- Use DOWN and UP button to select a value between "**no Delay**" and "**3s Delay**"
- Once the delay is selected, press the ENTER button save it.

To go back to the main menu without any change press the MENU button shortly.
If you want to go back to normal running mode: press the MENU button for about 2 seconds.

White balance
It allows the user to fine tune the three colors to achieve the perfect white

- Press the MENU button until the display shows "**White balance**".
- Press the ENTER button, the display starts blinking.
- If you want to change the default settings, press the DOWN and UP buttons to select "**RED**", "**BLUE**" or "**GREEN**".
- Press ENTER and modify the values to set a specific color temperature, confirm with ENTER. (or automatically return to the main functions without any change after 8 seconds)

To go back to the functions without any change press the MENU button again.

Dimmer Calibrate
Due to tolerances in the production process, not all LEDs have exactly the same brightness, therefore you can use this option to match the Brightness of different machines.

- Press the MENU button until "Dimmer Calibrat" is shown on the display.
- Press the ENTER button, the display starts blinking.
- Use DOWN and UP buttons to select a value between "50" (lowest brightness) and "100" (highest brightness).
- Once the brightness is selected, press the ENTER button save it.

To go back to the main menu without any change press the MENU button shortly.
If you want to go back to normal running mode: press the MENU button for about 2 seconds.

Manual Test
Used to manually check all functions of the unit.

- Press the **MENU** button to show "**Manual test**" on the display.
- Press the **ENTER** button, the display starts blinking.
- Use the **DOWN** and **UP** button to select the "**Pan**", "**Tilt**", "**Red**", "**Green**", "**Blue**", "**Dimmer**" or "**Strobe**" mode.
- Press the **ENTER** button, the display starts blinking.
- Use the **DOWN** and **UP** button adjust the value from **0** to **255** to test the unit.

To go back to the main menu without any change press the MENU button shortly.
If you want to go back to normal running mode: press the MENU button for about 2 seconds.

Temp.
Used to show the temperature inside the unit

- Press the MENU button until the display shows "**Temp.**".
- Press the ENTER button to show the internal temperature of the unit on the display.
- To go back to the functions press the MENU button again.

If you want to go back to normal running mode: press the MENU button for about 2 seconds.

Note: *The unit is equipped with a temperature protection to avoid damage to the LEDs while working under heavy conditions in venues with high temperatures. When the temperature of the LEDs reaches 50°C, the light output will slightly reduce while the display shows:* ***"HIGH LED TEMP: 50°***
If, for some reason, the temperature of the LEDs would reach a temperature over 60°C, the output will shut down while the display shows: ***" LED OFF, OVERTEMP "***

Fixture time
Used to show the number of working hours of the unit.

- Press the MENU button until **"Fixture time"** is blinking on the display.
- Press the ENTER button to show the number of working hours in the display.

To go back to the functions press the MENU button.

Firmware version
Used to show the Firmware version installed in the unit

- Press the MENU button until " **Firmware version**" is blinking on the display.
- Press the ENTER button to show the software version on the display.

To go back to the functions press the MENU button.

Defaults

Used to choose between 2 sets of default settings, often used by rental companies:
➔PRO-defaults: basic settings for use on professional DMX-controllers.
➔AUTO-defaults: basic settings for easy master/slave use.

- Press the MENU button until the display shows "**Defaults**".
- Press the ENTER: to avoid accidental loss of your settings, the display shows "**Confirm?**":
  - Use DOWN and UP buttons to select "**Yes**" or "**No**" and confirm by pressing the ENTER button.
  - When you select "**Yes**", you have the choice between 2 options, each with their own settings:

Settings	PRO def	AUTO def
Channel mode	12ch	4MSL
Slave Mode	Slave 1	Slave 1
Blackout Mode	Freeze	No
Sound State	Off	On
Sound Sense	90	90
Pan Inverse	No	No
Tilt Inverse	No	No
Backlight	No	Yes
Function Delay	3s	3s
Dimmer curve	Mode1	Mode1

Starting from these defaults you can easily make your additional settings. The other setup parameters remain unchanged.
If you want to go back to normal running mode: press the MENU button for about 2 seconds.

Reset

Used to force a reset of the unit.

