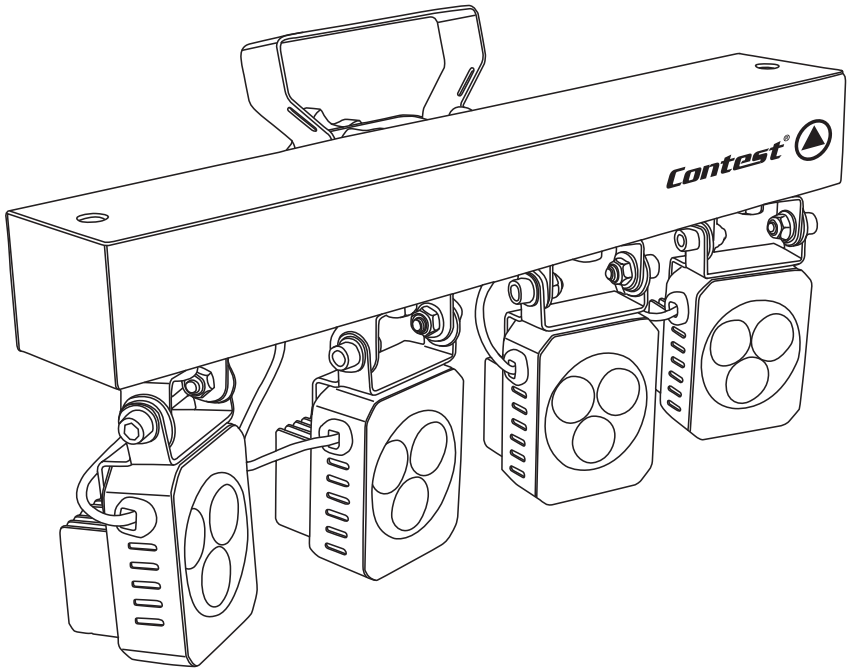


4-PROJECTOR BAR WITH 12X3W TRICOLOR LEDs



TRI4U

USER GUIDE
9955 - August 2012 Version 1.0

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 .



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.

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 liquid penetrate this product as it may result in electric shock or fire. Never spill any object 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 TRI4U.

You now have in your possession a high-quality, powerful and intelligent device.

Your TRI4U is composed of four projectors fixed to a power and control bar.

Its ease of use and installation, its vast colour palette and functions make it the best companion of nomadic installations.

This user guide will help you getting familiar with the many functions and possibilities offered by your TRI4U.

Please keep out within reach during the first uses.

3 - Description and installation

3.1 - Description

Here is a unique device, combining super-dynamic effects, 4 powerful projectors in a compact housing.

Automatic or music-sensitive mode: it offers many control possibilities via its DMX interface and allows you to control (simultaneously or independently) several projectors..

Your TRI4U features .

- 12x3W LEDs spread across 4 projectors
- Beamwidth: 25° per projector.
- Independent adjustment for each projector
- Many modes:
 - DMX (2 to 16 channels)
 - Music-sensitive (master) via internal microphone
 - Automatic (master)
 - Slave
- Access to internal programs and music-sensitive mode from the DMX
- Max. power consumption: 50W
- Alimentation : AC 90/250V - 50/60Hz
- DMX Input/output
- Display with drop-down menu
- Convection-cooled
- Black metal housing
- Exclusive built-in hanging bracket compatible with stands
- Dimensions: 375 x 160 x 60 mm
- Net weight: 2.5 Kg

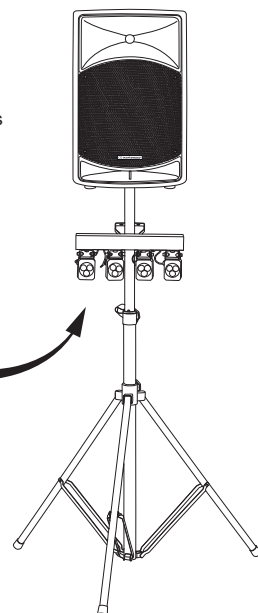
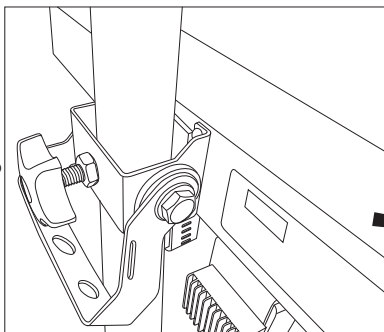
3.2 - Installation

Your TRI4U can be set up in two different ways:

1. It can typically be fixed to structure via its hanging bracket.
2. Mounted over a 35 mm speaker stand via the ring located behind the hanging bracket as described on the figure below.

