DELTA 10 F



03.LDF004.T12

03.LDF004.T25

03.LDF004.T45 03.LDF004.T12.WS

03.LDF004.T25.WS

03.LDF004.T45.WS

User's Manual Rel 1.2 GB

D.T.S. Illuminazione srl - ITALY http://www.dts-lighting.it

(€ IP65



The Lighting Company

Made in Italy

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1-SYMBOLS

Graphic symbols used on this manual



THIS SYMBOL INDICATES A HOT SURFACE



THIS SYMBOL INDICATES ELECTRIC SHOCK RISK



THIS SYMBOL INDICATES GENERAL RISK



THIS SYMBOL MEANS "DO NOT PLACE THE UNIT ON INFLAMMABLE SURFACES"



THIS SYMBOL INDICATES THE MINIMUM DISTANCE TO BE KEPT BETWEEN THE DEVICE AND THE LIT OBJECT

2- GENERAL WARNING

Read the instruction contained in this user manual carefully, as they give important information regarding safety during installation , use and maintenance.

The device is not for domestic use and must be installed by a qualified electrician or experienced person.

Always disconnect the device from the mains before replacing the lamp.

The lamp must be replaced if it has been damaged or deformed by prolonged use or overheating. The device must always be equipped with an efficient ground connection.

3- GENERAL WARRANTY CONDITIONS

The unit is guaranteed for 24 months from the date of purchase against manufacturing material defects.

4- TECHNICAL FEATURES

DELTA 10 F RGBW is a new colour changer with LED technology, with a high protection rating (IP65), ideal for use both indoors and outdoors.

DELTA 10 F RGBW is the brightest LED colour changer in its category: 7.000 Lux at 5 m.

In fact its light source is composed of 240 LEDs (60 Red, 60 Green, 60 Blue, 60 White) with 19.500 total lumens.

Five interchangeable lenses sets are available: spot (12°), medium flood (25°), wide flood (45°), elliptical (15° x 45°) and asymmetrical, offering different light beam projection angles.

The LEDs even distribution pattern featuring the same quantity of red, green, blue and white LEDs guarantees high mixing quality for RGBW colours and a uniform projection on surfaces, no matter what colour is used. DELTA 10 F RGBW can generate 16 million colours; colour temperature can be varied over a linear range from 2800°K to 6500°K.

DELTA 10 F RGBW offers an IP65 protection rating, making it suitable for a vast variety of uses, either outdoors or indoors.

DELTA 10 F RGBW has a full-range AC 90-260 V, 50-60 Hz power supply, and therefore ensures reliable operation even in the case of voltage drops. DELTA 10 F RGBW can be used without external consoles, in chains of colour changers including up to 32 units.

All functions of the internal DELTA 10 F RGBW menu can be programmed and memorized in a sequence of events (including different luminosity settings, generation of 16 million different colours, special effects, etc.), which can be played back in a predetermined sequence over an entire week.

The DELTA 10 F RGBW can operate in vertical, horizontal or inverted positions, and can be positioned on the floor or ground, or fitted to trusses; it is complete with a practical accessory.

DELTA 10 F is also available in W+A version (180 white LEDs + 60 amber LEDs).

On demand, the unit is also available in RGBA version.

DELTA 10 F RGBW

Cod. 03.LDF004.T12 Spot lenses

03.LDF004.T25 Medium flood lenses

03.LDF004.T45 Wide Flood lenses

03.LDF004.T12.WS Spot lenses, Wireless DMX ready (external Antenna needed)

03.LDF004.T25.WS Medium flood lenses, Wireless DMX ready (external Antenna needed)

03.LDF004.T45.WS Wide Flood lenses, Wireless DMX ready (external Antenna needed)

• Electronic power supply 90-260VAC 50/60 Hz • Grey glitter finish

LED technology

240 LEDs (60 Red, 60 Green, 60 Blue, 60 White)

LEDs average lifespan: 100.000 hours

Total luminous flux 19.500 Lumens

Luminosity 7.000 Lux at 5 m (spot lenses)

RGBW colour generation (16 million colours)

Colour temperature variable on a linear range (2.800°K÷6.500°K); no infrared / no ultraviolet emissions

Lenses sets

Spot (12°), Medium flood (25°), Wide flood (45°), Elliptical (15° x 45°), Asymmetrical