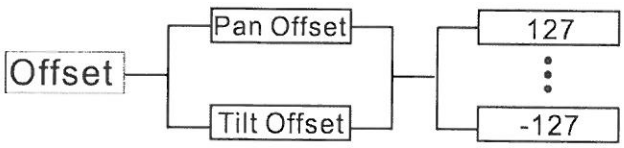
- Press the MENU button until "**Reset**" is blinking on the display.
- Press the ENTER to reset all channels to their standard position.
- To go back to the functions press the MENU button.

Please also check the chapter about the DMX-channel configuration of the unit to find out how you can force a reset by DMX.

Offset Adjust

Used to adjust the home position:

If you're not already in the setup menu, just press the MENU button shortly to enter the setup menu ("DMX Address" is shown on the display)



- Now press the ENTER button for at least 5 seconds to go into offset mode.
- Use DOWN and UP buttons to select the pan or the tilt
- Press the ENTER button, the display starts blinking.
- Use DOWN and UP buttons to adjust the home position
- Press the ENTER button to confirm your setting

To go back to the functions without any change press the MENU button again.
If you want to go back to normal running mode: press the MENU button for about 2 seconds, the new offset parameters for the home position is preserved in flash memory.

ELECTRICAL INSTALLATION + ADDRESSING

⚠ **Important: The electrical installation should be carried out by qualified personal only, according to the regulations for electrical and mechanical safety in your country.**

Every time you turn the unit on, it will show "**BT-W36L3**" on the display and move all the motors to their 'home' position and you may hear some noises for about 20 seconds. After that the unit will be ready to receive DMX signal or run the built-in programs.

YOU CAN OPERATE THE UNIT IN THREE WAYS:

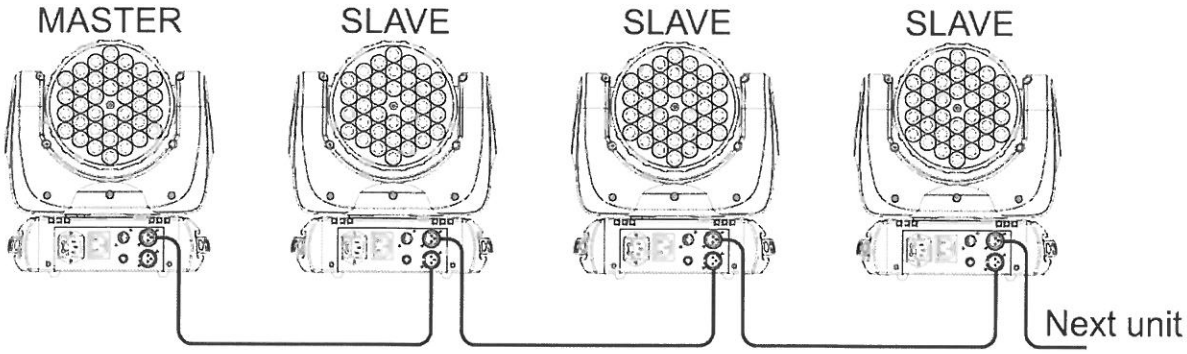
- By master/slave built-in preprogram function
- By RF8 OR CA-8 easy controller
- By universal DMX controller (1MSL, 4MSL, 8CH, 12CH, 15CH DMX mode)

- **BY MASTER/SLAVE BUILT-IN PREPROGRAM FUNCTION:**

  Select this function when you want an instant show. By linking the units in master/slave connection, the first unit will control the other units to give an automatic, sound activated, synchronized light show. Its DMX input will have nothing plugged into it, and its master-LED will be constantly on and sound-LED will flash to the music.

  Important! This function only works when the blackout mode in the menu of the master is set to OFF, otherwise nothing will happen! Read more about this option in the "Main Menu" paragraph.