When using stands, please make sure that:

- The stands is located far from the audience in order to prevent any accidental or intentional injury.
- The ceiling is high enough, and no object is above the TRI4U in order to prevent heat accumulation.
- The stand is resistant enough to bear the weight of your TRI4U. Only use certified and safe stands.
- The stand features a safety system preventing unwanted pipe movements.
- The stand is stable, with a solid base.
- No cable runs amongst the audience.
- The tripod base cannot be reached by the audience and protected by a barrier.
- The tripod must not be placed in front of an emergency exit.

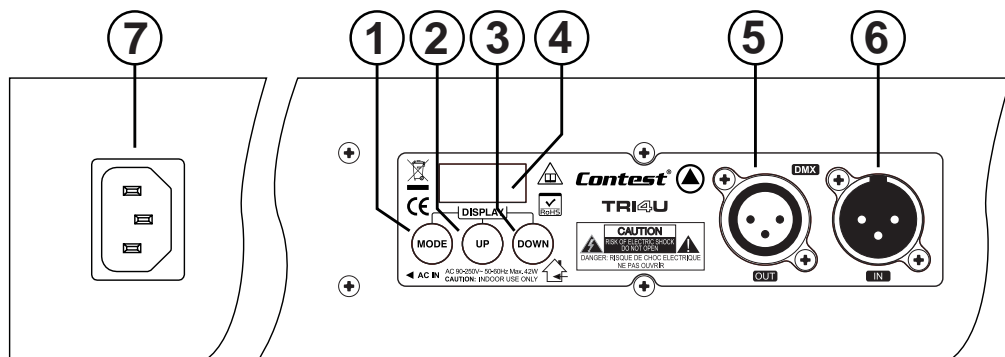


Note: It is your sole responsibility to respect the local safety regulations when position your stands.



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 - The control panel



1 MODE Button

Allows you to access and browse the internal menu.

2 and 3 UP and DOWN Button

Allows you to modify the value of each function.

4 Display

Indicates the current status of your TRI4U.

Note about the display in DMX mode:

- Letter **d** flashes, alternating with the DMX address.
- The decimal dot will be lit if a DMX signal is detected via the DMX input.

5 DMX Output

Can be used to daisy-chain several devices.
Same wiring as the DMX input.

6 DMX Input

3-pin male XLR plug wired as follows:

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

Can be used to carry the DMX signal (either coming from another device or DMX controller) to the projector.

7 Power input socket

Can be used to connect the unit to an electrical outlet.
Please make sure the voltage of the electrical outlet will not damage your TRI4U.

4 - Functions

4.1 - Macros and patterns configuration

4.1.1 - Macros: **NO 1** to **N 15**

Macros include 10 preset colours and 5 sequences of preset colours.

When using macros, all projectors will be used to display the same colour.

Sequences are either in step or cross-fade mode.

4.1.2 - Patterns: **PU 1** to **PU 9**

Patterns are visual effects created by turning on and off projectors to produce chasers, "ping-pong" effects, etc.

Patterns use preset colours and sequences are either in step or cross-fade mode.

4.2.3 - More details about the Auto mode

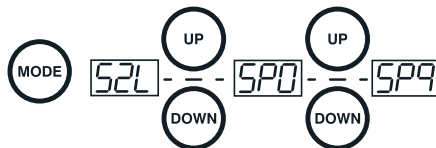
AU1	Sequencing of patterns 2, 3, 4, 5, 6. Each pattern is repeated 10 times. Step transitions.
AU2	Switching on and off each projector in a loop as follows : P1 > P2 > P3 > P4 > P3 > P2 > P1. Includes 8 preset colours. 7 x 8 steps. Step transitions.
AU3	Switching on each projector and replacing the current colour by the next preset colour for each projector: P1 > P2 > P3 > P4 > P3 > P2 > P1 in a loop. Includes 8 preset colours. 7 x 8 steps. Step transitions.
AU4	Switching on / flashing / switching on each projector. Includes 8 preset colours. 12 x 8 steps. Step transitions.
AU5	Colour sequencing by pair of projectors. Fork Effect. 4 x 2 steps. Step transitions.
AU6	Switching on and off each projector one after another. Ping-pong effect. Step transitions.
AU7	Symmetrical colour changes. Colour ping-pong effect. All projectors on. 4x2 steps. Step transitions.
AU8	Similar to AU7 with cross-fade transitions.
AU9	Sequence including several patterns with internal/external symmetry. Cross-fade transitions.

