

MINICUBE-6TCb

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 .

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.

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 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 MINICUBE-6TCb. You now have in your possession a high-quality, powerful and intelligent device absolutely perfect for parties, animations, live events...

This user guide will allow you to understand and use all the functions of the MINICUBE-6TCb.

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

3 - Description

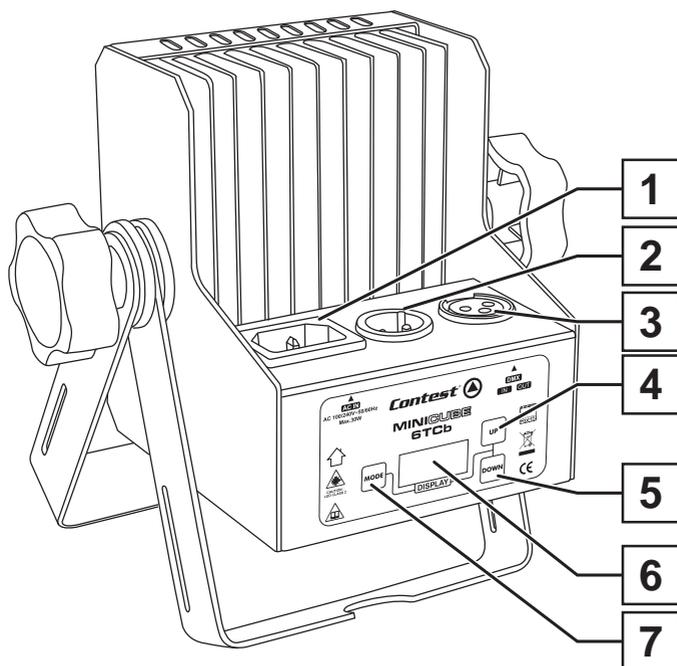
3.1 - Description of the unit

The MINICUBE is a compact projector to be integrated anywhere while offering maximum performances. It features 6x3W tricolour LEDs delivering a powerful and uniform output.

Its many internal programs allow you to use it without remote control.

- Light source: 6x3W tricolour LEDs
- LED: 3-in-1 RGB
- Expected lifespan of 30.000 hours
- Low temperature, low power consumption, can work many hours non-stop
- Modes:
 - DMX
 - Autonomous
 - Music-sensitive
- Master/Slave (Music-sensitive or automatic)
- Beamwidth: 30°
- Power supply: 230V - 50Hz
- Power consumption: 30 Watts
- Fuse: F1A
- Dimensions: 166 x 180 x 110 mm
- Net weight: 1.35 kg

3.2 - Description of the dashboard



- 1 Power input socket**
Allows you to connect the unit to an electrical outlet.
Please make sure the unit is compatible with the voltage delivered by the outlet.

- 2 DMX input**
3-pin male XLR plug hardwired as follows :
- Mass: 1
- Negative signal: 2
- Positive signal: 3
This plug can be used to carry an incoming DMX signal from another projector or DMX controller to the MINICUBE.

- 3 DMX output**
This plug can be used to daisy chain projectors.
Same configuration as the DMX input.

- 4 UP button**
Allows you to increase the values in the menus.

- 5 Touche DOWN**
Allows you to decrease the values in the menus.

- 7 Display**
Allows you to visualise the status of the device and internal menu.

Note about the display when the unit is in DMX mode:

- The letter **d** will flash, alternating with the DMX address.
- If a DMX signal is detected via the DMX input, the decimal point will be lit.

- 7 MODE button**
Allows you to enter and browse the internal menu.

Display shutdown

The display automatically turns off after a 25-second period of inactivity.