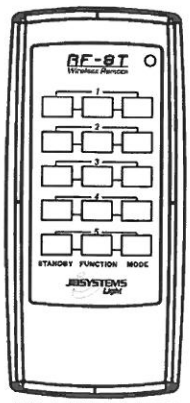
  - **MASTER has 4 built-in shows:** You can select **show 1**, **show 2**, **show 3** or **show 4** directly in the menu of the master.
  - **SLAVES have 2 working options:** The other units are set to slave mode (slave-LED is constantly on). In order to create a great light show you can introduce contrast movements (pan/tilt of slave is inversed) → In the menu of the slave units you can go to option "**Slave mode**" and select:
    - **"Slave 1"→ Normal slave:** slave works in sync with the master.
    - **"Slave 2" → 2 light show:** slave works in opposite with the master.



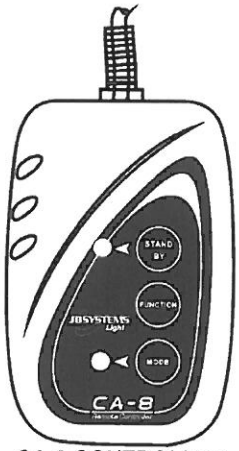
- **BY RF8 OR CA8 EASY CONTROLLER**

When used in standalone or master/slave mode we strongly advise you to use the CA-8 "Wired easy controller" or RF-8SET "Wireless easy controller". The new DMX remote control is the **RF-DMX CONVERTER** who allows the user to control several different types of DMX projectors.

- **CA-8 wired remote:** Connect the controller to the jack input of the first unit (master).
- **RF-8SET wireless remote:** the wireless remote has two parts:
  - **RF-8T:** small RF-transmitter that can control up to 5 effects.
  - **RF-8R:** small RF-receiver that should be connected to the DIN 5pin input of the BT-W36L3. See the installation manual of the receiver for more information.



RF-8 WIRELESS



CA-8 CONTROLLER

Now you can control all the connected units:

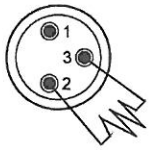
STANDBY BUTTON:
Press this button to start/stop blackout mode on all connected units.

MODE/FUNCTION BUTTONS:
With the MODE button you can select 3 different modes:

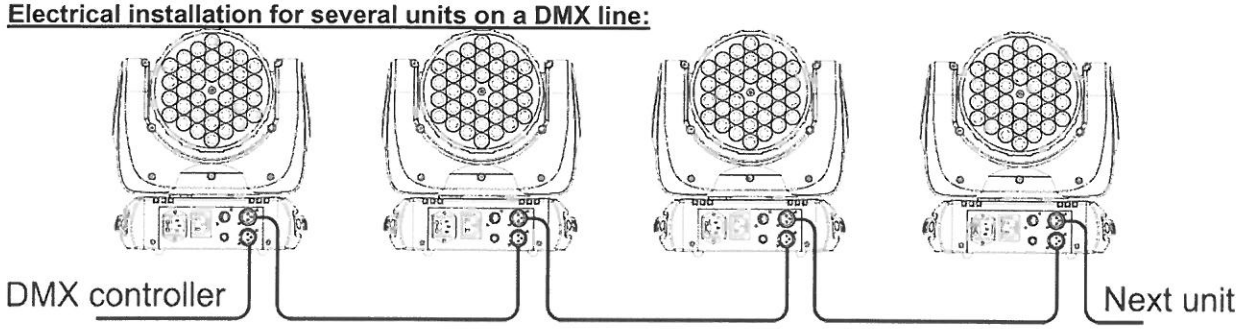
Stand By	Blackout the unit			
Function	1. Sync. Strobe 2. Two-light strobe 3. Sound Strobe	Select Show 1-4	Fade speed - slow Fade speed - fast Fade speed - middle	1.Pan positioning 2.Tilt positioning 3.Dimmer or Color change
Mode	LED OFF	LED blinking	LED ON	LED FAST blinking

HOW TO CONNECT THE UNIT BY DMX

The DMX-protocol is a widely used high speed signal to control intelligent light equipment. You need to "daisy chain" your DMX controller and all the connected light effects with a good quality XLR M/F balanced cable. To prevent strange behavior of the light effects, due to interferences, you must use a 90Ω to 120Ω terminator at the end of the chain. Never use Y-cables!

