

# DRIVENET 1664



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## **TECHNICAL SPECIFICATIONS**

### **DTS Product codes:**

03.LA.198 DRIVENET 1664 Screw terminal outputs

**Input voltage/frequency range:** 180-240Vac 50-60Hz (Voltage not compatible in: USA, Canada, Mexico, Venezuela, Colombia, Ecuador, Central America and Carribean area, Japan, Taiwan, Libia)

**Output channels:** 64 (4 channels x 16 groups)

**Output current:** 700mA max (per channel)

**Output voltage:** 48Vdc

**Max power:** 2200W

**Max projectors distance:** 50 m

**Output connections:** Screw terminal connectors

**Mains connections:** PowerCON male panel connector

**DMX connections:** XLR 5-pole and 3-pole panel connectors

**Display:** Touch-screen color display

**Control:** DMX 512 / RDM / Art-Net (optional)

**DMX channels:** 64 (default), 128 ch, 10 ch, 14 ch, 160 ch, 224 ch, 96 ch, 1 ch

**IP protection degree:** IP20

**Operating temperature:** -10° / 40°

**Rack units:** 3-rack units

**Weight:** 11.4 Kg

### **International certifications**

CE certification

### **Accessories included**

1 x PowerCON female cable connector (code 0520P014)

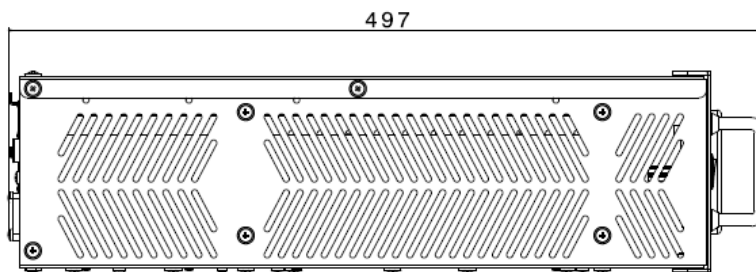
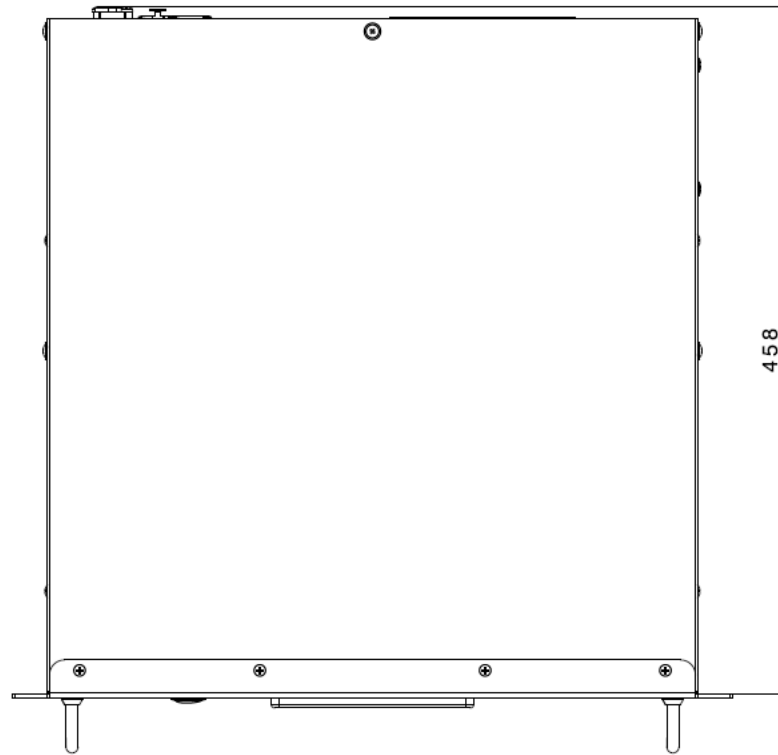
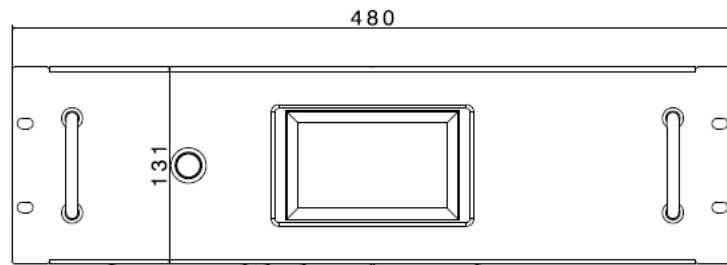
1 x XLR 5 pins male cable connector (code 0508B148)

1 x XLR 5 pins female cable connector (code 0508B147)

### **Accessories on request**

Art-Net interface PCB (code 0514T027)

DTS Dongle Firmware Uploader (code 03.LA.206)

**DIMENSIONS**

## **IMPORTANT SAFETY INFORMATION**

### **Fire prevention:**

It is permissible to place the unit on normally flammable surfaces.

Suitable for mounting on normally flammable materials surfaces greater than 200°C with some combustion time lag.

Replace any blown or damaged fuse only with one of identical value (15AT).

### **Prevention from electric shock:**

High voltage is present inside the unit.

Unplug the unit prior to performing any operation which involves touching the inside of the unit.

This equipment must be grounded, do not connect to non-grounded supplies.

The use of a thermal magnetic circuit breaker is recommended for each DRIVENET 1664.

Use only AC supplies 180-240V 50-60Hz (**Voltage not compatible in: USA, Canada, Mexico, Venezuela, Colombia, Ecuador, Central America and Carribean area, Japan, Taiwan, Libia.**)

The unit should never be located in position exposed to rain or in areas of extreme humidity.

