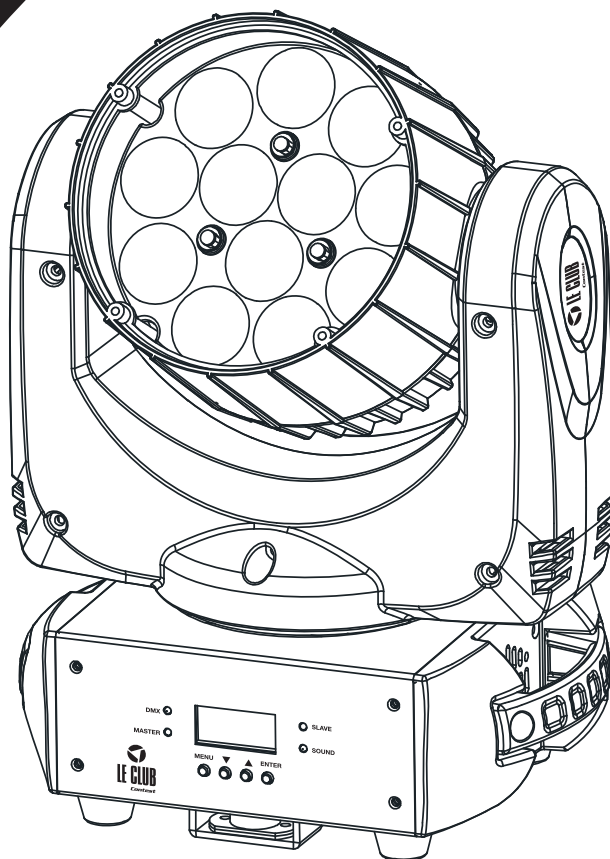




**LE CLUB**  
*Contest*



**HEZO120Z**

**USER GUIDE**

10408 - Version 1 October 2015

# 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. 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.



### 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 electrocution

To prevent the hazard of electric shocks, do not use extension cords, multi-socket or any other connection system without making sure metal parts completely are out of reach.



### 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 source

- › 12 x 10W 4-in-1 LEDs – 50.000 hours (expected)
- › Beamwidth: from 10° to 60°
- › Low temperature, low power consumption and works many hours continuously

### Colours

- › 14 Le Club-compatible colours
- › Adjustable white balance settings
- › Colour presets

### Effects

- › Strobe at increasing speed, pulse effect, music-sensitive flash
- › Adjustable electronic dimmer from 0 to 100%
- › Beamwidth and movement at adjustable speed from 10° to 60%

### Control

- › Standard DMX-512
- › 1 to 17 DMX channels
- › Built-in music-sensitive programs (internal mic)
- › Simplified control of several units via Master/Slave mode
- › Colour LCD drop-down menu to choose and assign the different modes

### Movements

- › Whole PAN and TILT movements and independent rotation of the effect lens
- › Ranges: Pan 540° - Tilt 270°
- › Adjustable movement speed
- › Position memory and PAN/TILT auto repositioning
- › Movement macros at increasing speed

### Package contents:

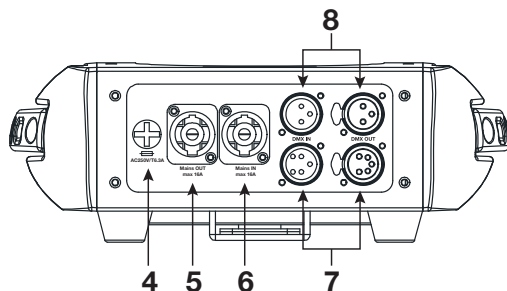
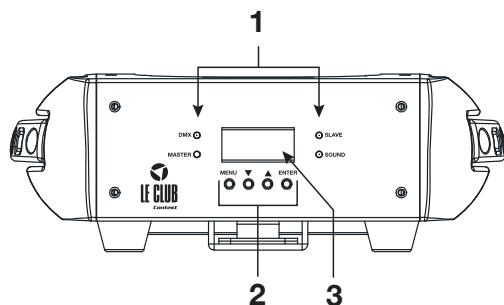
The package must contain the following articles:

- › Your HEZO120Z
- › The user guide
- › 1x2-pole + earth power cord / Powercon® socket
- › 1 fixation brackets with Omega holders

### Additional characteristics

- › Adjustable fan speed
- › Power consumption: 198 W max.
- › Power supply: 100/230V, AC - 50/60Hz
- › Dimensions: 263 x 183 x 340 mm
- › Net weight: 7.5 Kg

### 3 - Description des panneaux



#### 1 Indicator LEDs

These 4 LEDs indicate the status of your device.