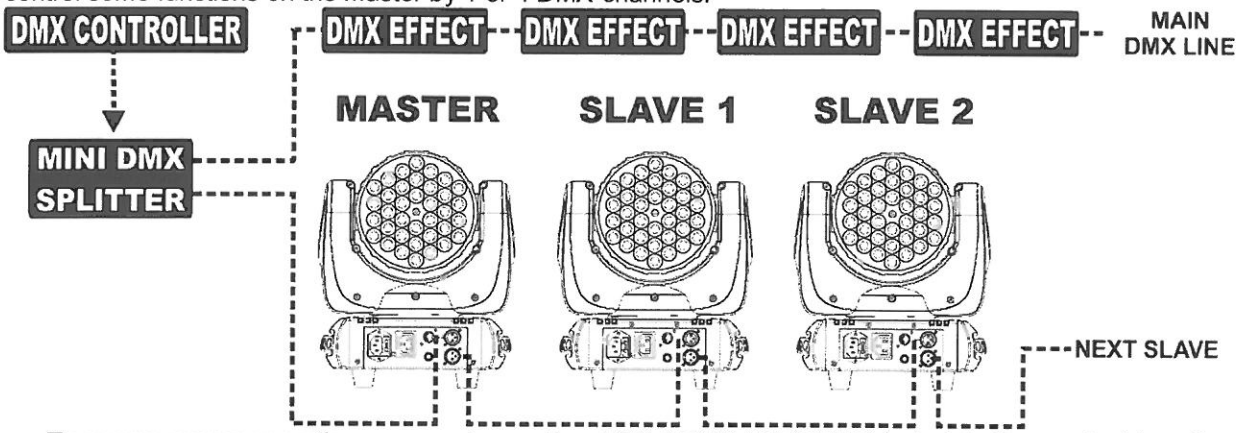


Electrical installation for several units on a DMX line:



Each light effect in the chain must have its proper starting address so it knows which commands from the controller it has to decode.

Electrical installation for two or more units in DMX-master/slave:
In this mode the units will show a synchronized show, working to the rhythm of the beat but you can still control some functions on the master by 1 or 4 DMX-channels.



- To assure proper operation you need an optional "Mini DMX-SPLITTER" to isolate the master/slave line from the main DMX-line, see drawing.
- Connect 2 to maximum 16 units together using good quality balanced microphone cables. The first unit in the chain will act as the master, the other units will act automatically as slaves.
- Set the master to 1MSL or 4MSL channel mode (see previous chapter). Check the DMX-chart below to see the difference between both channel modes.
- For the DMX-controller the master and his slaves can now be considered as 1 virtual effect that needs a start address so it can be controlled as any other DMX-unit in the DMX chain: see "DMX Address" in the

chapter "Main Menu" to see how you can set the DMX-start address.

- Make sure that all units are connected to the mains.
- Set the DMX-controller according to the DMX-chart below.
- Done!

Remark: *in order to work well to the rhythm of the music, make sure that the option "Sound State" on the master is set to "On" (see previous chapter)*

HOW TO SET THE RIGHT STARTING ADDRESS:

Refer to the previous chapter (DMX-512 address setting) to learn how to set the starting address on this unit. The starting address of each unit is very important. Unfortunately it is impossible to tell you in this user manual which starting addresses you have to use because this completely depends on the controller you will use... So please refer to the user manual of your DMX-controller to find out which starting addresses you must set.

DMX-CONFIGURATION OF BT-W36L3:

1MSL / 4MSL / 1CH DMX mode

1 Channel Mode	1 MSL Channel Mode	4 MSL Channel Mode			
Ch1	Ch1	Ch1	Ch2	Ch3	Ch4
Chase	Chase	Master Dimmer	Strobe	Color	Movement
248-255 Random Shows	248-255 Random Shows	255 Sound Active; 100%; 0%	248-255 No Strobe	248-255 Sound Active	248-255 Random Movement
188-247 Show 4	188-247 Show 4		240-247 Sound Strobe	218-247 Color 8	
128-187 Show 3	128-187 Show 3	008-255	Fast ⚡⚡⚡	188-217 Color 7	188-247 Movement 4
068-127 Show 2	068-127 Show 2		⚡⚡	158-187 Color 6	
008-067 Show 1	008-067 Show 1		⚡	128-157 Color 5	128-187 Movement 3
000-007 Blackout	000-007 Blackout	000-007 Blackout	Slow	098-127 Color 4	
		0	008-239	068-097 Color 3	068-127 Movement 2
				038-067 Color 2	
				008-037 Color 1	008-067 Movement 1
			000-007 No Strobe	000-007 White	000-007 No Gobo