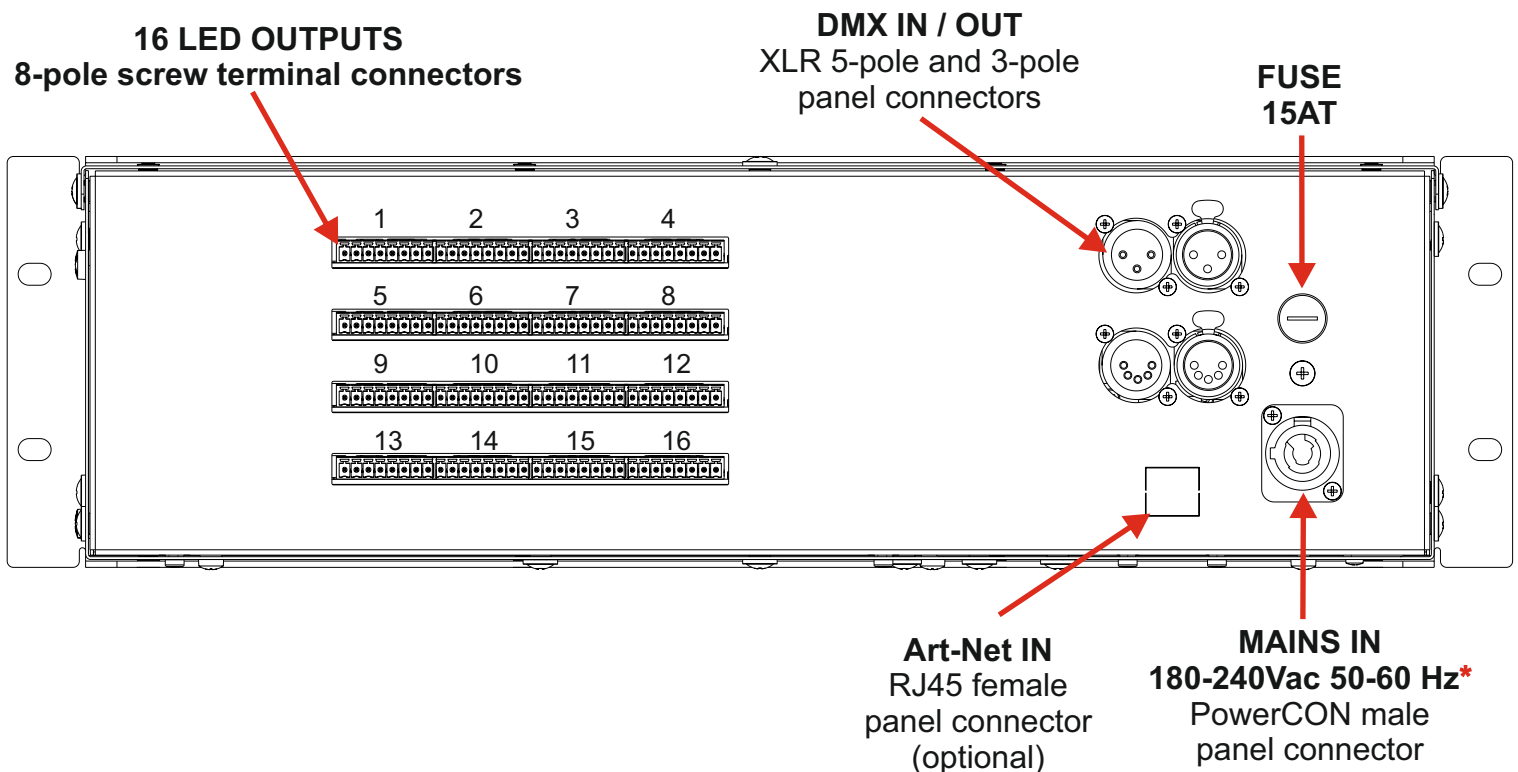
A good air ventilation is essential for proper equipment work.

### **Safety:**

Never install the unit in an enclosed area lacking sufficient air flow.

The ambient temperature should not exceed 40°C and should not be lower than -10°C.

## **CONNECTIONS PANEL**



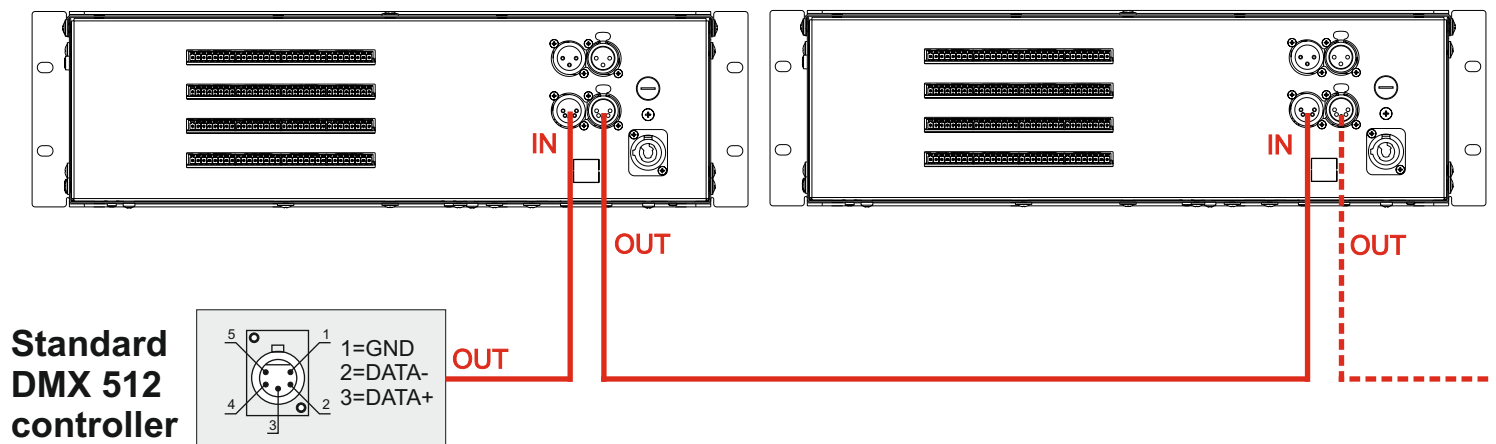
**\* Voltage not compatible in: USA, Canada, Mexico, Venezuela, Colombia, Ecuador, Central America and Carribean area, Japan, Taiwan, Libia.**

## DMX SIGNAL CONNECTION:

The unit operates using a digital DMX 512 signal. Connection between the controller and the unit or between units must be carried out using a two pair screened  $\varnothing$  0.5 mm cable and a CANNON XLR 5 pins connector.