Note : In auto mode, your TRI4U will send information across 12 DMX channels towards connected slave units.

4.2.4 - Macro and pattern speed settings

Once macros or patterns have been activated, you can adjust their speed or activate the music-sensitive mode by pressing the MENU button for 2 seconds.


Then use the UP and DOWN buttons to select the desired speed. The S2L value (Sound-to-Light) refers to the music-sensitive mode. SP0 represents the slowest speed, whereas SP9 is the fastest.



Speeds available in step mode	
S2L	Music-sensitive mode
SP0	1 step every 10 seconds (6 BPM)
SP1	1 step every 5 seconds (12 BPM)
SP2	1 step every 2 seconds (30 BPM)
SP3	1 step per second (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)


Speeds available in cross-fade mode	
SP0	1 step every 20 seconds (3 BPM)
SP1	1 step every 10 seconds (6 BPM)
SP2	1 step every 4 seconds (15 BPM)
SP3	1 step every 2 seconds (30 BPM)
SP4	0,66 step per second (40 BPM)
SP5	0,833 étape par seconde (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)

4.2.5 - The various DMX modes


2-channel mode: the display indicates 

CHANNEL 1		CHANNEL 2
000 - 010	LEDs off	No function
011 - 020	Red: R255 - V000 - B000	000 - 255 : Dimmer
021 - 030	Orange: R255 - V070 - B000	
031 - 040	Yellow: R255 - V155 - B000	
041 - 051	Green: R000 - V255 - B000	
052 - 061	Cyan: R000 - V255 - B255	
062 - 071	Blue: R000 - V000 - B255	
072 - 081	Pink: R255 - V000 - 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	
123 - 133	Colour macro 2	
134 - 143	Colour macro 3	
144 - 153	Colour macro 4	
154 - 163	Colour macro 5	
164 - 174	Pattern 1	
175 - 184	Pattern 2	
185 - 194	Pattern 3	
195 - 204	Pattern 4	
205 - 215	Pattern 5	
216 - 225	Pattern 6	
226 - 235	Pattern 7	Music-sensitive mode (Dimmer at 100%)
236 - 245	Pattern 8	
246 - 255	Auto mode: Macros then Patterns 10 times each	


- Note :**
- Macros and patterns are similar to those described in chapters 4.2.2 and 4.2.3.
 - The music-sensitive mode triggered by channel 2 is only available for step transitions: macro 1 and patterns 1 to 7.
 - Channel 2 only affects speed and does not activate the music-sensitive mode for macros 2 to 5 and patterns 8 to 9.

3-channel mode: the display indicates 


DMX Channels	DMX Values	Functions
CHANNEL 1	000-255	Red levels for all projectors
CHANNEL 2	000-255	Green levels for all projectors
CHANNEL 3	000-255	Blue levels for all projectors



4-channel mode: the display indicates 

DMX Channels	DMX Values	Functions
CHANNEL 1	000-255	Red levels for all projectors
CHANNEL 2	000-255	Green levels for all projectors
CHANNEL 3	000-255	Blue levels for all projectors
CHANNEL 4	000	Black-out
	001-189	Dimmer
	190-250	Strobe at increasing speed
	251-255	Full On

5-channel mode: the display indicates 


DMX Channels	DMX Values	Functions
CHANNEL 1	000-255	Red levels for all projectors
CHANNEL 2	000-255	Green levels for all projectors
CHANNEL 3	000-255	Blue levels for all projectors
CHANNEL 4	000-255	Dimmer from 0 - 100%
CHANNEL 5	000-015	No strobe
	016-250	Strobe at increasing speed