Lenses sets are interchangeable

User interface

OLED display + 4 buttons; Infrared remote control

Independent operation

Fully programmable via built-in user interface

Master or Slave capability (chains of up to 32 interconnected units)

Control

Remotely controlled by cable or wireless (on request); USITT DMX 512 serial digital protocol (reception / transmission)

DMX channels: 10

Protection

Full IP65 protection level

4- TECHNICAL FEATURES

Power supply / consumption

Full range AC 90-260V, 50-60Hz

Power consumption:

* 90 V - 5,3 A - 480 W * 120 V - 4 A - 480 W

Thermal

Operating ambient temperature: -10° / +40°

Weight

18Kg **Finishes**

Black, white

Certifications and safety

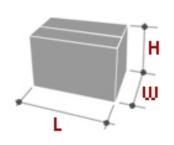
CE certification; LED class: Class 2 LED product

Dimensions

Packaging Dimensions (LxWxH) 630 x 500 x 660 mm

Weight: 20 Kg

Unit Dimensions (LxWxH) 454x205x443mm Weight: 18 Kg







5- ACCESSORIES

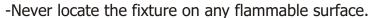
Optional (on request)

Lenses sets

- Lenses set Medium flood (25°) (cod. 03.LK.064)
- Lenses set Wide flood (45°) (cod. 03.LK.065)
- Lenses set Elliptical (15° x 45°) (cod. 03.LK.063)
- Diffusion Frost Glass (cod. 0506V022.F)
- Wireless DMX receiver card (cod. 03.LA.012)
- External 2dBi IP65 Omnidirectional Antenna (cod. 0508A040)
- "C" Clamp G60 black (max. load 50Kg) (cod. 0521A004)
- "C" Clamp G60 chrome (max. load. 50Kg) (cod. 0521A004.20)
- Safety wire (3mm x 60 cm), ring spring catch, max. capacity load 60Kg (cod. 0521A010)

6- IMPORTANT SAFETY INFORMATION

6.1 Fire prevention:





- -Minimum distance from flammable materials: 1 m.
- -Minimum distance from the closest illuminable surface: 1 m. $\Box 1M \parallel$
- -Replace any blown or damaged fuses only with those of identical value. Refer to the wiring diagram if there is any doubt.
- -Connect the projector to mains power via a thermal magnetic circuit breaker.

6.2 Prevention of electric shock:



- -High voltage is present inside the unit. Isolate the projector from the mains supply prior to performing any function which involves touching the inside of the unit.
- -The level of technology inherent in the DELTA 10 F requires the assistance of specialised personnel for all servicing. Please refer to an authorised D.T.S. service centre.
- -A good earth connection is essential for proper functioning of the projector.

Never connect the unit without proper earth connection.

-The fixture should be located in places with a good air ventilation.

6.3 Protection against direct light radiation:

- -Never turn the unit on if any of the lenses or the glass lenses protection is damaged.
- -Never look directly the leds when they are on.

6.4 Safety:



- -The projector should always be installed with bolts, clamps and other tools that are capable of supporting the weight of the unit.
- -Always use a second safety chain to sustain the weight of the unit in case of the failure of the main fixing point.
- -The external surface of the unit, at various points, may exceed 80°C. Never handle the unit until it's on.
- -Never install the fixture in an enclosed area lacking sufficient air flow.
- -The ambient temperature should not exceed 40°C.

6.5 Level of protection against the penetration of solid and liquid matter:



-The projector is classified as an ordinary appliance and its protection level against the penetration of solid and liquid matter is IP 65.

.7- VOLTAGE AND FREQUENCY:

Delta 10 F can operate at 90-260VAC, 50 or 60 Hz.

8- INSTALLATION:

Delta 10 F may be either floor or ceiling mounted.

For floor mounting installations, the unit is supplied with four rubber mounting feet on the base. For ceiling mounted installations, we reccommend the use of appropriate clamps to fix the unit to the mounting surface.

The supporting structure from which the unit is hung should be capable of bearing the weight of the unit, as should any clamps used to hung it. The structure should also be sufficiently rigid so as not to move or shake whilst the Delta 10 F is moving.

The Delta 10 F is fitted with 7 fixing points on the bottom used to attach accessories (clamps, hooks, etc.)

8.1 Safety cable:

We recommend the use of a safety cable or chain connected to the Delta 10 F and to the suspension truss in order to avoid the fixture accidentally falling should the main fixing point fail. Make sure that the iron cable or chain can bear the weight of the entire unit.