Ensure that the conductors do not touch each other. Do not connect the cable ground to the XLR chassis. The plug housing must be isolated. Connect the mixer signal to the DMX IN of the Z8 plug and connect it to the next unit by connecting the DMX OUT plug on the first Z8 to the DMX IN plug of the second one.

This way, all the projectors are cascade connected.

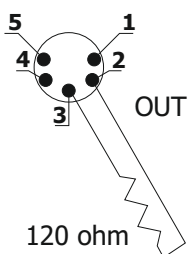


P.S: If the display showing the DMX address flashes, then one of the following errors has occurred:

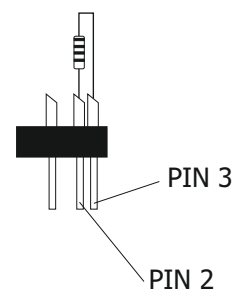
- DMX signal not present
- DMX reception problem

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



## DMX ADDRESS

DRIVENET 1664 can be used in 9 DMX modes: 64 ch (default), 128 ch, 10 ch, 14 ch, 160 ch, 224 ch, 96 ch or 1 ch mode.

If you want to use the DRIVENET 1664 in 64 channels mode, select the "**Full Type 8 bit 64ch**" mode from the DMX MODE menu under DMX SETUP and set the following addresses on the mixer:

Projector 1	A001	
Projector 2	A065	If you want to select the next projector, just add "64"
Projector 3	A129	
.....	A....	
projector 6	A321	

If you want to use the DRIVENET 1664 in 10 channels mode, select the "**Z1 Type 8 bit 10ch**" mode from the DMX MODE menu under DMX SETUP and set the following addresses on the mixer:

Projector 1	A001	
Projector 2	A011	If you want to select the next projector, just add "10"
Projector 3	A021	
.....	A....	
projector 6	A051	

## Selecting the DMX address

- 1) Press the UP-DOWN key until you reach the required DMX address. The numbers on the display will start flashing (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.

## **RDM FUNCTIONS**

DRIVENET 1664 do accept the following RDM commands:

<i>Plasa/ESTA</i>	<i>Description</i>
<b>DEVICE_INFO</b>	To read the following parameters: - RDM Protocol Version - Device Model ID - product category - Sw. Version ID - DMX channels - DMX Mode - DMX address - Sub-devices numbers - Thermal Sensor numbers
<b>IDENTIFY_DEVICE</b>	All Leds on in order to Identify the unit
<b>DMX_START_ADDRESS</b>	Read / Set DMX
<b>SOFTWARE_VERSION_LABEL</b>	Software version
<b>SUPPORTED_PARAMETERS</b>	Description for all the supported parameters
<b>PARAMETER_DESCRIPTION</b>	Manufacturer specific PIDs
<b>DMX_PERSONALITY</b>	Set DMX Mode
<b>DMX_PERSONALITY_DESCRIPTION</b>	DMX Mode Description
<b>DEVICE_MODEL_DESCRIPTION</b>	Device Model Description
<b>MANUFACTURER_LABEL</b>	Manufacturer

NOTE: Between Identify ON and Identify OFF packets, the DMX is Ignored.  
When "INDEPENDENT UNIT ADDRESS" is enabled on unit display, the RDM controller do have access to DMX of the first output group.

## **FIRMWARE UPDATING**

To update the firmware release of the DRIVENET 1664 you need:

- DTS Dongle Firmware Uploader (code 03.LA.206).
- "DTS Firmware Upgrade Utility v.2.02" program installed on PC.
- Latest firmware release available for DRIVENET 1664 unit.

### **Updating the firmware release.**

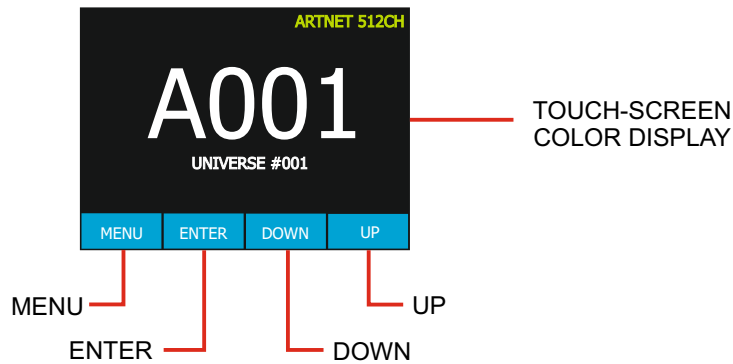
Please follow the procedure below to perform the update:

1. Connect the DTS Dongle Firmware Uploader to a spare USB port on the PC.
2. Connect the unit DMX input to the DTS Dongle Firmware Uploader DMX output with a standard DMX cable and turn ON the unit.
3. Send the new firmware release into the unit by using "DTS Firmware Upgrade Utility v.2.02" program. At the end of the procedure, the unit will reset.

For more information please refer to an authorised DTS service centre.



## DISPLAY FUNCTIONS




## DISPLAY FUNCTIONS

The DRIVENET 1664 24Vdc 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 DTS 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.

**FIRMWARE RELEASE:** 1.19

**RDM Device Model ID:** 0x0D21/2E

**DMX Personality ID (default):** 0x01 "FULL TYPE 8 BIT 64 ch"



Display

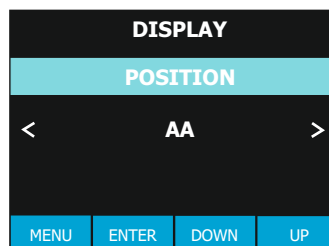


### DISPLAY POSITION

Reverses display's reading depending on the mounting position (on the ground or suspended).

### DISPLAY STANDBY

To turn off the display (after 30 seconds) or Leave it always on.