LED	Indication
DMX	Lights up when your device is in DMX mode
MASTER	Lights up when your device is in MASTER mode
SLAVE	Lights up when your device is in SLAVE mode
SOUND	Flashes when your device is in music-sensitive mode

#### 2 MENU Buttons

##### MENU button

Allows you to browse through menus and select a function.

##### ENTER button

Allows you to browse through menus and change values via the UP and DOWN buttons.

##### UP and DOWN buttons

Allows you to browse through menus and change values.

#### 3 Display

Allows you to configure your projector. Please refer to next chapter for more details. The back-light can be deactivated from the menu via the Back Light function.

#### 4 Fuse

If need to replace this fuse, please make sure the new one has the exact same characteristics.

#### 5 Power output

Allows you to daisy-chain projectors via their Powercon® IN/OUT output.

You can daisy-chain up to 8 projectors with identical power requirements.

#### 6 Power input socket

Allow you to connect your projector to the mains via a 2-pole / earth Powercon® cord.

Please read the instructions carefully and make sure the voltage matches them.

#### 7 5-pin DMX input

5-pin female XLR plug hardwired as follows:

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

Pins 4 and 5 are not connected.

#### 8 DMX Input /Output

3-pin XLR plugs hardwired as follows:

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

## 4 - Internal menu

### 4.1 - Menu tree and description of the functions

Your moving head will initialise the position of each motor upon activation.

The display will indicate Le Club  
CONTEST at this stage. The display will then indicate HEZ0  
120Z and you will be able to access the menu by pressing MENU or ENTER. After a 30-second period of inactivity, the display will indicate HEZ0  
120Z again and lock. Press ENTER to access it again.

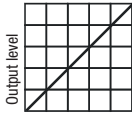
MENU	UP and DOWN	Action	ENTER
<span style="border: 1px solid black; padding: 2px;">DMX Address</span>	<span style="border: 1px solid black; padding: 2px;">001-512</span>	DMX address selection. Press ENTER, then use the UP and DOWN buttons to configure the address.	Saves changes
<span style="border: 1px solid black; padding: 2px;">Channel Mode</span>	<span style="border: 1px solid black; padding: 2px;">1 Chan</span>	1 channel: built-in programs (1 to 4) selection	Press ENTER, select a mode with UP and DOWN.
	<span style="border: 1px solid black; padding: 2px;">12 Chan</span>	12 channels: Pan, Tilt, PAN and TILT movement speed, Dimmer, Shutter, Red, Green, Blue, White, Colour wheel, Zoom, Special functions	
	<span style="border: 1px solid black; padding: 2px;">17 Chan</span>	17 channels: Pan, precise Pan, Tilt, precise Tilt, PAN and TILT movement speed, Dimmer, Shutter, Red, Green, Blue, White, Colour wheel, Zoom, Temperature correction, Movement macros, Movement macros speed, Special functions	
<span style="border: 1px solid black; padding: 2px;">Show Mode</span>	<span style="border: 1px solid black; padding: 2px;">Show 1</span>	Show 1 : PAN = 180° / TILT = 100°	Shows are music-sensitive. Please make sure the music-sensitive mode is activated (Sound State menu) and the microphone sensitivity has been set (Sound Sense menu). Please refer to chapter 4.3 for more details about the shows.
	<span style="border: 1px solid black; padding: 2px;">Show 2</span>	Show 2 : PAN = 180° / TILT = 100°	
	<span style="border: 1px solid black; padding: 2px;">Show 3</span>	Show 3 : PAN = 540° / TILT = 180°	
	<span style="border: 1px solid black; padding: 2px;">Show 4</span>	Show 4 : PAN = 540° / TILT = 100°	
<span style="border: 1px solid black; padding: 2px;">Slave Mode</span>	<span style="border: 1px solid black; padding: 2px;">Slave 1</span>	Allows you to activate the Master mode and adjust the behavior of slave devices: - Slave 1: The slave device reproduces precisely the movement of the master device. - Slave 2: The slave device reverses movements of the master device.	Saves changes
	<span style="border: 1px solid black; padding: 2px;">Slave 2</span>		
<span style="border: 1px solid black; padding: 2px;">Dimmer Curve</span>	<span style="border: 1px solid black; padding: 2px;">Mode 1</span>	Allow you to configure the dimmer. Please refer to paragraph 4.2 for more details about these curves.	Saves changes
	<span style="border: 1px solid black; padding: 2px;">Mode 2</span>		
	<span style="border: 1px solid black; padding: 2px;">Mode 3</span>		
	<span style="border: 1px solid black; padding: 2px;">Mode 4</span>		
<span style="border: 1px solid black; padding: 2px;">Dimmer Speed</span>	<span style="border: 1px solid black; padding: 2px;">Fast</span>	Allows you to adjust the dimmer speed.	Saves changes
	<span style="border: 1px solid black; padding: 2px;">Smooth</span>		
<span style="border: 1px solid black; padding: 2px;">Sound State</span>	<span style="border: 1px solid black; padding: 2px;">On</span>	Activates or deactivates the music-sensitive mode. Press ENTER and select On or Off via the UP and DOWN buttons.	Saves changes
	<span style="border: 1px solid black; padding: 2px;">Off</span>		
<span style="border: 1px solid black; padding: 2px;">Sound Sense</span>	<span style="border: 1px solid black; padding: 2px;">000-100</span>	Allows you to adjust the microphone sensitivity for music-sensitive modes. 000 indicates the microphone is deactivated.	Saves changes