6-channel mode: the display indicates 


CHAN. 1	CHAN. 2	CHAN. 3	CHANNEL 4		CHANNEL 5	CHANNEL 6			
If channel 6 between 000 and 010			If chan. 6 between 000 and 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 : Dimmer	000 - 024 No strobe	000 - 010	No function		
						011 - 020	Red		
						021 - 030	Orange		
						031 - 040	Yellow		
						041 - 051	Green		
						052 - 061	Cyan		
						062 - 071	Blue		
						072 - 081	Pink		
						082 - 092	Magenta		
						093 - 102	Cool white		
						103 - 112	Warm white		
						000 - 255 : Speed	000 - 255 : Strobe at increasing speed	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	Pattern 1								
175 - 184	Pattern 2								
185 - 194	Pattern 3								
195 - 204	Pattern 4								
205 - 215	Pattern 5								
216 - 225	Pattern 6								
226 - 235	Pattern 7								
236 - 245	Pattern 8								
246 - 255	Auto mode: Macros then Patterns 10 times each								
Music-sensitive mode (Dimmer at 100%)									

Note :

- The music-sensitive mode triggered by channel 4 is only available for step sequences: macro 1 and patterns 1 to 7.
- Channel 4 only affects speed and does not trigger the music-sensitive mode for macros 2 to 5 and patterns 8 to 9.

12-channel mode: the display indicates 

DMX Channels	DMX Values	Functions
CHANNEL 1	000-255	Projector 1 Red level
CHANNEL 2	000-255	Projector 1 Green level
CHANNEL 3	000-255	Projector 1 Blue level
CHANNEL 4	000-255	Projector 2 Red level
CHANNEL 5	000-255	Projector 2 Green level
CHANNEL 6	000-255	Projector 2 Blue level
CHANNEL 7	000-255	Projector 3 Red level
CHANNEL 8	000-255	Projector 3 Green level
CHANNEL 9	000-255	Projector 3 Blue level
CHANNEL 10	000-255	Projector 4 Red level
CHANNEL 11	000-255	Projector 4 Green level
CHANNEL 12	000-255	Projector 4 Blue level

Reversed 12-channel mode: the display indicates 


This mode is similar to the previous one, but channels are reversed.

This mode is perfect to create symmetrical effects combining 2 TRI4U: one in regular 12-channel mode, the other one in reversed 12-channel mode.

Channel 1 controls Red level of projector 4, channel 2 controls Green level of projector 4, channel 3 controls Blue level of projector 4, ... etc.

15-channel mode: the display indicates 


DMX Channels	DMX Values	Functions
CHANNEL 1	000-255	Projector 1 Red level
CHANNEL 2	000-255	Projector 1 Green level
CHANNEL 3	000-255	Projector 1 Blue level
CHANNEL 4	000-255	Projector 2 Red level
CHANNEL 5	000-255	Projector 2 Green level
CHANNEL 6	000-255	Projector 2 Blue level
CHANNEL 7	000-255	Projector 3 Red level
CHANNEL 8	000-255	Projector 3 Green level
CHANNEL 9	000-255	Projector 3 Blue level
CHANNEL 10	000-255	Projector 4 Red level
CHANNEL 11	000-255	Projector 4 Green level
CHANNEL 12	000-255	Projector 4 Blue level
CHANNEL 13	000-189	Main dimmer
	190-250	Slow to fast strobe
	251-255	Full On
CHANNEL 14	000-255	Fixed colours, macros and patterns selection The DMX values are identical to channel 1 in 2-channel mode (page 7)
CHANNEL 15	000-200	Macros and patterns speed settings (increasing speed)
	201-255	Music-sensitive mode for macro 1/patterns 1 to 5 (identical to channel 2 in 2-channel mode)

Reversed 15-channel mode: the display indicates 

This mode is similar to the previous one, but channels are reversed.

This mode is perfect to create symmetrical effects combining 2 TRI4U: one in regular 15-channel mode, the other one in reversed 15-channel mode.

Channel **1** controls Red level of projector **4**, channel **2** controls Green level of projector **4**, channel **3** controls Blue level of projector **4**, ... etc.