### DISPLAY POSITION

ON THE GROUND (Default)  
SUSPENDED



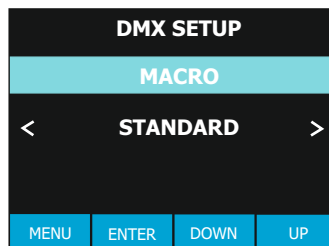
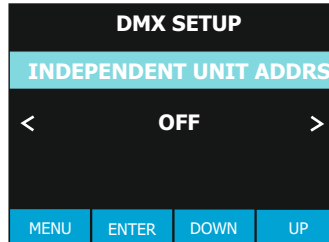
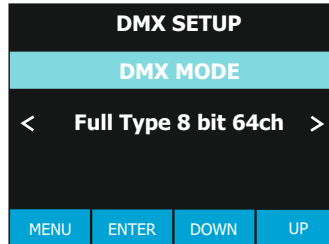
### DISPLAY STANDBY

OFF = Display standby disabled (default)  
ON = Display goes off after 30 seconds





## DMX Setup



## DMX MODE

To select DMX mode:

Full Type 8 bit 64 ch

Full Type 16 bit 128 ch

Z1 Type 8 bit 10 ch

Z1 Type 16 bit 14 ch (for Chase and Cue recording).

Z1 Full 8 bit 10x16 = 160 ch

Z1 Full 16 bit 14x16 = 224 ch

Z1 Short Full 8 bit 6x16 = 96 ch

Z1 Short Full 16 bit 10x16 = 160 ch

1 ch Full Mode = 1 ch

## INDEPENDENT UNIT ADDRESS

Allows independent DMX patch each group for the following DMX modes:

Full Type 8 bit 64 ch

Full Type 16 bit 128 ch

Z1 Full 8 bit 10x16 = 160 ch

Z1 Short Full 8 bit 6x16 = 96 ch

Z1 Short Full 16 bit 10x16 = 160 ch

Default = OFF

## MACRO

Standard = default

Extended = enable rainbow effects on

MACRO channel

## DMX MODE MAP

**Full Type 8 bit 64ch** = 64 DMX ch (default)  
= RGBW 4 ch each output: 1-Red, 2-Green, 3-Blue, 4-White.

**Full Type 16 bit 128ch** = 128 DMX ch mode  
= RGBW 2 ch each colour; 8 ch each output:  
1-Red 8 bit, 2-Red 16 bit, 3-Green 8 bit,  
4-Green 16 bit, 5-Blue 8 bit, 6-Blue 16 bit,  
7-White 8 bit, 8-White 16 bit

**Z1 Type 8 bit 10ch** = 10 DMX ch mode with all the outputs automatically set on DMX starting channel 1:

1=Shutter, 2=Dimmer, 3=Red, 4=Green,  
5=Blue, 6=White, 7=White pre-programmed,  
8=CTC, 9=Macro, 10=Function

**Z1 Type 16 bit 14ch** = 14 DMX ch mode with Dimmer and RGBW channels with 16 bit control and all outputs automatically set on DMX starting address 1:

1=Shutter, 2=Dimmer, 3=Red 8 bit, 4=Red 16 bit, 5=Green 8 bit, 6=Green 16 bit, 7=Blue 8 bit, 8=Blue 16 bit, 9=White 8 bit, 10=White 16 bit, 11=White pre-programmed, 12=CTC, 13=Macro, 14=Function

**Z1 Full 8 bit 160 ch** = (10x16) 160 DMX ch mode same as Z1 Type 8 bit 10ch but each output with independent DMX control:  
Output 1=DMX 1, Output 2= DMX 11, Output 3= DMX 21 ...

**Z1 Full 16 bit 224ch** = (14x16) 224 DMX ch mode same as Z1 Type 16 bit 14ch but each output with independent DMX control:  
Output 1 = DMX 1, Output 2 = DMX 15,  
Output 3 = DMX 29...

**Z1 Short Full 8 bit 96ch** = (6x16) 96 DMX ch mode with Dimmer, Shutter and RGBW 8 bit channels and each output with independent DMX control  
Output 1 = DMX 1, Output 2 = DMX 7,  
Output 3 = DMX 13...

**Z1 Short Full 16 bit 160ch** = (10x16) 160 DMX ch mode with RGBW 16 bit each colour and each output with independent DMX control  
Output 1 = DMX 1, Output 2 = DMX 11,  
Output 3 = DMX 21...  
1-Dimmer, 2-Shutter, 3-Red 8 bit, 4-Red 16 bit, 5-Green 8 bit, 6-Green 16 bit, 7-Blue 8 bit, 8-Blue 16 bit, 9-White 8 bit, 10-White 16 bit

**1ch Full Mode** = 1 DMX channel



LED



RGBW MINIMUM VALUES

This menu allows to select the minimum levels for Red/White1, Green/White2, Blue/White3 and White/White4.

RGBW MAXIMUM VALUES

This menu allows to select the maximum levels for Red/White1, Green/White2, Blue/White3 and White/White4. These settings have priority on Master Dimmer channel.

SMOOTH VALUE

This menu allows to select the value of the delay (in milliseconds) for RGBA and Dimmer channels reaction to DMX or program variation.  
4 = 25 ms delay (Fast response)  
20 = 250 ms delay (Slow response)

GAMMA CORRECTION

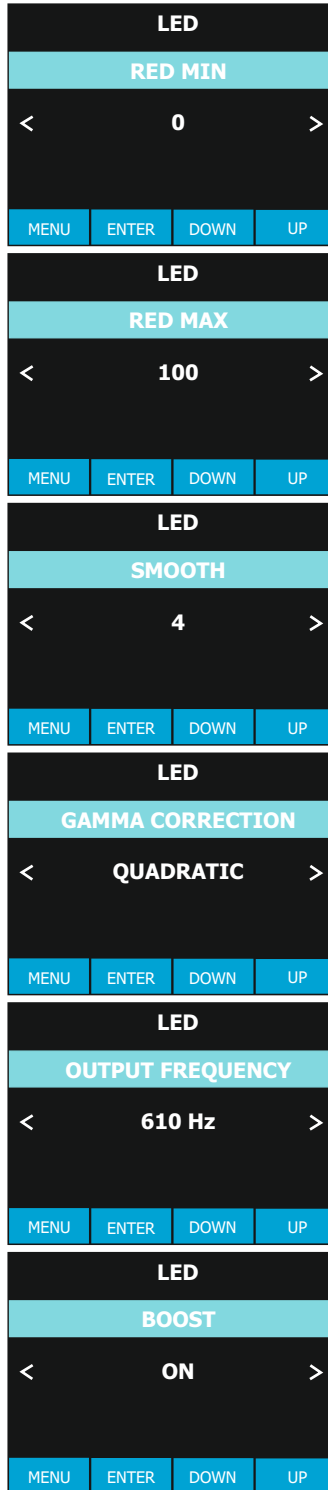
This menu allows to select between Linear current output or Quadratic current output for LEDs  
Default = Quadratic

OUTPUT FREQUENCY

This menu allows to adjust the PWM frequency value (Hz) in order to reduce flickering in the process of your camera Recordings

LED BOOST

With Boost ON, the LED's current has the same value pre-set into the "LED CURRENTS" menu (see below).  
With Boost OFF the medium current of each output channel is approximately 30% less (through PWM modulation) of the maximum current pre-set into the "LED CURRENTS" menu.