You may attach the safety chain to the holes located on the base of the fixture.

8.2- Protection against liquids

The projector contains electric and electronic components which should under no circumstances come into contact with oil, water or any other liquid. The proper unit functioning would be compromised should this occur.

8.3- Movement

The projector has a maximum movement of 90° for Tilt. DO NOT place any obstructions in the path of the projector's movement.







WARNING
Do not place any object in the path of the projector's movement

8.4- Risk of fire

Each fixture produces heat and must be installed in a well-ventilated place. The minimum recommended distance from flammable material is 1 MT.

Minimum distance from the object being illuminated is 1 MT. $\c 0.1$ M $\c 0.1$

8.5- Forced ventilation

You will note, on inspection, that the unit features various air inlets and cooling fans located on the head of the fixture. These should, under no circumstances, be blocked or obstructed whilst the projector is in operation.

Doing so could cause the fixture to seriously overheat thereby compromising its proper operation.

8.6- Ambient temperature

The projector should never be installed in places that lack a constant air flow. The ambient temperature should NOT exceed 40°C.

9- MAINS CONNECTION:

Delta 10 F can operate at 90-260V, 50 or 60Hz.

Panel connector for

external WIRELESS DMX Antenna

Prior to connecting the unit to your mains supply, ensure that the model in your possession correctly matches the mains supply available.

For connection purposes, ensure that your plug can handle at least 400W power consuption. Strict adherence to regulatory norms is strongly Recommended.



Metal support for

external WIRELESS DMX Antenna

9.1 Protection:

The use of a thermal magnetic circuit breaker is recommended for each Delta 10 F. A good earth connection is essential for the correct operation of the projector



10- DMX SIGNAL CONNECTION

The unit operates using the digital DMX 512 (1990) signal. Connection between the mixer and the projector or between projectors must be carried out using a two pair screened ø 0.5 mm cable and a XLR 5 or 3 pins connector. Ensure that the conductors do not touch each other. Do not connect the cable ground to the XLR chassy

The plug housing must be isolated. Connect the mixer signal to the DMX IN projector plug and connect it to the next projector by connecting the DMX OUT plug on the first projector to the DMX IN plug of the second one.

This way, all the projectors are cascade connected.

NB. If the display showing the DMX address flashes, then one of the following errors has occurred:

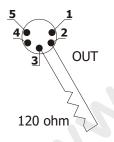
- DMX signal not present
- DMX address not valid



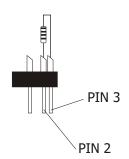
For Installations where long distance DMX cable connections are needed, we suggest to use a DMX terminator.

The DMX terminator is a male XLR 3-5 pins connector with a 120 ohm resistor Between pin 2 and 3.

The DMX terminator must be plugged into the last unit (DMX out panel connector) of the DMX line.



PLACE A 120 OHM RESISTOR BETWEEN PIN 2 AND 3 OF A MALE XRL CONNECTOR AND PLUG IT INTO THE DMX OUT PANEL CONNECTOR OF THE LAST UNIT CONNECTED TO THE DMX LINE



Please note that the XLR connectors installed on the DELTA 10 F have an IP20 protection rate.

Thus, for any application where an IP65 rate is needed, the XLR connectors must be protected within an IP65-rated container.

10.1 DMX Addresses:

DELTA 10 F can be used in 3 different DMX modes: 10 DMX control channels, 6 DMX control channels or CUSTOM mode channels.

Here below is described the DMX channels addressing for the controller when Delta 10 f is set to 10 DMX control channels:

Projector 1 A001

Projector 2 A011 If you want to select the next projector, just add "10"

Projector 3 A021 A.... projector 6 A051

10.2 Selecting the DMX address:

- 1) Press the UP-DOWN key until you reach the required DMX address. The numbers on the display will start to flash (but the new DMX address hasn't yet been set).
- 2) Press ENTER to confirm your selection. The numbers on the display will stop flashing and the projector is now controlled by the new DMX address.

TIPS: if you keep pushed the UP or DOWN keys, the channels are calculated more quickly and you get a faster selection.

11 FIRMWARE UPDATING



Warning:

This procedure require a base knolewge of computer applications and Windows Hyperterminal program. **Please refer to an authorised D.T.S. service centre.**

To update the software version of the DELTA 10 F you need:

D.T.S. RED BOX interface (D.T.S. Code: 03.LA.008).

