

MINI-HEAD 10W

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.



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



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.

Symbols used



This symbol signals an important safety precaution.



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



The CAUTION symbol signals a risk of product deterioration.

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...

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.



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



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.

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.

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 - Introduction

Thank you for purchasing the MINI-HEAD10W. You now have in your possession a high-quality, powerful and intelligent device absolutely perfect for parties, animations, live events.

The MINI-HEAD10W is a compact moving head with very fast movements, capable of projecting colourful patterns.

This user guide will allow you to understand and use all the functions of the MINI-HEAD10W.

Please keep it within reach during the first uses in order to get familiar with the unit.

3 - Description

3.1 - Description of the unit

The MINI-HEAD10W offers many possibilities:

- It can be operated via 3 modes: music-sensitive, DMX or automatic.
 - It features a powerful diode and high-quality optical system, producing a very surprising output for such a small device.
 - The light weight of its head and its powerful motors allow very sharp and fast movements.
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- 10W LED - 30.000
 - Beamwidth: 14°
 - Digital display with drop-down menu
 - IEC power input
 - Modes and functions:
 - 1 to 10 DMX channels
 - Built-in programs
 - Speed settings
 - Music-sensitive mode
 - Power consumption: 20 W
 - Power supply: 100/240V, AC - 50/60Hz
 - DMX input and output
 - Net weight: 2.7 kg

3.2 - Installation

MINI-HEAD10W can be installed in two different ways:

1. Fixated on a structure or stand thanks to its fixation bracket.

When hanging the device, please make sure that:

- The fixation bracket must be high enough to prevent the public to be hurt by accident, or intentionally.
- The moving head must be far from the ceiling, and no elements must be on top of it to avoid accumulations of heat.
- The fixation bracket must be strong enough to hold the MINI-HEAD10W. Only use certified accessories.
- No cable must disturb the audience.

Note : It is your responsibility to respect the local security rules to position and use your projector.

2. Standing on its feet.

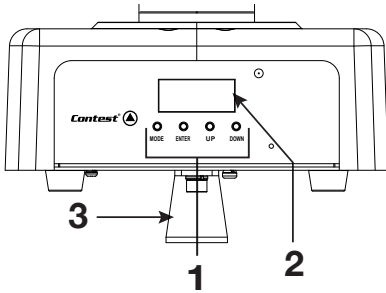
In this case, please make sure the support is stable and resistant enough for the moving head to be stabilised.

Please make sure the moving head cannot slip while being used. If need be, use a safety cable.



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.

3.3 - Overview



1 Menu settings

MENU

Press MENU to access and select the functions.

ENTER

Press ENTER to access a sub-menu and or save changes selected via the UP and DOWN buttons.

UP and DOWN

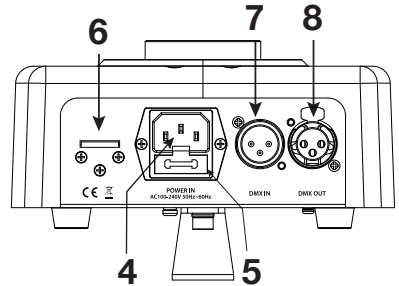
Press UP or DOWN to increase/decrease the adjustable values or browse the sub-menus.

2 Display

This intuitive display allows you to configure your projector. Please refer to the next paragraphs for more details about the projector configuration. The display backlight can be deactivated via the Back Light command menu.

3 Hanging bracket

Allows you to hang the moving head to a structure or a lighting stand. Please make sure you respect the safety rules.



4 Power input

Allows you to connect the projector to an electrical outlet. Please make sure the voltage is in adequation with the product indications.

5 Fuse

If need to replace the fuse, please make sure the new fuse has exactly the same characteristics as the original one.

6 Safety ring

This ring allows you to use a mandatory safety cable for public.