MENU	UP and DOWN	Action	ENTER
DMX State	Blackout Master Slave Hold	Configure the behaviour of your projector in the event of DMX signal failure: <ul style="list-style-type: none"> <li>• <b>Blackout:</b> The projector blacks out</li> <li>• <b>Master / Slave:</b> The projector enters slave mode</li> <li>• <b>Hold:</b> The projector holds onto the last information received</li> </ul>	
Back Light	On Off	Activates or deactivates the screen backlight. Press ENTER and select On or Off via the UP and DOWN buttons. When Off, the display will automatically turn off after a 30-second period of inactivity.	Saves changes
Pan Inverse	No Yes	Reverses the PAN movement when the slave and show modes are activated, or in DMX mode. Press ENTER and select Yes or No via the UP and DOWN buttons.	Saves changes
Tilt Inverse	No Yes	Reverses the TILT movement when the slave and show modes are activated, or in DMX mode. Press ENTER and select Yes or No via the UP and DOWN buttons.	Saves changes
White Balance	Red Green Blue	The «White balance» function allows you to calibrate the colours of your projector by adjusting the maximum level of each shade of red, green, blue and white which will then apply to all colours.	Saves changes
Manual Test	Pan Tilt Red Green Blue White Zoom Dimmer Strobe	Allow you to manually test each function. Select the function to be tested, then press ENTER and adjust the values from 000 to 255 via the UP and DOWN buttons.	Saves changes
Auto Test	Test...	Launches an automatic test of every function.	Launches test
Temp.	xxx	Displays the temperature (°C) of the head of your projector.	No action
Fixture Hours	xxx	Displays the total running time of your device since its very first initialisation.	No action
Software Version	A :UX.X Ab:UX.X	Displays the current version of the internal software. A is the current main software version. Ab is the current booting software version.	No action
Reset		Resets your device.	Resets

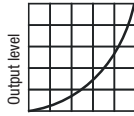
### 4.2 - More details about the 4 DIMMER CURVE modes

The DIMMER CURVE modes allow you to configure the behaviour of the dimmer.

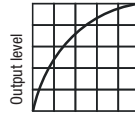
Please find below 4 drawings indicating the output level based on the mode and DMX level of the dimmer channel.



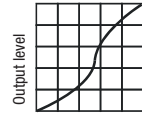
Mode 1 : Linear



Mode 2 : Exponential



Mode 3 : Parabolic



Mode 4 : S-shaped

### 4.3 - Adjusting initial positions

Upon initialisation, your moving head will adjust its motors onto their initial positions.

You can modify such positions so they meet your needs.