USB-DMX Driver for the D.T.S. RED BOX interface .

D.T.S. Firmware upgrade utility program.

(The driver and the installation procedure are available in our web site www.dts-lighting.it)

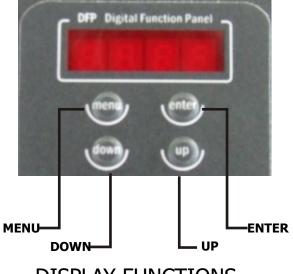
Updating the software version.

Please follow the procedure below to perform the update:

- 1. Install the D.T.S. RED BOX USB-DMX driver on the PC you will use to update the unit software.
- 2. Connect the D.T.S. RED BOX interface to the PC by using a USB cable.
- 3. Connect the D.T.S. RED BOX interface to the fixture by using a DMX cable.
- 4. Download the new software version into the unit by using D.T.S. Firmware upgrade utility program.

It will be possible to download the software from the reserved area of D.T.S. web site: www.dts-lighting.it.

12- DISPLAY FUNCTIONS

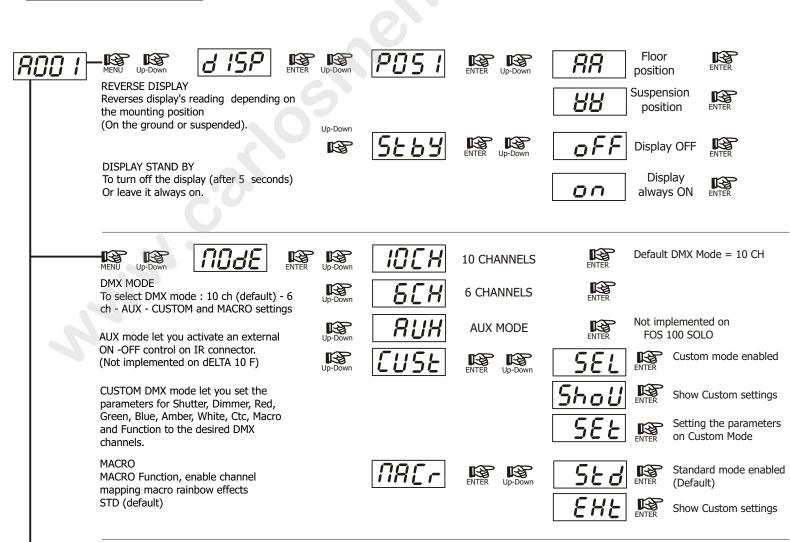


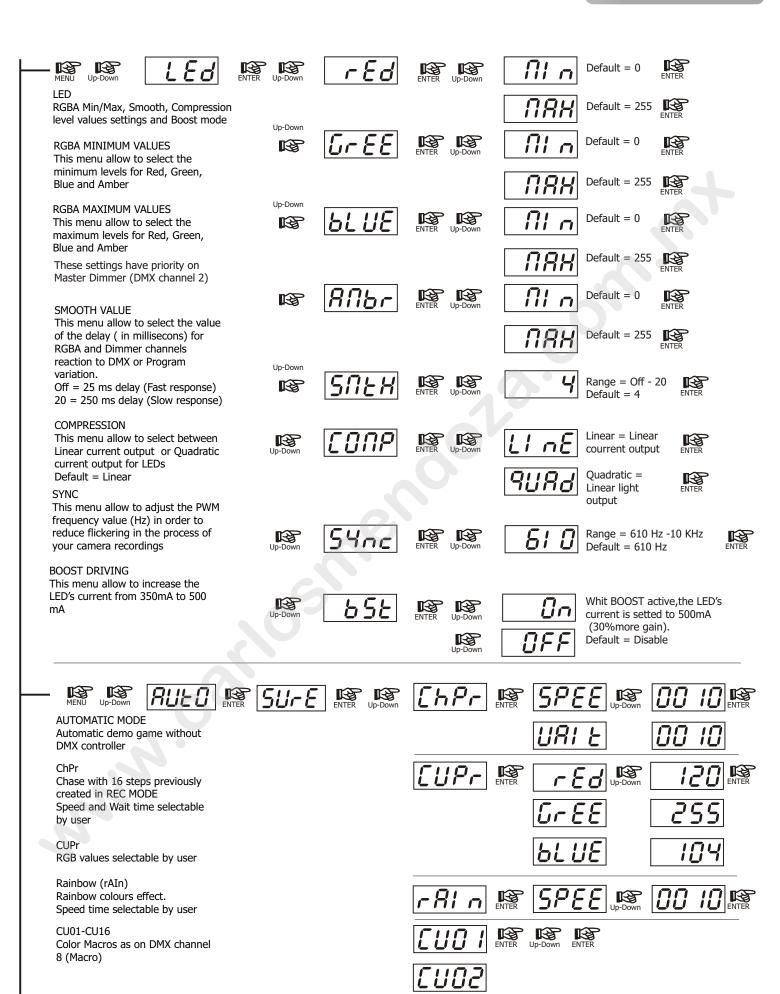


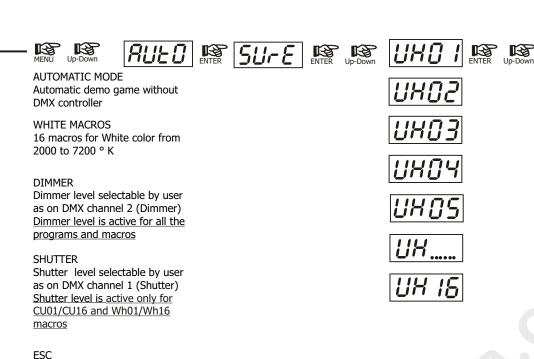
DISPLAY FUNCTIONS

The DELTA 10 F display panel shows all the available functions . Using these functions, it is possible to change some of the parameters and add some functions. Changing the D.T.S. setting can vary the functions of the unit so that it does not respond to the DMX 512 signal used to control it. Carefully follow the instructions below before carrying out any variations or selections. NOTE: the symbol shows which key has to be pushed to obtain the desired function.

Software version 1.12

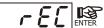


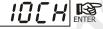














REC MODE

In DMX Recorder Mode, it is possible to create and store the scenes of the ChPr by using an external DMX controller.
The unit must be setted to 10 channels MODE

Esc from Automatic Mode Menu



NO 16

DMX Recorder Mode

For the programming of ChPr by using a DMX controller, besides the 10 channels necessary to control the unit a further 3 DMX channels are needed.

So that in RECORDER mode (via DMX) the unit will need 13 channels to be correctly programmed.

The three new DMX channels are:

DMX channel 11 = SCENES channel

From 0-10 = no function (r001)

From 11-255 are displayed the programmable scenes (max 16 scenes from M001 to M0016)

DMX channel 12 = EDIT channel:

-From 0-19 = no function

-From 20-234 the unit runs the configuration given by the received input DMX values.

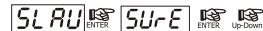
With the channel SCENES it is possible to pass from one step to the next while with REC it is possible to record the selected scene.

-From 235-255 the unit runs the configuration given by the received input DMX values closing the sequence as last scene. With the channel REC it is possible to record the selected scene as last scene.

DMX channel 13 = RECORDING channel

Records the set scene with a variation between 0 to 255 (the display flashes indicating that the scene has been recorded). It is advised that you keep the REC channel set to 0 and to run through the 255 only once you have decided to save the scene. If ChPr is not closed, by indicating the last scene (Edit channel between 235-255), in playback mode all 16 scenes will be played through even if not programmed











SLAVE MODE Slave mode for ChPr program. All slave units will be synchronised with master unit, running their own Chpr program.











INFRARED MODE Infrared remote control. By activating Ir MODE, it will be possible to navigate trought the unit functions by using the D.T.S. infrared remote control.

D.T.S. Code: 0514L008 (Not implemented on DELTA 10 F) NOTE:

External infrared remote sensor needed.

D.T.S. Code:03.LA.016



















WIRELESS DMX SYSTEM **ENABLED**

WIRELESS DMX SYSTEM DISABLED

WIRELESS DMX

Wieless DMX enabled / disabled. By activating WDMX MODE, it will be possible to control Delta 10 F via D.T.S. ANTENNA Wireless DMX Transmitter (cod. 03.E1271).

WIRELESS DMX system on Delta 10 F is available on request.





UNLINK = LOG OUT

NOTE:

Wireless DMX receiver card needed (cod. 03.LA.012). External IP65 2dbi omnidirectional Antenna needed (cod. 0508A040)

Logging on Delta 10 F (WIRELESS DMX must be enabled on Delta 10 F unit)









To log on the Delta 10 F in the WIRELESS system simply press and quickly release the function button on the transmitter. The transmitter will start flashing rapidly red/green scanning for new free receivers / Delta 10 F units. When a Delta 10 F logs on to the transmitter the LINK green light on transmitter starts to flash rapidly.