7 DMX input

3-pin female XLR plug hardwired as follows :

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

8 DMX output

3-pin male XLR plug hardwired as follows :

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

4 - Internal menus

ADDR	A001 ~AXXX (AXXX)	DMX addressing
SOUN	MAST (SO-M)	Music-sensitive or Master mode (to control several daisy-chained MINI-HEAD10W via DMX)
	ALON (SO-A)	Music-sensitive mode
AUTO	MAST (AU-M)	Automatic or Master mode (to control several daisy-chained MINI-HEAD10W via DMX)
	ALON (AU-A)	Automatic mode
SHOW	SH01-SH02-SH03-SH04- SH00	Selection of the Auto or Sound show. SH00 is a sequence including shows 1 to 4.
TEST	CH XX	Tests each channel from 0 to 255
MODE	M001 -M002-M003	DMX mode selection (M001=1 channel, M002=8 channels, M003=10 channels)
DMX	CLOS/ HOLD /SOUN/AUTO	Mode selection in case of DMX signal interruption. Hold: holds onto the last DMX value received CLOS: Black-out soun: Launches a program in music-sensitive mode Auto: Launches a program in automatic mode
RDIS	ON/ OFF	ON=reverses the display OFF= display reversing deactivated
MIC	M-XX (70)	Configures the microphone sensitivity from 0 to 99
InvP	ON/ OFF	ON= Reverses the PAN movements OFF= Standard PAN movements
InvT	ON/ OFF	ON= Reverses the TILT movements OFF= Standard TILT movements
SPED	SPD1-SPD4	Movement speed settings from 1 to 4
REST	ALL	Resets all motors
	PATI	Resets PAN and TILT motors
	COLO	Resets the colour wheel
	GOBO	Resets the gobo wheel
LOAD	ON/OFF	Resets to factory settings
CALI	PASS	Use the password 050 to access the motors settings described below. These settings can only be changed by a qualified technician
	PAN	0-255 PAN calibration
	TILT	0-255 TILT calibration
	COLO	0-255 Colour wheel calibration
	GOBO	0-255 Gobo wheel calibration
TEMP	xxx	Temperature of the projector (°C)
TIME	0000-9999Hour	Total operating hours of the moving head
VER	V1.01	Firmware version

5 - The various DMX modes

1-channel mode: allows you to launch the pre-programmed shows (refer to paragraph 5.1 for more details about Shows).

Channels	Values	Action
CHANNEL 1	000-007	Black out
	008-015	Show 0 (Music-sensitive mode OFF)
	016-063	Show1 (Music-sensitive mode ON)
	064-111	Show2 (Music-sensitive mode ON)
	112-159	Show3 (Music-sensitive mode ON)
	160-207	Show4 (Music-sensitive mode ON)
	208-255	Show0 (Music-sensitive mode ON)

8-channel mode:

Channels	Values	Action
1	000 - 255	PAN Movement
2	000 - 255	TILT Movement
3	000 - 007	Black out
	008-255	Main dimmer from 0 - 100%
4		Strobe
	000 - 015	Open
	016 - 131	Strobe at increasing speed
	132 - 139	Open
	140 - 181	Pulse effect
	182 - 189	Open
	190 - 231	Reversed pulse effect
	232 - 239	Open
	240 - 247	Random strobe
	248 - 255	Open
5		Colour wheel
	000-014	White (open)
	015-050	Colour 1
	051-085	Colour 2
	086-115	Colour 3
	116-150	Colour 4
	151-185	Colour 5
	186-215	Colour 6
	216-255	Colour 7
6		Gobo wheel
	000-014	Open
	015-050	Gobo 1
	051-085	Gobo 2
	086-115	Gobo 3
	116-150	Gobo 4
	151-185	Gobo 5
	186-215	Gobo 6
	216-255	Gobo 7

8-channel mode (continuation) :