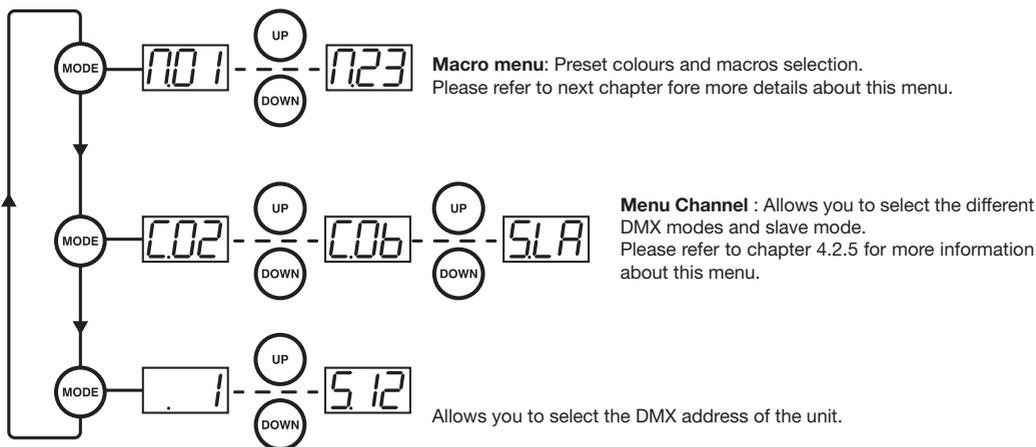
The first pressure on one of the 3 buttons reactivates the display without modifying any settings.

DMX signal interruption

In such cases, the unit will stay on hold until an incoming DMX signal is detected.

4 - Functions

4.1 - Using the menu



4.2 - Macros description

Macros : **001** to **015**

The macros include 10 preset colours and 13 sequences of preset colours.
Sequences can feature either step or crossfade transitions.

4-2-1 More details about the Macro menu

M01	Red: R255 - G000 - B000
M02	Orange: R255 - G070 - B000
M03	Yellow: R255 - G100 - B000
M04	Green: R000 - G255 - B000
M05	Cyan: R000 - G255 - B255
M06	Blue: R000 - G000 - B255
M07	Pink: R255 - G000 - B100
M08	Magenta: R255 - G000 - B100
M09	Cool white: R255 - G255 - B255
M10	Warm white: R255 - G255 - B100
M11	Sequence with the 10 fixed colour Step transitions
M12	Sequence with the 10 fixed colour Crossfade transitions
M13	Non-stop Red to Orange crossfade

M14	Non-stop Green to Blue crossfade
M15	Non-stop Warm White to Cool White crossfade
M16	Colour macro 6: Pink to Sky Blue crossfade
M17	Colour macro 7: White, Green, Red, Blue and Yellow crossfade
M18	Colour macro 8: Blue, Pink and Yellow
M19	Colour macro 9: fondu Rose, Jaune, Vert et Bleu
M20	Colour macro 10: Pink, Magenta, Yellow, Green and Blue step
M21	Colour macro 11: Pink, Blue and Yellow step
M22	Colour macro 12: Magenta, Green and Blue step
M23	Colour macro 13: Pink and Blue step

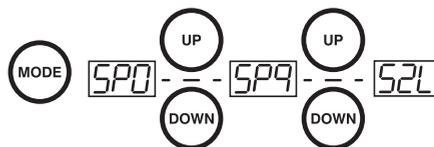
Note : The R, G and B values represent the DMX values of the Red, Green and Blue channels

4.2.2 - Configuring the macros speed

When macros are activated (M11 to M23) you can configure their speed or activate the music-sensitive mode by pressing the MENU button for 2 seconds.

Press and hold the MENU button, then use the UP and DOWN buttons to select the speed.

The S2L (Sound to light) value represents the music-sensitive mode.



Available speed in step mode	
S2L	Music-sensitive
SP0	10 seconds per step (6 BPM)
SP1	5 seconds per step (12 BPM)
SP2	2 seconds per step (30 BPM)
SP3	1 second per step (60 BPM)
SP4	1,33 step per second (80 BPM)
SP5	1,66 step per second (100 BPM)
SP6	2 steps per second (120 BPM)
SP7	3 steps per second (180 BPM)
SP8	4 steps per second (240 BPM)
SP9	8 steps per second (480 BPM)

Available speed in crossfade mode	
SP0	20 seconds per step (3 BPM)
SP1	10 seconds per step (6 BPM)
SP2	4 seconds per step (15 BPM)
SP3	2 seconds per step (30 BPM)
SP4	0,66 step per second (40 BPM)
SP5	0,833 step per second (50 BPM)
SP6	1 step per second (60 BPM)
SP7	1,5 step per second (90 BPM)
SP8	2 steps per second (120 BPM)
SP9	4 steps per second (240 BPM)