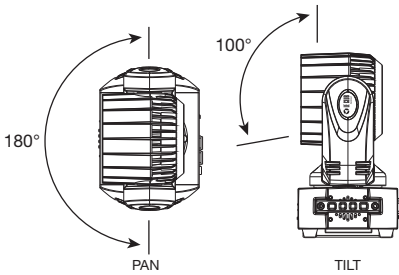
To do so, enter the **DMX Address** menu, then press ENTER for 3 seconds. Adjustable positions are listed below:

Pan Offset	-127 +127	PAN initial position settings.	Saves changes
Tilt Offset	-127 +127	TILT initial position settings.	Saves changes
Zoom Offset	000 255	Central lens initial position settings.	Saves changes

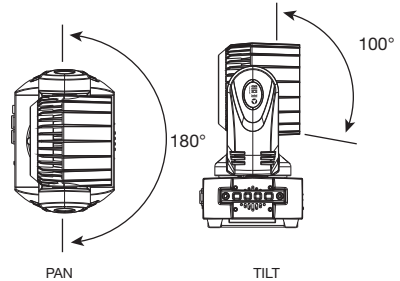
### 4.3 - Movement limitations based on programs used

In order to prevent your moving head from projecting beams over unwanted areas (ceilings, room angles, etc.) when automatic mode is activated, each show features its own PAN and TILT ranges. Please find below the movement limitations for each show.

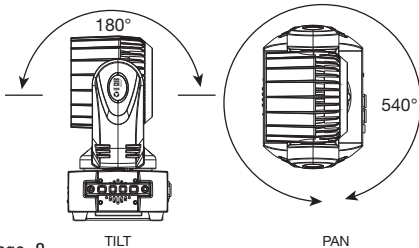
Show 1



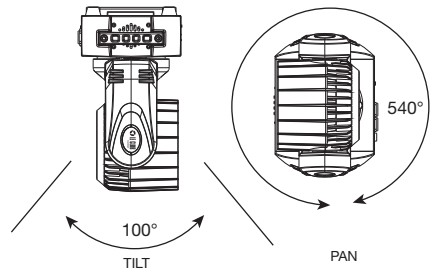
Show 2



Show 3



Show 4





## 5 - Dmx channels and their functions

Your projector will automatically enter DMX mode when a signal is detected via its DMX input.

### 5.1 - 1-channel mode

Channels	Values	Action
1	000 - 007	Black-out
	008 - 057	Show 1 in auto mode
	058 - 107	Show 2 in auto mode
	108 - 157	Show 3 in auto mode
	158 - 207	Show 4 in auto mode
	208 - 255	Show 1 to 4 in music-sensitive mode

### 5.2 - 12-channel mode

Channels	Values	Action
1	<b>PAN movement</b>	
	000 - 255	PAN movement settings
2	<b>Mouvement TILT</b>	
	000 - 255	TILT movement settings
3	<b>PAN and TILT movement speed</b>	
	000 - 255	Increasing speed
4	<b>Main dimmer</b>	
	000 - 255	Intensity from 0 to 100%
5	<b>Shutter</b>	
	000 - 019	Black-out
	020 - 024	Open
	025 - 064	Fast to slow strobe effect
	065 - 069	Open
	070 - 084	Fast to slow pulse effect
	085 - 089	Open
	090 - 104	Fast to slow reversed pulse effect
	105 - 109	Open
	110 - 124	Fast to slow random strobe effect
	125 - 129	Open
	130 - 144	Fast to slow random pulse effect
	145 - 149	Open
	150 - 164	Fast to slow, reversed and random pulse effect
	165 - 169	Open
	170 - 184	Fast to slow, explosive pulse effect
	185 - 189	Open
	190 - 204	Fast to slow, random explosive pulse effect
205 - 209	Open	
210 - 224	Fast to slow sine wave effect	
225 - 229	Open	
230 - 244	Fast to slow explosion effect	
245 - 255	Open	
6	<b>Red</b>	
	000 - 255	Intensity from 0 to 100%
7	<b>Green</b>	
	000 - 255	Intensity from 0 to 100%
8	<b>Blue</b>	
	000 - 255	Intensity from 0 to 100%
9	<b>White</b>	
	000 - 255	Intensity from 0 to 100%