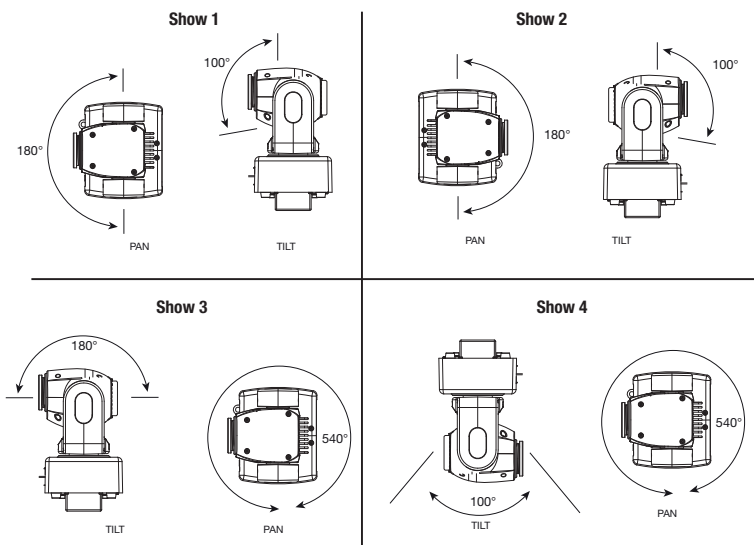
Channels	Values	Action
7		Special functions
	000 - 069	No function
	070 - 079	Black-out during PAN and TILT movements
	080 - 089	No black-out during PAN and TILT movements
	090 - 099	Black-out during colour changes
	100 - 109	No function
	110 - 119	Black-out during gobo changes
	120 - 199	No function
	200 - 209	General reset
	210 - 255	No function
8	000-007	Black out
	008-015	Show 0 (Music-sensitive mode OFF)
	016-063	Show1 (Music-sensitive mode ON)
	064-111	Show2 (Music-sensitive mode ON)
	112-159	Show3 (Music-sensitive mode ON)
	160-207	Show4 (Music-sensitive mode ON)
	208-255	Show0 (Music-sensitive mode ON)

10-channel mode:

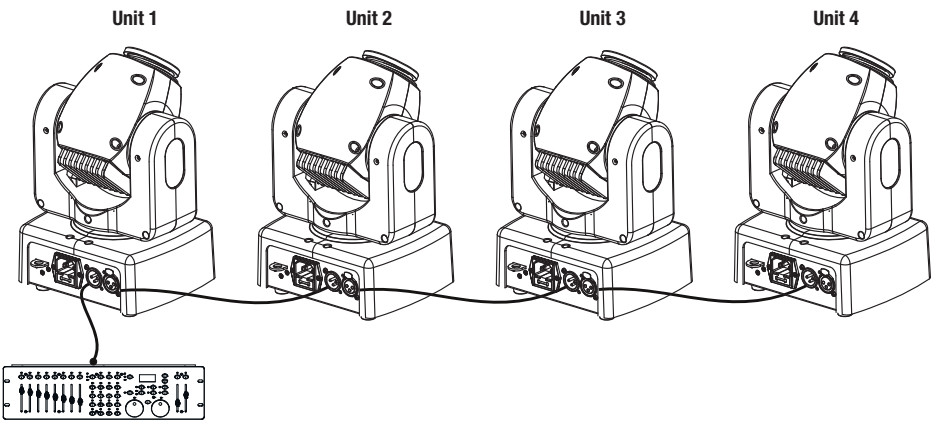
Channels	Values	Action
1	000 - 255	PAN Movement
2	000 - 255	16-bit PAN Movement
3	000 - 255	TILT Movement
4	000 - 255	16-bit TILT Movement
5	000 - 007	Black out
	008-255	Main dimmer from 0 - 100%
6 Strobe	000 - 015	Open
	016 - 131	Strobe at increasing speed
	132 - 139	Open
	140 - 181	Pulse effect
	182 - 189	Open
	190 - 231	Reversed pulse effect
	232 - 239	Open
	240 - 247	Random strobe
	248 - 255	Open
7 Colour wheel	000-014	White (open)
	015-050	Colour 1
	051-085	Colour 2
	086-115	Colour 3
	116-150	Colour 4
	151-185	Colour 5
	186-215	Colour 6
	216-255	Colour 7
8 Gobo wheel	000-014	Open
	015-050	Gobo 1
	051-085	Gobo 2
	086-115	Gobo 3
	116-150	Gobo 4
	151-185	Gobo 5
	186-215	Gobo 6
	216-255	Gobo 7
9 Special functions	000 - 069	No function
	070 - 079	Black-out during PAN and TILT movements
	080 - 089	No black-out during PAN and TILT movements
	090 - 099	Black-out during colour changes
	100 - 109	No function
	110 - 119	Black-out during gobo changes
	120 - 199	No function
	200 - 209	General reset
	210 - 255	No function
10 Shows	000-007	Black out
	008-015	Show 0 (Music-sensitive mode OFF)
	016-063	Show1 (Music-sensitive mode ON)
	064-111	Show2 (Music-sensitive mode ON)
	112-159	Show3 (Music-sensitive mode ON)
	160-207	Show4 (Music-sensitive mode ON)
	208-255	Show0 (Music-sensitive mode ON)

5.1 - Movement limitations

In order to avoid lighting effects over untargeted areas (such as ceilings, room angles, etc.) each show has its own PAN and TILT ranges. Show 0 launches a sequence including shows 1 to 4.