8CH DMX mode

Ch1	Ch2	Ch3	Ch4	Ch5	Ch6	Ch7	Ch8
Pan	Tilt	Strobe	Red	Green	Blue	Dimmer	Function
255 540°	255 270°	248-255 Open	255 100%	255 100%	255 100%	255 100%	240-255 Stand alone
		240-247 Random Strobe					210-239 No Function
		232-239 Open					200-209 Reset All
		190-231 Slow Close Fast Open					090-199 No Function
		182-189 Open					080-089 Disable Blackout while Pan/Tilt Move
		140-181 Fast Close Slow Open					070-079 Enable Blackout while Pan/Tilt Move
		132-139 Open					
		Fast ⚡⚡⚡					
		16-131 ⚡⚡					
		⚡ Slow					
		0-15 No Function					000-069 No Function
0 0°	0 0°		0 0%	0 0%	0 0%	0 0%	

15CH DMX mode

Ch1	Ch2	Ch3	Ch4	Ch5	Ch6	Ch7	Ch8
Pan	Pan Fine	Tilt	Tilt Fine	Pan/Tilt Speed	Pan/Tilt Macro	Pan/Tilt Macro Speed	**Function**
255 540° 0 0°	255 0	255 200° 0 0°	255 0	255 Slow 0 Fast	**236-255 Macro 12** **216-235 Macro 11** **196-215 Macro 10** **176-195 Macro 9** **156-175 Macro 8** **136-155 Macro 7** **116-135 Macro 6** **096-115 Macro 5** **076-095 Macro 4** **056-075 Macro 3** **036-055 Macro 2** **016-035 Macro 1** **000-015 No effect**	255 Slow 0 Fast	240-255 Stand alone 210-239 No Function 200-209 Reset All 090-199 No Function 080-089 Disable Blackout while Pan/Tilt Move 070-079 Enable Blackout while Pan/Tilt Move 000-069 No Function

Ch9	Ch10	Ch11	Ch12	Ch13	Ch14	Ch15
Dimmer	**Strobe**	**Red**	**Green**	**Blue**	Color	Fade Speed
255 100% 0 0%	248-255 Open 240-247 Random Strobe 232-239 Open 190-231 Slow Close Fast Open 182-189 Open 140-181 Fast Close Slow Open 132-139 Open Fast 16-131 Slow 0-15 Open	255 100% 0 0%	255 100% 0 0%	255 100% 0 0%	192-255 Color Fade 1-16 128-191 Color Macro 1-16 8-127 Color 1-32 0-7 Normal	255 Fast 0 Slow

12CH DMX MODE:

		Electronic shutter effect
1	0-19	Shutter closed
	20 - 49	Shutter open
	50 - 64	Strobe 1 (fast → slow)
	65 - 69	Shutter open
	70 - 84	Strobe 2: opening pulse (fast → slow)
	85 - 89	Shutter open
	90 - 104	Strobe 3: closing pulse (fast → slow)
	105 - 109	Shutter open
	110 - 124	Strobe 4: random strobe (fast → slow)
	125 - 129	Shutter open
	130 - 144	Strobe 5: random opening pulse (fast → slow)
	145 - 149	Shutter open
	150 - 164	Strobe 6: random closing pulse (fast → slow)
	165 - 169	Shutter open
	170 - 184	Strobe 7: burst pulse (fast → slow)
	185 - 189	Shutter open