## 6.2 - 12-channel mode

10	<b>Colour wheel</b>	
	000 - 013	Open
	014 - 025	Red
	026 - 037	Orange
	038 - 049	Cyan
	050 - 061	Green
	062 - 073	Light green
	074 - 085	Lilac
	086 - 097	Pink
	098 - 109	Yellow
	110 - 121	Magenta
	122 - 133	Blue
	134 - 145	Temperature correction 1
	146 - 157	Temperature correction 2
	158 - 169	Temperature correction B
	170 - 182	Congo
	<b>Colour wheel rotation effects</b>	
	183 - 201	Clockwise, fast to slow rotation
	202 - 207	No rotation (The wheel maintains the current colour)
	208 - 229	Counterclockwise, slow to fast rotation
230 - 234	Open	
<b>Random colours</b>		
235 - 239	Fast	
240 - 244	Regular	
245 - 249	Slow	
250 - 255	Open	
11	<b>Zoom</b>	
	000 - 255	From 60° to 10°
12	<b>Special functions</b>	
	000 - 079	No function
	080 - 087	PAN and TILT movements reset
	088 - 090	Main reset
	091 - 160	No function
	161 - 180	Show 1 in auto mode
	181 - 200	Show 2 in auto mode
	201 - 220	Show 3 in auto mode
	221 - 240	Show 4 in auto mode
	241 - 255	Show 1 to 4 in music-sensitive mode

## 5.3 - 17-channel mode

Channels	Values	Action
1	<b>PAN movement</b>	
	000 - 255	PAN movement settings
2	<b>16-bit PAN movement</b>	
	000 - 255	Very precise PAN movement settings
3	<b>TILT movement</b>	
	000 - 255	TILT movement
4	<b>16-bit TILT movement</b>	
	000 - 255	Very precise TILT movement settings
5	<b>PAN and TILT movements speed</b>	
	000 - 255	Increasing speed
6	<b>Main dimmer</b>	
	000 - 255	Intensity from 0 to 100%
7	<b>Shutter</b>	
	000 - 019	Black-out
	020 - 024	Open
	025 - 064	Fast to slow strobe effect
	065 - 069	Open
	070 - 084	Fast to slow pulse effect
	085 - 089	Open
	090 - 104	Fast to slow reversed pulse effect
	105 - 109	Open
	110 - 124	Fast to slow random strobe effect
	125 - 129	Open
	130 - 144	Fast to slow random pulse effect
	145 - 149	Open
	150 - 164	Fast to slow, reversed and random pulse effect
	165 - 169	Open
	170 - 184	Fast to slow, explosive pulse effect
	185 - 189	Open
	190 - 204	Fast to slow, random explosive pulse effect
	205 - 209	Open
	210 - 224	Fast to slow sine wave effect
225 - 229	Open	
230 - 244	Fast to slow explosion effect	
245 - 255	Open	
8	<b>Red</b>	
	000 - 255	Intensity from 0 to 100%
9	<b>Green</b>	
	000 - 255	Intensity from 0 to 100%
10	<b>Blue</b>	
	000 - 255	Intensity from 0 to 100%
11	<b>White</b>	
	000 - 255	Intensity from 0 to 100%
12	<b>Colour wheel</b>	
	000 - 013	Open
	014 - 025	Red
	026 - 037	Orange
	038 - 049	Cyan
	050 - 061	Green
	062 - 073	Light green
	074 - 085	Lilac
	086 - 097	Pink

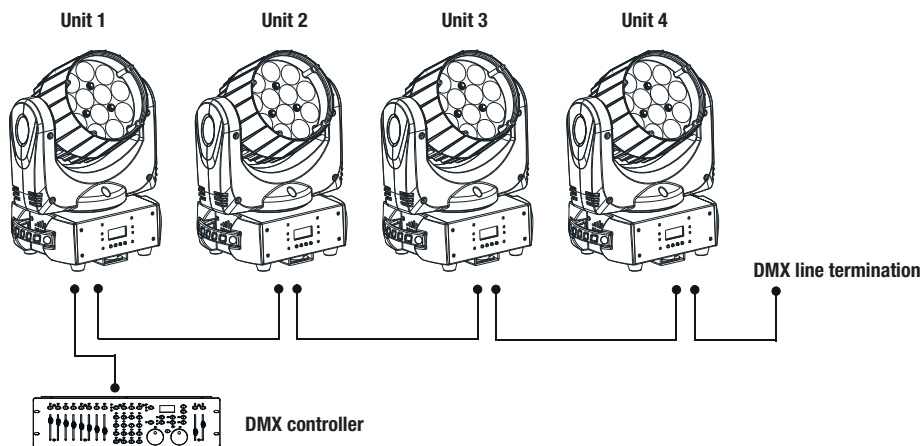
## 5.3 - 17-channel mode (continuation)