RED Min default = 0  
RED Max default = 100

GREEN Min default = 0  
GREEN Max default = 100

BLUE Min default = 0  
BLUE Max default = 100

WHITE Min default = 0  
WHITE Max default = 100

SMOOTH  
Range = Off - 20  
Default = 4

GAMMA CORRECTION  
Linear = Linear current output  
Quadratic = Linear light output (default)

OUTPUT FREQUENCY  
Range = 610 Hz - 20 KHz  
Default = 610 Hz

LED BOOST  
ON-OFF  
Default = OFF



LED CURRENTS

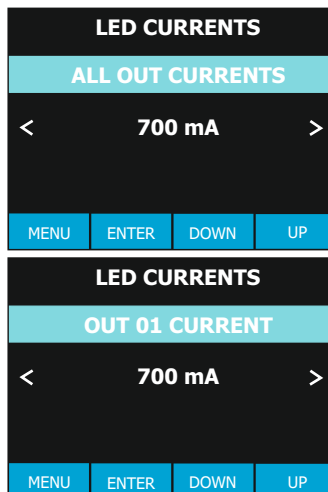


ALL OUTPUT CHANNELS CURRENT SELECTION

This menu allows to select the same maximum LED current (peak) for all output channels.

OUTPUT CHANNEL CURRENT SELECTION

This menu allows to select the maximum LED current (peak) independently for each output channel.



LED CURRENTS  
Range = 200 mA - 700 mA (50mA by 50mA selectable steps)  
Default = 700 mA





AUTO



### AUTOMATIC MODE

Automatic demo game without DMX controller

### STEP 01/16

Chase with 16 steps previously created in REC MODE

Speed time, Wait time and Dimmer values selectable by user.

### PERSONAL COLOURS

RGBA, Dimmer and Shutter values selectable by user.

### RAINBOW

Rainbow colours effect.

Speed time, Dimmer and Shutter values Selectable by user.

### FIXED COLOURS

Sixteen colour macros as on "MACRO" channel.

Dimmer and Shutter values selectable by user.

### WHITE MACROS

Sixteen macros for White colour.

Dimmer and Shutter values selectable by user.

<b>AUTO</b>			
<b>SURE?</b>			
< MENU: NO - ENTER: YES >			
MENU	ENTER	DOWN	UP
<b>AUTO-PROGRAM</b>			
<b>STEP</b>			
< 01/16 >			
MENU	ENTER	DOWN	UP
<b>AUTO-PERS.COLORS</b>			
<b>RED</b>			
< 120 >			
MENU	ENTER	DOWN	UP
<b>AUTO-RAINBOW</b>			
<b>SPEED</b>			
< 0006 >			
MENU	ENTER	DOWN	UP
<b>AUTO-FIXED COLORS</b>			
<b>COLOR</b>			
< 9 >			
MENU	ENTER	DOWN	UP
<b>AUTO-WHITE</b>			
<b>WHITE</b>			
< 1 >			
MENU	ENTER	DOWN	UP

By setting all the units connected to the MASTER to DMX address 1, they will be synchronized with the Master unit following the chase selected on it, including Time and Wait of the Master unit.





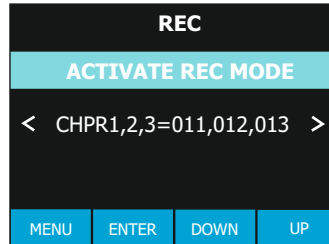
REC



### REC MODE

In DMX Recorder mode it is possible to create and store the scenes of the CHPR menu by using an external DMX controller.

DRIVENET is forced to Z1 Type 8 bit 10ch mode.

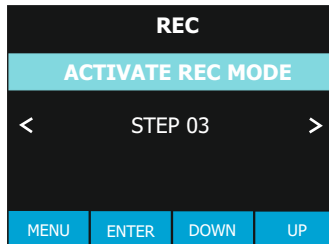


For the programming of ChPr by using a DMX controller, besides the 10 channels a further 3 DMX channels are needed. So that in REC mode (via DMX) the unit will need 13 channels to be correctly programmed. The three new DMX channels are:

### DMX channel 11 = CHPR1

From 0-24 = no function

From 25-255 it is possible to select one of the 16 programmable scenes



### DMX channel 12 = CHPR2

From 0-19 it is shown the selected scene

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

With the channel CHPR2 it is possible to pass from one step to the next while with channel CHPR3 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 CHPR3 it is possible to record the selected scene as last scene.

### DMX channel 13 = CHPR3

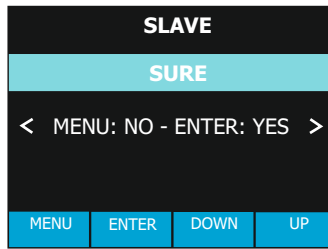
Records the scene with a variation between 0-128 to 129-255 (the display flashes indicating that the scene has been recorded).

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 (Channel CHPR2 between 235-255), in AUTO mode all 16 scenes will be played through even if not programmed.



SLAVE

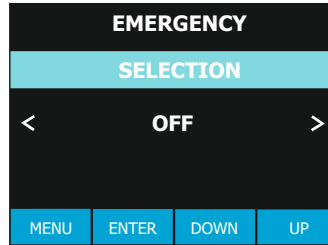


SLAVE MODE

The unit is forced to DMX address 1 receiving signal from the unit set in Auto mode.