After approximately 10 seconds the transmitter will jump back to normal mode and continue transmitting data. The Delta 10 F now try to synchronize to the transmitter.

When synchronized to the transmitter, 2 different modes are possible:

- 1. Antenna transmitter has detected and transmits a DMX signal, in this mode a solid green light is seen on the transmitter and solid display is seen on Delta 10 F.
- 2. No DMX signal connected, the Antenna transmitter will flash red/green; display blinking on Delta 10 F.

To log Delta 10 F off from a transmitter simply select UNLINK function | Line H and press ENTER.

under WIRELESS DMX MENU

When Delta 10 F is logged off the display is blinking, meaning its available for log in on a new transmitter.

Logging out a Delta 10 F

Select UNLINK function

under WIRELESS DMX MENU



and press ENTER.

When Delta 10 F is logged off the display is blinking, meaning its available for log in on a new transmitter.

Logging out all Delta 10 F linked to a transmitter

Press and hold the function button of the transmitter for about 3 seconds. When the display is blinking on Delta 10 F, it mean that the units are logged out.

Transmitter, Status LED

Flashing red/green, no dmx connected.

Solid green, dmx signal detected and transmitted.

Fast flashing red/green, log in mode (every free Delta 10 F unit, not logged in to any other transmitter, will be logged on)

Delta 10 F, Status

Display blinking, not logged on to a transmitter (free).

Solid display, logged on to a transmitter and receiving dmx data.















OFF





Emergency operating mode. By setting Emergency mode, it will be possible to select one of the 16 preprogrammed WHITE cues that will then ran if DMX signal is missing or not available. Usefull for Emergency EXIT ilumination on public areas.



ai nn





Default = OFF

Default = White 1

Default = 255













DEFAULT

To restore default settings











TEMPERATURE Unit temperature













LIFE TIME

This menu show the total UNIT life time and the RGBA life time



















TEST MODE

RGBA colours test with rainbow











SOFTWARE Software version

13-AUTOMATIC OPERATION (AUTO)

DELTA 10 F can work in automatic mode without a DMX controller. First of all connect the projectors with a DMX cable (picture below). A maximum quantity of 32 slave units can be connected to the same Master unit.



To activate Auto mode on the first unit, use the menu to run through the different modes until AUTO appears on the display, and press enter.

Now it is possible to choose between the different pre-programmed games (CUPr-RAIn-CU01/CU16-Wh01/Wh16) or ChPr which is user programmable through REC mode. To confirm game activation press ENTER on the selected GAME.

13.1 CUPr-RAIn-CU01/CU16-Wh01/Wh16

The first unit that will work as a Master should be placed in Automatic mode (AUTO), the other units have to be placed in 10 channels DMX mode (MODE 10CH) and the DMX address should be set at A001. For RaIn (rainbow) game it is possible to select the speed for the colour changling (SPEE). DIMMER function (in AUTOMATIC MODE) is active for all the programs.

SHUTTER function (in AUTOMATIC MODE) is active only for CU01/CU16 and Wh01/Wh16 macros.

13.2 ChPr MASTER/SLAVE

The first unit that will function as a Master must be set to Automatic mode (AUTO), the other units must be set to Slave mode (SLAV), selectable through the menu. In this way all the Slave units will be synchronised with the master and running their own ChPr game.

On the master unit it is possible to vary the Speed time (SPEE) for the colour changing and the Wait time (UAIt) between the steps.

Speed time and Wait time on the Master, have priority on the slave units.

NB: It is possible to run GA.Pr on the other units even though these do not have GA.Pr programmed. You can do this by setting the units to 10 channels DMX mode (MODE 10CH) and selecting DMX address A001.

13.3 Rec mode

It is possible to program your own game on DELTA 10 F that will then run it in AUTO mode (ChPr). Each unit can have its own programmed game.

In REC mode the unit must be set to 10 channels mode.

To program the ChPr by using a DMX controller, you need 3 more channels in addition to the 10 channels necessary to control the unit.