12 (continuation)	098 - 109	Yellow
	110 - 121	Magenta
	122 - 133	Blue
	134 - 145	Temperature correction 1
	146 - 157	Temperature correction 2
	158 - 169	Temperature correction B
	170 - 182	Congo
	<b>Colour wheel rotation effects</b>	
	183 - 201	Clockwise, fast to slow rotation
	202 - 207	No rotation (The wheel maintains the current colour)
	208 - 229	Counterclockwise, slow to fast rotation
	230 - 234	Open
	<b>Random colours</b>	
	235 - 239	Fast
	240 - 244	Regular
245 - 249	Slow	
250 - 255	Open	
13	<b>Zoom</b>	
	000 - 255	From 60° to 10°
14	<b>Colour temperature correction</b>	
	000 - 019	Function
	020 - 255	Temperature correction from 10 000°K to 2 500°K
15	<b>PAN and Tilt macros</b>	
	000 - 007	No function
	008 - 015	Macro 1
	016 - 023	Macro 2
	024 - 031	Macro 3
	032 - 039	Macro 4
	040 - 047	Macro 5
	048 - 055	Macro 6
	056 - 063	Macro 7
	064 - 071	Macro 8
	072 - 079	Macro 9
	080 - 087	Macro 10
	088 - 095	Macro 11
	096 - 103	Macro 12
	104 - 111	Macro 13
	112 - 119	Macro 14
	120 - 127	Macro 15
	128 - 135	Macro 16
	136 - 143	Macro 17
	144 - 151	Macro 18
	152 - 159	Macro 19
	160 - 167	Macro 20
	168 - 175	Macro 21
	176 - 183	Macro 22
	184 - 191	Macro 23
	192 - 199	Macro 24
	200 - 207	Macro 25
	208 - 215	Macro 26
	216 - 223	Macro 27
	224 - 231	Macro 28
	232 - 239	Macro 29
240 - 247	Macro 30	
248 - 255	Macro 31	

## 5.3 - 17-channel mode (continuation and end)

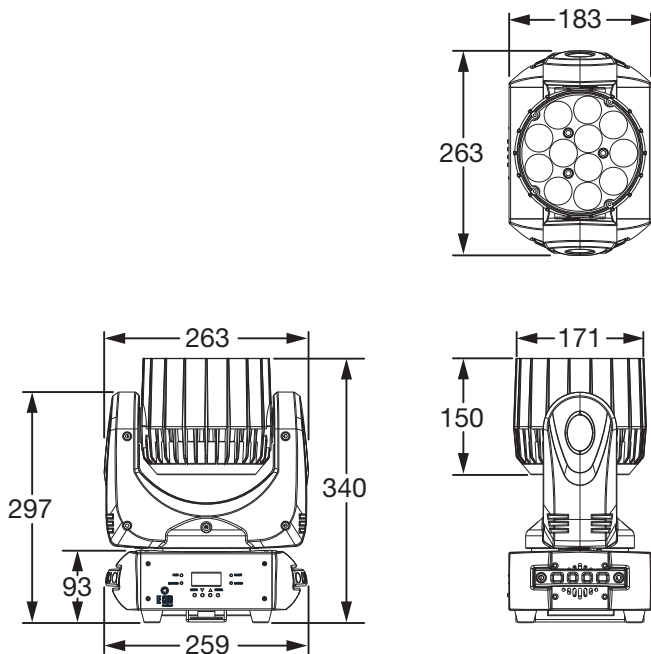
16	<b>Movement macros speed</b>	
	000 - 245	Increasing speed
	246 - 255	Music-sensitive mode
17	<b>Special functions</b>	
	000 - 079	No function
	080 - 087	PAN and TILT movements reset
	088 - 090	Main reset
	091 - 160	No function
	161 - 180	Show 1 in auto mode
	181 - 200	Show 2 in auto mode
	201 - 220	Show 3 in auto mode
	221 - 240	Show 4 in auto mode
241 - 255	Show 1 to 4 in music-sensitive mode	

## 7 - Cabling, addressing and daisy chaining



DMX Mode	Unit 1 address	Unit 2 address	Unit 3 address	Unit 4 address
1 channel	1	2	3	4
12 channels	1	13	25	37
17 channels	1	18	35	52

## 7 - Dimensions



## 8 - Notes

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.

Make sure you get the latest news and updates about the CONTEST® products on [www.contest-lighting.com](http://www.contest-lighting.com)  
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