EMERGENCY



EMERGENCY  
Disable = Default

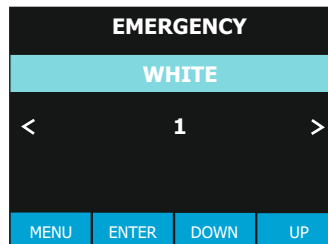


EMERGENCY OPERATING MODE.

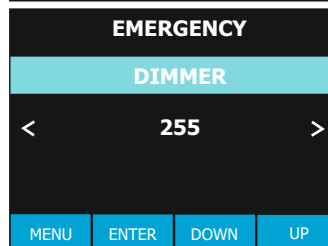
By setting this mode, it will be possible to select one of the 16 pre-programmed White cues that will then ran if DMX signal is missing or not available.

Useful for emergency exit illumination on public areas.

Dimmer level selectable by user.



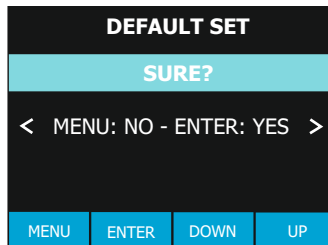
WHITE (1-16)  
Default = WHITE 1



DIMMER  
Default = 255



DEFAULT SET

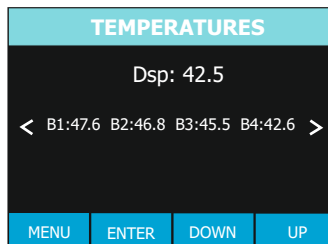


DEFAULT SETTINGS

To restore factory settings



TEMPERATURES

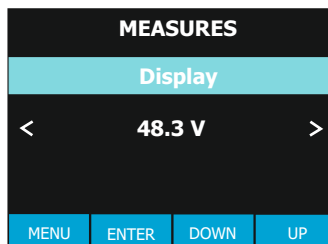


TEMPERATURES

Display board and 4 LED Driver boards temperature monitoring

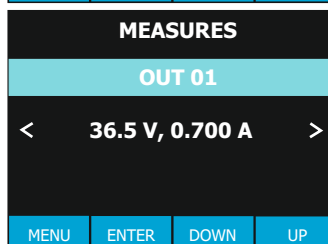


MEASURES



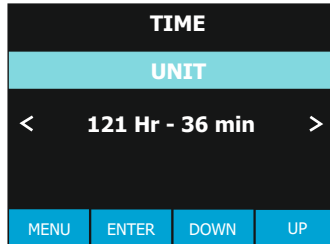
STATUS OF THE CONNECTED UNITS

This menu allows to check the status (current and voltage) of the connected units.





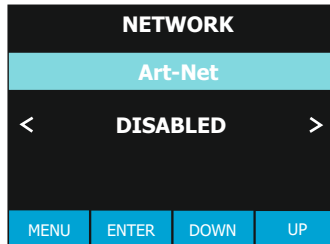
TIME



This menu shows the total UNIT life time and the RGBW life time



NETWORK



Art-NET ENABLED or DISABLED  
Default = DISABLED



**Art-NET COMMUNICATION PROTOCOL**  
This menu allows to enable/disable the Art-NET communication protocol. With Art-NET enabled the Art-NET signal has the priority on the DMX signal.

**Art-NET DMX UNIVERSE**  
This menu allows to set the DMX universe.

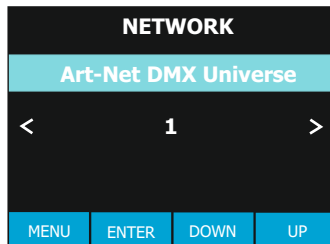
**NETWORK SETTINGS**  
This menu allows to choose the mode to set the network parameters (IP address, Subnet mask, Gateway, DNS):  
USE DHCP = automatic setting of the network parameters through a DHCP server on the local area network.  
FIXED = Fixed setting of the network parameters.  
CUSTOM = Manual setting of the network parameters.

**IP ADDRESS**  
This menu shows the IP address of the DRIVENET.  
You can set up all bytes of the IP address only if NETWORK SETTINGS = CUSTOM.

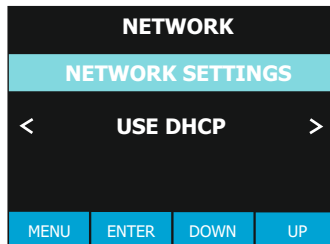
**SUBNET MASK**  
This menu shows the subnet mask.  
You can set up all bytes of the subnet mask only if NETWORK SETTINGS = CUSTOM.

**GATEWAY**  
This menu shows the gateway.  
You can set up all bytes of the gateway only if NETWORK SETTINGS = CUSTOM.

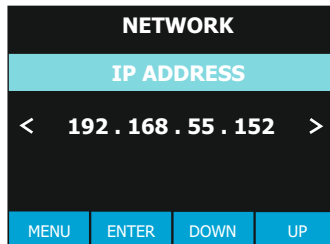
**DNS**  
This menu shows the domain name server.  
You can set up all bytes of the DNS only if NETWORK SETTINGS = CUSTOM.



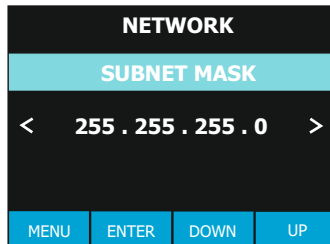
Art-NET DMX Universe  
Range: 0 - 255  
Default = 0



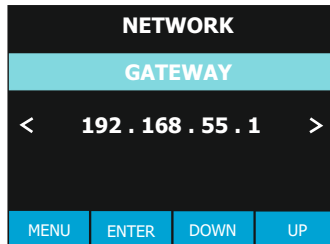
NETWORK SETTINGS: USE DHCP, FIXED or CUSTOM  
Default = USE DHCP