16-channel mode: the display indicates 

DMX Channels	DMX Values	Functions
CHANNEL 1	000-255	Projector 1 Red level
CHANNEL 2	000-255	Projector 1 Green level
CHANNEL 3	000-255	Projector 1 Blue level
CHANNEL 4	000	Projector 1 black-out
	001-189	Projector 1 dimmer
	190-250	Projector 1 slow to fast strobe
	251-255	Projector 1 Full On
CHANNEL 5	000-255	Projector 2 Red level
CHANNEL 6	000-255	Projector 2 Green level
CHANNEL 7	000-255	Projector 2 Blue level
CHANNEL 8	000	Projector 2 black-out
	001-189	Projector 2 dimmer
	190-250	Projector 2 slow to fast strobe
	251-255	Projector 2 Full On
CHANNEL 9	000-255	Projector 3 Red level
CHANNEL 10	000-255	Projector 3 Green level
CHANNEL 11	000-255	Projector 3 Blue level
CHANNEL 12	000	Projector 3 black-out
	001-189	Projector 3 dimmer
	190-250	Projector 3 slow to fast strobe
	251-255	Projector 3 Full On
CHANNEL 13	000-255	Projector 4 Red level
CHANNEL 14	000-255	Projector 4 Green level
CHANNEL 15	000-255	Projector 4 Blue level
CHANNEL 16	000	Projector 4 black-out
	001-189	Projector 4 dimmer
	190-250	Projector 4 slow to fast strobe
	251-255	Projector 4 Full On

Reversed 16-channel mode : the display indicates 

This mode is similar to the previous one, but channels are reversed.

This mode is perfect to create symmetrical effects combining 2 TRI4U: one in regular 16-channel mode, the other one in reversed 16-channel mode.

Channel **1** controls Red level of projector **4**, channel **2** controls Green level of projector **4**, channel **3** controls Blue level of projector **4**, ... etc.

5 - Additional details

5-1 Master / Slave Mode

The Master / Slave mode allows you to synchronise several devices.
In Master / Slave mode, the first unit will control the others.

5.1.1 - Configuring a master unit

The master unit can be configured in two different ways:

1- Master unit in Color/Macro mode:

Press MENU then select **Macro**. Use the UP and DOWN buttons to select macros 1 to 5 (M11 to M15).
Press MODE for 2 seconds, then use the UP and DOWN buttons to adjust the speed (PS1 to PS9).

2 - Master unit in Auto mode:

Press MENU then select **Auto**. Use the UP and DOWN buttons to select patterns 1 to 9 (AU1 to AU9).
Press MODE for 2 seconds, then use the UP and DOWN buttons to adjust the speed (PS1 to PS9) or activate the music-sensitive mode (SP0).

5.1.2 - Configuring one or several slave units

Press mode then select **Channel**. Use the UP and DOWN buttons to select **SLA** or **SLr**.
- SLA refers to the regular slave mode (replicates the master unit behaviours).
- SLr refers to the reversed slave mode, allowing you to create symmetry effects.

Note : In slave mode, each projector is automatically set on address 1, which cannot be modified.

5-2 The reversed DMX modes (r.XX)

When using reversed DMX modes, the projectors order is reversed. The table below describes these modes.

12 and 15-channel modes				Termes utilisés
Projector 1 RGB (channels 1,2,3)	Projector RGB 2 (channels 4,5,6)	Projector 3 RGB (channels 7,8,9)	Projector 4 RGB (channels 10,11,12)	RGB: Red, Green and Blue D/S: Dimmer and strobe
Reversed 12 and 15-channel modes (channels 13, 14 and 15 of the 15-channel mode retain their function)				
Projector 4 RGB (channels 1,2,3)	Projector 3 RGB (channels 4,5,6)	Projector RGB 2 (channels 7,8,9)	Projector 1 RGB (channels 10,11,12)	
16-channel mode				
Projector 1 RGB, D/S (channels 1,2,3,4)	Projector 2 RGB, D/S (channels 5,6,7,8)	Projector 3 RGB, D/S (channels 9,10,11,12)	Projector 4 RGB, D/S (channels 13,14,15,16)	
Reversed 16-channel mode				
Projector 4 RGB, D/S (channels 1,2,3,4)	Projector 3 RGB, D/S (channels 5,6,7,8)	Projector 2 RGB, D/S (channels 9,10,11,12)	Projector 1 RGB, D/S (channels 13,14,15,16)	

5-3 Turning off the display

The display automatically turns off after 25 seconds of inactivity.

Pressing one of the 3 buttons will reactivate the display without affecting the current settings, however, pressing twice any button will modify the current settings.

5-4 DMX signal losses

In case of signal interruption, your TRI4U will keep the last settings used before the signal loss.

5-5 Maintenance

This device does not require particular maintenance procedures. The internal circuit is protected by a 5 x 20 mm, 250V/2A fuse. If need to replace the fuse, the problem might come from an internal defect requiring a qualified technician.

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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