4.2.3 - The various DMX modes

2-channels mode: the display indicates 

CHANNEL 1		CHANNEL 2	
000 - 010	Off	No function	
011 - 020	Red: R255 - G000 - B000	000 - 255 : Dimmer	
021 - 030	Orange: R255 - G070 - B000		
031 - 040	Yellow: R255 - G155 - B000		
041 - 051	Green: R000 - G255 - B000		
052 - 061	Cyan: R000 - G255 - B255		
062 - 071	Blue: R000 - G000 - B255		
072 - 081	Pink: R255 - G000 - B255		
082 - 092	Magenta: R255 - V000 - B100		
093 - 102	Cool white: R255 - V255 - B255		
103 - 112	Warm white: R255 - V255 - B200		
113 - 122	Colour macro 1		000 - 255 : Speed
123 - 133	Colour macro 2		
134 - 143	Colour macro 3		
144 - 153	Colour macro 4		
154 - 163	Colour macro 5		
164 - 174	Colour macro 6		
175 - 184	Colour macro 7		
185 - 194	Colour macro 8		
195 - 204	Colour macro 9		
205 - 215	Colour macro 10		
216 - 225	Colour macro 11		
226 - 235	Colour macro 12		
236 - 245	Colour macro 13	Music-sensitive mode (Dimmer at 100%)	
246 - 255	Auto mode : 4 times each macro		

Note :

- The macros are identical to those described in chapter 4.2.1.
- The music-sensitive mode used via channel 2 is only available for step sequences : macro 1 and macros 10 to 13.
- For macros 2 to 9, channel 2 only affects the speed and does not activate the music-sensitive mode.

3-channels mode: the display indicates 

DMX channels	DMX values	Functions
CHANNEL 1	000-255	Red level
CHANNEL 2	000-255	Green level
CHANNEL 3	000-255	Blue level

4-channels mode: the display indicates 

DMX channels	DMX values	Functions
CHANNEL 1	000-255	Red level
CHANNEL 2	000-255	Green level
CHANNEL 3	000-255	Blue level
CHANNEL 4	000	Black-out
	001-189	Dimmer
	190-250	Strobe at increasing speed
	251-255	Full On

5-channels mode: the display indicates

DMX channels	DMX values	Functions
CHANNEL 1	000-255	Red level
CHANNEL 2	000-255	Green level
CHANNEL 3	000-255	Blue level
CHANNEL 4	000-255	Dimmer from 0 - 100%
CHANNEL 5	000-015	No strobe
	016-250	Strobe at increasing speed

6-channels mode: the display indicates

Channel 1	Channel 2	Channel 3	Channel 4		Channel 5	Channel 6	
If channel 6 between 000 and 010			If channel 6 between 000-010	If chan. 6 between 011 and 255			
000 - 255 : Red dimmer	000 - 255 : Green dimmer	000 - 255 : Blue dimmer	000 - 255 : Main dimmer	000 - 255 : Main dimmer	000 - 015 No strobe	000 - 010	No function
						011 - 020	Red
						021 - 030	Orange
						031 - 040	Yellow
						041 - 050	Green
						052 - 061	Cyan
						062 - 071	Blue
						072 - 081	Pink
						082 - 092	Magenta
						093 - 102	Cool white
						103 - 112	Warm white
						113 - 122	Colour macro 1
						123 - 133	Colour macro 2
134 - 143	Colour macro 3						
144 - 153	Colour macro 4						
154 - 163	Colour macro 5						
164 - 174	Colour macro 6						
175 - 184	Colour macro 7						
185 - 194	Colour macro 8						
195 - 204	Colour macro 9						
205 - 215	Colour macro 10						
216 - 225	Colour macro 11						
226 - 235	Colour macro 12						
236 - 245	Colour macro 13						
246 - 255	Auto mode: 4 times each macro						
000 - 255 : Red dimmer	000 - 255 : Green dimmer	000 - 255 : Blue dimmer	000 - 255 : Main dimmer	000 - 255 : Speed	016 - 255 : Strobe at increasing speed		
				Music-sensitive mode (Dimmer at 100%)			

- Note :**
- The music-sensitive mode used via channel 2 is only available for step sequences : macro 1 and macros 10 to 13.
 - For macros 2 to 9, channel 2 only affects the speed and does not activate the music-sensitive mode.

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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