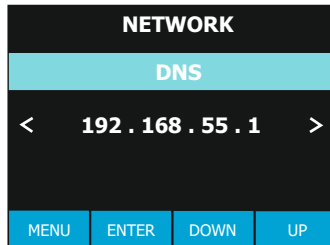
IP ADDRESS  
IP address displaying



SUBNET MASK  
Subnet mask displaying



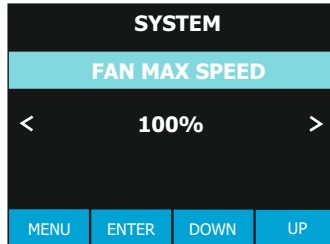
GATEWAY  
Gateway displaying



DNS  
Domain name server displaying



**SYSTEM**



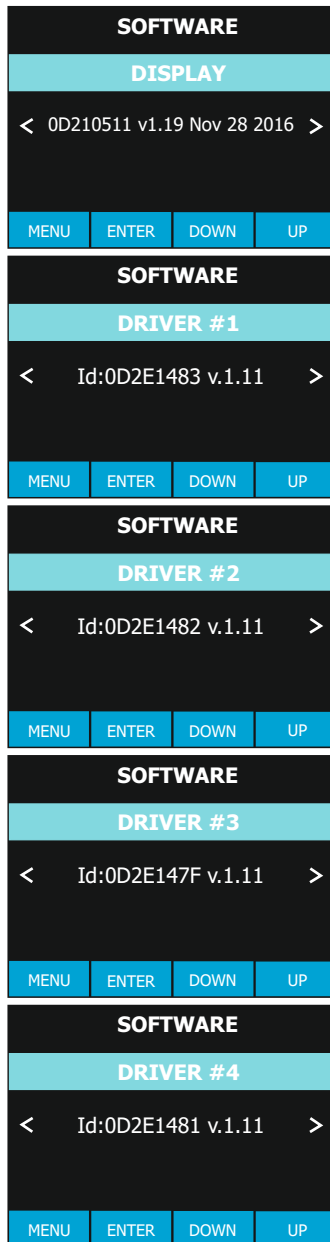
FAN MAX SPEED  
50% - 100%  
Default = 100%



**FAN MAX SPEED**  
This menu allows to select the internal fans speed



**SOFTWARE**



Display board software version



**SOFTWARE**  
Display board and LED Driver boards software version

LED Driver board 1 software version

LED Driver board 2 software version



**DMX PROTOCOL****FULL TYPE 8 BIT 64 ch mode (Default)**

1	RED	1	17	RED	5	33	RED	9	49	RED	13
2	GREEN	1	18	GREEN	5	34	GREEN	9	50	GREEN	13
3	BLUE	1	19	BLUE	5	35	BLUE	9	51	BLUE	13
4	WHITE	1	20	WHITE	5	36	WHITE	9	52	WHITE	13
5	RED	2	21	RED	6	37	RED	10	53	RED	14
6	GREEN	2	22	GREEN	6	38	GREEN	10	54	GREEN	14
7	BLUE	2	23	BLUE	6	39	BLUE	10	55	BLUE	14
8	WHITE	2	24	WHITE	6	40	WHITE	10	56	WHITE	14
9	RED	3	25	RED	7	41	RED	11	57	RED	15
10	GREEN	3	26	GREEN	7	42	GREEN	11	58	GREEN	15
11	BLUE	3	27	BLUE	7	43	BLUE	11	59	BLUE	15
12	WHITE	3	28	WHITE	7	44	WHITE	11	60	WHITE	15
13	RED	4	29	RED	8	45	RED	12	61	RED	16
14	GREEN	4	30	GREEN	8	46	GREEN	12	62	GREEN	16
15	BLUE	4	31	BLUE	8	47	BLUE	12	63	BLUE	16
16	WHITE	4	32	WHITE	8	48	WHITE	12	64	WHITE	16

DMX CHANNEL	1	Parameter: <b>RED 1</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	2	Parameter: <b>GREEN1</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	3	Parameter: <b>BLUE 1</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	4	Parameter: <b>WHITE 1</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	5	Parameter: <b>RED 2</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	6	Parameter: <b>GREEN 2</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	7	Parameter: <b>BLUE 2</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	8	Parameter: <b>WHITE 2</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	9	Parameter: <b>RED 3</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	10	Parameter: <b>GREEN 3</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	11	Parameter: <b>BLUE 3</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	12	Parameter: <b>WHITE 3</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	13	Parameter: <b>RED 4</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	14	Parameter: <b>GREEN 4</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	15	Parameter: <b>BLUE 4</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	16	Parameter: <b>WHITE 4</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	17	Parameter: <b>RED 5</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	18	Parameter: <b>GREEN 5</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	19	Parameter: <b>BLUE 5</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	20	Parameter: <b>WHITE 5</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	21	Parameter: <b>RED 6</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	22	Parameter: <b>GREEN 6</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	23	Parameter: <b>BLUE 6</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	24	Parameter: <b>WHITE 6</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	25	Parameter: <b>RED 7</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	26	Parameter: <b>GREEN 7</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	27	Parameter: <b>BLUE 7</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	28	Parameter: <b>WHITE 7</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	29	Parameter: <b>RED 8</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	30	Parameter: <b>GREEN 8</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	31	Parameter: <b>BLUE 8</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	32	Parameter: <b>WHITE 8</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	33	Parameter: <b>RED 9</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	34	Parameter: <b>GREEN 9</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	35	Parameter: <b>BLUE 9</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	36	Parameter: <b>WHITE 9</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	37	Parameter: <b>RED 10</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	38	Parameter: <b>GREEN 10</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	39	Parameter: <b>BLUE 10</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	40	Parameter: <b>WHITE 10</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	41	Parameter: <b>RED 11</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	42	Parameter: <b>GREEN 11</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	43	Parameter: <b>BLUE 11</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	44	Parameter: <b>WHITE 11</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	45	Parameter: <b>RED 12</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	46	Parameter: <b>GREEN 12</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	47	Parameter: <b>BLUE 12</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	48	Parameter: <b>WHITE 12</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	49	Parameter: <b>RED 13</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	50	Parameter: <b>GREEN 13</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	51	Parameter: <b>BLUE 13</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	52	Parameter: <b>WHITE 13</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	53	Parameter: <b>RED 14</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	54	Parameter: <b>GREEN 14</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	55	Parameter: <b>BLUE 14</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	56	Parameter: <b>WHITE 14</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	57	Parameter: <b>RED 15</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	58	Parameter: <b>GREEN 15</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	59	Parameter: <b>BLUE 15</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	60	Parameter: <b>WHITE 15</b>			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>