	190 - 204	Strobe 8: random burst pulse (fast → slow)
	205 - 209	Shutter open
	210 - 224	Strobe 9: sine wave (fast → slow)
	225 - 229	Shutter open
	230 - 244	Strobe 10: burst (fast → slow)
	245 - 255	Shutter open
2	0-255	**Dimmer**
3	0-255	**Pan**
4	0-255	**Pan Fine (Least significant bit)**
5	0-255	**Tilt**
6	0-255	**Tilt Fine (Least significant bit)**
7		**Fixture control settings (*1)**
	0-9	No function
	10-14	Reset entire fixture
	15 - 39	No function
	40 - 44	Pan and tilt speed = NORM
	45 - 49	Pan and tilt speed= FAST
	50 - 54	Pan and tilt speed = SLOW
	55 - 59	No function
	60 - 64	Fan mode FULL
	65 - 69	No function
	70 - 74	Fan mode REGULATED
	75 - 89	No function
	90 - 94	RGB control mode (calibrated RGB) (*2)
	95 - 99	No function
	100 - 104	RAW control mode (uncalibrated RGB) (*3)
	105 - 109	No function
	110 - 114	Fast dimming, speed of changes unrestricted
	115 - 119	No function
	120 - 124	Smooth dimming, speed of changes restricted slightly
	125 - 129	No function
	130 - 134	Enable Blackout while Pan tilt
	135 - 139	No function
	140 - 144	Disable Blackout while Pan tilt
	145 – 249	No function
	250 - 255	Illuminate display
8		**Color wheel effect (*4)**
	0-9	Open. RGB color mixing
	10-14	LEE 790 - Moroccan pink
	15 - 19	LEE 157 - Pink
	20 - 24	LEE 332 - Special rose pink
	25 - 29	LEE 328 - Follies pink
	30 - 34	LEE 345 - Fuchsia pink
	35 - 39	LEE 194 - Surprise pink
	40 - 44	LEE 181 - Congo Blue
	45 - 49	LEE 071 - Tokyo Blue
	50 - 54	LEE 120 - Deep Blue
	55 - 59	LEE 079 - Just Blue
	60 - 64	LEE 132 - Medium Blue
	65 - 69	LEE 200 - Double CT Blue
	70 - 74	LEE 161 - Slate Blue
	75 - 79	LEE 201 - Full CT Blue
	80 - 84	LEE 202 - Half CT Blue
	85 - 89	LEE 117 - Steel Blue
	90 - 94	LEE 353 - Lighter Blue

	95 - 99	LEE 118 - Light Blue
	100 - 104	LEE 116 - Medium Blue Green
	105 - 109	LEE 124 - Dark Green
	110 - 114	LEE 139 - Primary Green
	115 - 119	LEE 089 - Moss Green
	120 - 124	LEE 122 - Fern Green
	125 - 129	LEE 738 - JAS Green
	130 - 134	LEE 088 - Lime Green
	135 - 139	LEE 100 - Spring Yellow
	140 - 144	LEE 104 - Deep Amber
	145 - 149	LEE 179 - Chrome Orange
	150 - 154	LEE 105 - Orange
	155 - 159	LEE 021 - Gold Amber
	160 - 164	LEE 778 - Millennium Gold
	165 - 169	LEE 135 - Deep Golden Amber
	170 - 174	LEE 164 - Flame Red
	175 - 179	Open
		Color wheel rotation effect
	180 - 201	Clockwise, fast → slow
	202 - 207	Stop (this will stop wherever the color is at the time)
	208 - 229	Counter-clockwise, slow → fast
	230 - 234	Open
		Random color
	235 - 239	Fast
	240 - 244	Medium
	245 - 249	Slow
	250 - 255	Open
9	0-255	**Red 0 to 100%**
10	0-255	**Green 0 to 100%**
11	0-255	**Blue 0 to 100%**
12	0-255	**Color Temperature control 10000K-2500K**

Extra information on some special features

1. To avoid accidental activation/de-activation of the "fixture control settings" a certain time lag is build in. This means that you have to keep the DMX-value for a certain time before the selected function is activated. This delay can be set between 0s and 3s delay, please refer to the setup menu "Function delay" paragraph for more information.
2. **RGB** is a calibrated RGB-mode using the white balance in the setup menu as a reference. This results in slightly less output than **RAW** mode but consistent color balance across fixtures.
3. **RAW** is an uncalibrated RGB-mode which means that it does NOT use the white balance settings as a reference. This mode gives maximum output and slightly more saturated color, but there may be inconsistency in color balance between fixtures.
4. To keep maximum accuracy, the LEE filter colors selected on channel8 are always referred to the white balance settings made in the setup menu. Choosing the RAW-mode will not affect the LEE-filter colors.