So that in RECORDER mode (via DMX) the unit will need 13 DMX channels to be correctly programmed. The three new DMX channels are:

DMX channel 11 = SCENES channel

From 0-10 = no function (r001)

From 11-255 are displayed the programmable scenes (max 16 scenes from M001 to M0016)

DMX channel 12 = EDIT channel:

- -From 0-19 = no function
- -From 20-234 the unit runs the configuration given by the received input DMX values.

With the channel SCENES it is possible to pass from one step to the next while with REC it is possible to record the selected scene.

-From 235-255 the unit runs the configuration given by the received input DMX values closing the sequence as last scene.

With the channel REC it is possible to record the selected scene as last scene.

DMX channel 13 = RECORDING channel

Records the set scene with a variation between 0 to 255 (the display flashes indicating that the scene has been recorded). It is advised that you keep the REC channel set to 0 and to run through the 255 only once you have decided to save the scene. If ChPr is not closed, by indicating the last scene (Edit channel between 235-255), in playback mode all 16 scenes will be played through even if not programmed

14- PERIODIC CLEANING

Front lenses Glass:

The dust can reduce the luminous output substantially. Regularly clean the front lenses glass using a soft cotton cloth, dampened with a specialist glasses cleaning solution.

15- PERIODIC CONTROLS

Mechanical parts:

Periodically check all mechanical parts and the gaskets, replacing them if necessary.

Electrical components:

Check all electrical components for correct earthing and proper attachment of all connectors, refastening if necessary.

Fuse replacement:

Locate the fuse, which protect the electronics, in the base of the DELTA 10 F.
Using a multimeter, test the condition of the fuse, replacing it with one of equivalent type if necessary.

Attention: Disconnect mains power prior to removing the projector housing.



16- REPLACING THE LENSES

Spot (12°) as standard not to be removed, Medium flood (25°), Wide flood (45°), Elliptical (15° x 45°)

- Lenses set Medium flood (25°) (cod. 03.LK.064)
- Lenses set Wide flood (45°) (cod. 03.LK.065)
- Lenses set Elliptical (15° x 45°) (cod. 03.LK.063)

To replace the lenses set Medium flood (25°), Wide flood (45°), Elliptical (15° \times 45°) proceed as follow:

Remove these 6 screws on both sides of the rear head assembly



Remove the top head cover

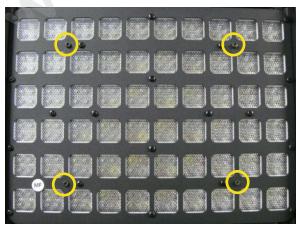
Loose these 4 screws and remove only the frontal metal grid



Frotal LEDs panel with 12° lenses without frontal metal grid



Apply the new lenses set on top of the frotal LEDs panel with 12° lenses and tighten again the 4 screws previously removed



ATTENTION:
Never touch LEDs and Lenses
with hands

17-DMX PROTOCOL

10 CHANNELS MODE (Default)

- 1 SHUTTER
- 2 DIMMER
- 3 RED
- 4 GREEN
- 5 BLUE
- 6 AMBER
- 7 WHITE (Pre-programmed whites at different colour temperatures)
- 8 CTC
- 9 COLOURS MACRO
- 10 FUNCTIONS

DMX CHANNEL	1	Parameter: SHUTTER	
-------------	---	--------------------	--

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-9	5				Black-out
10-19	14				Open
20-29	24			•	Black-out
30-119		Stro	be at variab	le speed fr	om slow to fast (3400ms-20ms)
120-149		Pulse	open at vari	able speed	from slow to fast (43s-100ms)
150-179		Pulse	close at vari	able speed	from slow to fast (43s-100ms)
180-204	192		Ra	ndom Stro	be (Master and RGBA active)
205-229	218				Random Strobe (Full)
230-255	240			,	Open

DMX CHANNEL 2 Parameter: **DIMMER**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional dimmer

DMX CHANNEL	3	Parameter: RED
-------------	---	-----------------------

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

DMX CHANNEL	4	Parameter: GREE	N		
		Move		<u> </u>	

DMX CHANNEL 5 Parameter: **BLUE**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

DMX CHANNEL 6 Parameter: **AMBER**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

DMX CHANNEL 7 Parameter: WHITE (Pre-programmed White at diff. color temperature)

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-55	23			•	No Function
56-105	80			F	ull (Red-Green-Blue at Full)
106-155	130				White DTS

IF CHANNEL 10 (FUNCTIONS) = CUSTOM WHITE RECALL (Dmx range value 0 - 79)