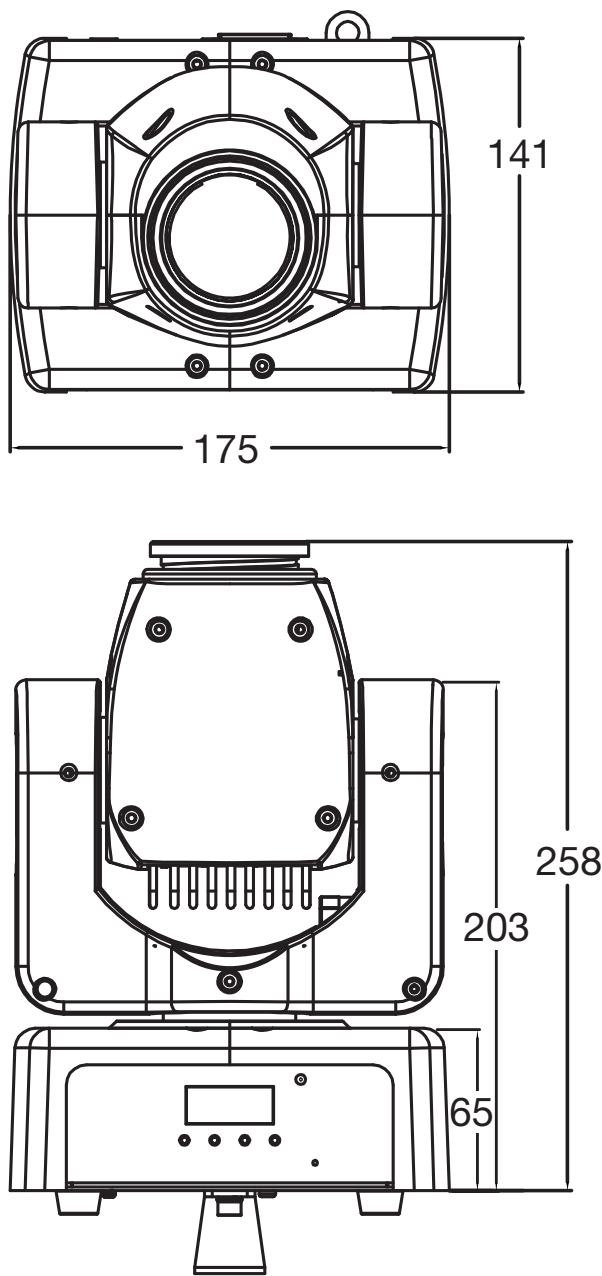


6 - DMX cabling and addressing for each mode

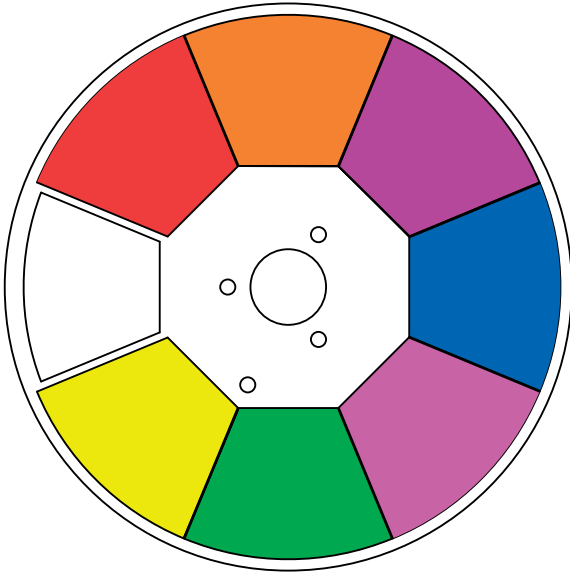


DMX mode	Unit 1 address	Unit 2 address	Unit 3 address	Unit 4 address
1 channel	1	2	3	4
8 channels	1	09	17	25
10 channels	1	11	21	30

7 - Dimensions



8 - Gobo and colour wheels:



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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