MAINTENANCE

- Make sure the area below the installation place is free from unwanted persons during servicing.
- Switch off the unit, unplug the mains cable and wait until the unit has been cooled down.

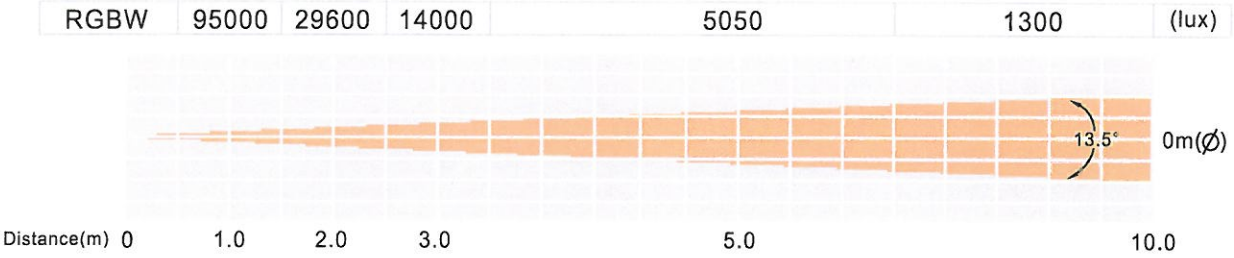
During inspection the following points should be checked:

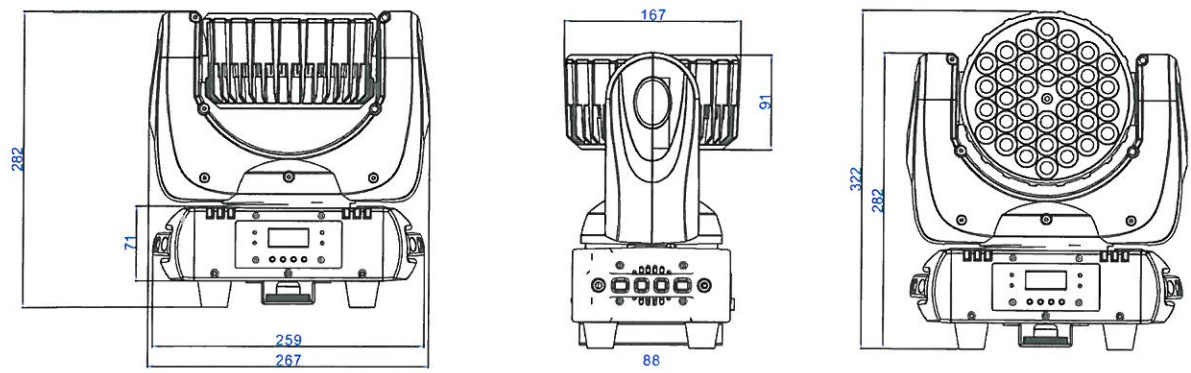
- All screws used for installing the device and any of its parts should be tightly fastened and may not be corroded.
- Housings, fixations and installations spots (ceiling, truss, suspensions) should be totally free from any deformation.
- When an optical lens is visibly damaged due to cracks or deep scratches, it must be replaced.
- The mains cables must be in impeccable condition and should be replaced immediately when even a small problem is detected.
- In order to protect the device from overheat the cooling fans (if any) and ventilation openings should be cleaned monthly.
- The interior of the device should be cleaned annually using a vacuum cleaner or air-jet.
- The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surroundings can cause greater accumulation of dirt on the unit's optics.
    - Clean with a soft cloth using normal glass cleaning products.
    - Always dry the parts carefully.

Attention: We strongly recommend internal cleaning to be carried out by qualified personnel!

SPECIFICATIONS

Mains Input:	AC 100 - 240V, 50/60Hz
Power consumption:	150 Watt
Fuse:	250V 6.3A slow blow (20mm glass)
Sound Control:	Internal microphone
DMX connections:	3pin XLR male / female
DMX channels used:	1 / 4 / 8 / 12 / 15 channels
Lamp:	3W LED x 36 (12 red, 12 green, 12 blue)
Size:	see drawing below
Weight:	5.7 kg





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