156-205	180	Custom White Recall
206-255	225	White CTC (Channel 8 CTC enabled 43 color temp. Correction Macros: 2000°K-7200°K)

IF CHANNEL 10 (FUNCTIONS) = CUSTOM WHITE CREATE (Dmx range value 80 - 160)

156-205	180	Custom White Create (RGB levels selectable by DMX)
206-255	225	White CTC (Channel 8 CTC enabled 43 color temp. Correction Macros: 2000°K-7200°K)

DMX CHANNEL	8	Parameter: CTC (Color temperature correction)
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DMX range	Mid point	Move			
Value	DMX value	range	Mode	Option	Function

IF CHANNEL 7 (White) = WHITE CTC (Dmx range value 206 - 255)

IF CHANNEL 7 (White) = NO FUNCTION (Dmx range value 0 - 43)

|--|

DMX CHANNEL 9 Parameter: COLOUR MACROS

IF: PLEASE CHECK PAGE 12

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-14					No Function
15-29					Macro 1
30-44					Macro 2
45-59					Macro 3
60-74			6		Macro 4
75-89					Macro 5
90-104					Macro 6
105-119					Macro 7
120-134					Macro 8
135-149					Macro 9
150-164					Macro 10
165-179					Macro 11
180-194	/ •				Macro 12
195-209					Macro 13
210-225					Macro 14
226-239					Macro 15
240-255					Macro 16

DMX CHANNEL 9 Parameter: COLOUR MACROS

IF: PLEASE CHECK PAGE 12

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-14					No Function
15-22					Macro 1
23-30					Macro 2
31-38					Macro 3
39-46					Macro 4
47-54					Macro 5
55-62					Macro 6
63-70					Macro 7
71-78					Macro 8
79-86					Macro 9
87-94					Macro 10
95-102					Macro 11
103-110					Macro 12
111-118					Macro 13
119-126					Macro 14
127-134					Macro 15
135-142					Macro 16
143-150					Rainbow Speed 1 (1 Sec.)
151-158					Rainbow Speed 2 (5 Sec.)
159-166					Rainbow Speed 3 (10 Sec.)
167-174					Rainbow Speed 4 (20 Sec.)
175-182					Rainbow Speed 5 (30 Sec.)
183-190					Rainbow Speed 6 (60 Sec.)
191-198					Rainbow Speed 7 (120 Sec.)
199-206					Rainbow Speed 8 (180 Sec.)
207-214					Random Speed 1 (0.5 sec.)
215-222					Random Speed 2 (1 Sec.)
223-230					Random Speed 3 (2 Sec.)
231-238					Random Speed 4 (5 Sec.)
239-246					Random Speed 5 (10 Sec.)
247-255					Random Speed 6 (30 Sec.)

	DMX CHANNEL	10	Parameter: FUNCTIONS (Recall, Create and Store the Custom white)
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-79		Custom '	White Recall	(Enable C	CH 6 for Custom white Recall)
80-160		Custom Wh	ite Create (I	Enable CH	6 for Custom white Creation)
161-255		Custom White Store (Store the Custom White created)			

6 CHANNELS MODE

- 1 SHUTTER
- 2 DIMMER
- 3 RED
- 4 GREEN
- 5 BLUE
- 6 AMBER

DMX CHANNEL	1	Parameter: SHUTTER
DIVIZE CITATIVEE	1	Parameter: SHUTTER

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-9	5				Black-out
10-19	14				Open
20-29	24			•	Black-out
30-119		Stro	be at variab	le speed fr	om slow to fast (3400ms-20ms)
120-149		Pulse	open at vari	able speed	from slow to fast (43s-100ms)
150-179		Pulse	close at vari	able speed	from slow to fast (43s-100ms)
180-204	192		Ra	ndom Stro	be (Master and RGBA active)
205-229	218				Random Strobe (Full)
230-255	240				Open

DMX CHANNEL	2	Parameter: DIMMER

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional dimmer

DMX CHANNEL

Value 0-255	DMX value	range (degrees)	Mode	Option	Proportional colour
DMX range	Mid point	Move range	Mode	Option	Function

DMX CHANNEL	4	Parameter: GREEN

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

DMX CHANNEL 5 Parameter: **BLUE**

0-255	Diviza varac	(degrees)			Proportional colour
DMX range Value	Mid point DMX value	Move range	Mode	Option	Function

DMX CHANNEL 6 Parameter: AMBER

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

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