DMX CHANNEL	<b>61</b>	Parameter: <b>RED 16</b>
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	<b>62</b>	Parameter: <b>GREEN 16</b>
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	<b>63</b>	Parameter: <b>BLUE 16</b>
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

DMX CHANNEL	<b>64</b>	Parameter: <b>WHITE 16</b>
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>000-255</b>					<b>Proportional colour</b>

**DMX PROTOCOL****Z1 TYPE 8 BIT 10 ch mode**

- 1 SHUTTER**
- 2 DIMMER**
- 3 RED**
- 4 GREEN**
- 5 BLUE**
- 6 WHITE**
- 7 WHITE PRE-PROGRAMMED**
- 8 CTC**
- 9 MACRO**
- 10 FUNCTIONS**

DMX CHANNEL	<b>1</b>	Parameter: <b>SHUTTER</b>
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>0-9</b>	<b>5</b>				<b>Black-out</b>
<b>10-19</b>	<b>14</b>				<b>Open</b>
<b>20-29</b>	<b>24</b>				<b>Black-out</b>
<b>30-119</b>					<b>Strobe (3,27 s - 30 ms)</b>
<b>120-149</b>					<b>Pulse up (42,6 s - 120 ms)</b>
<b>150-179</b>					<b>Pulse down (42,6 s - 120 ms)</b>
<b>180-204</b>	<b>192</b>				<b>Random Strobe (Master and RGBW active)</b>
<b>205-229</b>	<b>218</b>				<b>Full Independent Random Strobe</b>
<b>230-234</b>	<b>232</b>				<b>Colors sequence RED YELLOW CYAN BLUE</b>
<b>235-255</b>	<b>245</b>				<b>Open</b>

DMX CHANNEL	<b>2</b>	Parameter: <b>DIMMER</b>
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>0-255</b>					<b>Proportional dimmer</b>

DMX CHANNEL	<b>3</b>	Parameter: <b>RED</b>
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>0-255</b>					<b>Proportional colour</b>

DMX CHANNEL	4	Parameter: <b>GREEN</b>
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>0-255</b>					<b>Proportional colour</b>

DMX CHANNEL	5	Parameter: <b>BLUE</b>
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>0-255</b>					<b>Proportional colour</b>

DMX CHANNEL	6	Parameter: <b>WHITE</b>
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>0-255</b>					<b>Proportional colour</b>

DMX CHANNEL	7	Parameter: <b>WHITE PRE-PROGRAMMED</b>
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>0-55</b>	<b>23</b>				<b>No Function</b>
<b>56-105</b>	<b>80</b>				<b>Full (RGBW at Full)</b>
<b>106-155</b>	<b>130</b>				<b>DTS White</b>

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

<b>156-205</b>	<b>180</b>	<b>Custom White Recall</b>			
<b>206-255</b>	<b>225</b>	<b>White CTC (Channel 8 CTC enabled Color Temperature Correction Macros)</b>			

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

<b>156-205</b>	<b>180</b>	<b>Custom White Create (RGBW levels selectable by DMX)</b>			
<b>206-255</b>	<b>225</b>	<b>White CTC (Channel 8 CTC enabled Color Temperature Correction Macros)</b>			

DMX CHANNEL	<b>8</b>	Parameter: <b>CTC</b>
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
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**IF CHANNEL 7 (WHITE PRE-PROGRAMMED) = WHITE CTC (Dmx range value 206 - 255)**

<b>0-255</b>	<b>Color Temperature Correction Macros</b>				
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**IF CHANNEL 7 (WHITE PRE-PROGRAMMED) = NO FUNCTION (Dmx range value 0 - 43)**

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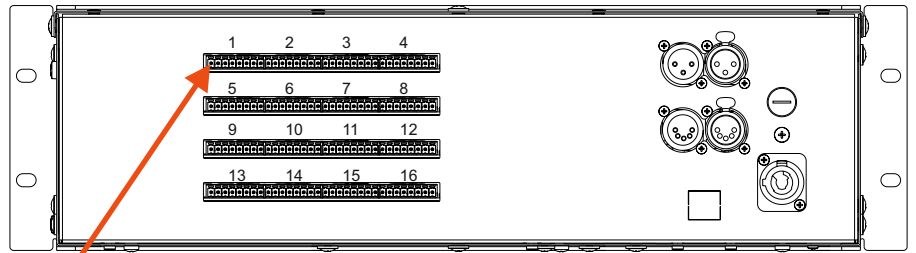
DMX CHANNEL	<b>9</b>	Parameter: <b>MACRO</b>
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>0-14</b>					<b>No Function</b>
<b>15-29</b>					<b>Macro 1</b>
<b>30-44</b>					<b>Macro 2</b>
<b>45-59</b>					<b>Macro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

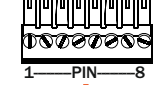
DMX CHANNEL	<b>10</b>	Parameter: <b>FUNCTION (Recall, Create and Store the Custom white)</b>
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
<b>0-79</b>		<b>Custom White Recall (Enable CH 7 for Custom white Recall)</b>			
<b>80-160</b>		<b>Custom White Create (Enable CH 7 for Custom white Creation)</b>			
<b>161-255</b>		<b>Custom White Store (Store the Custom White created )</b>			

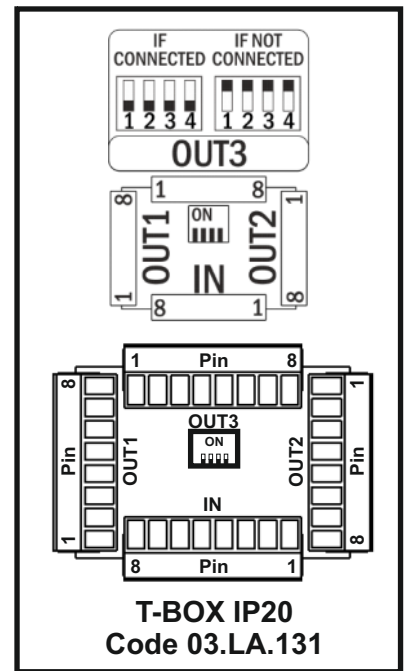
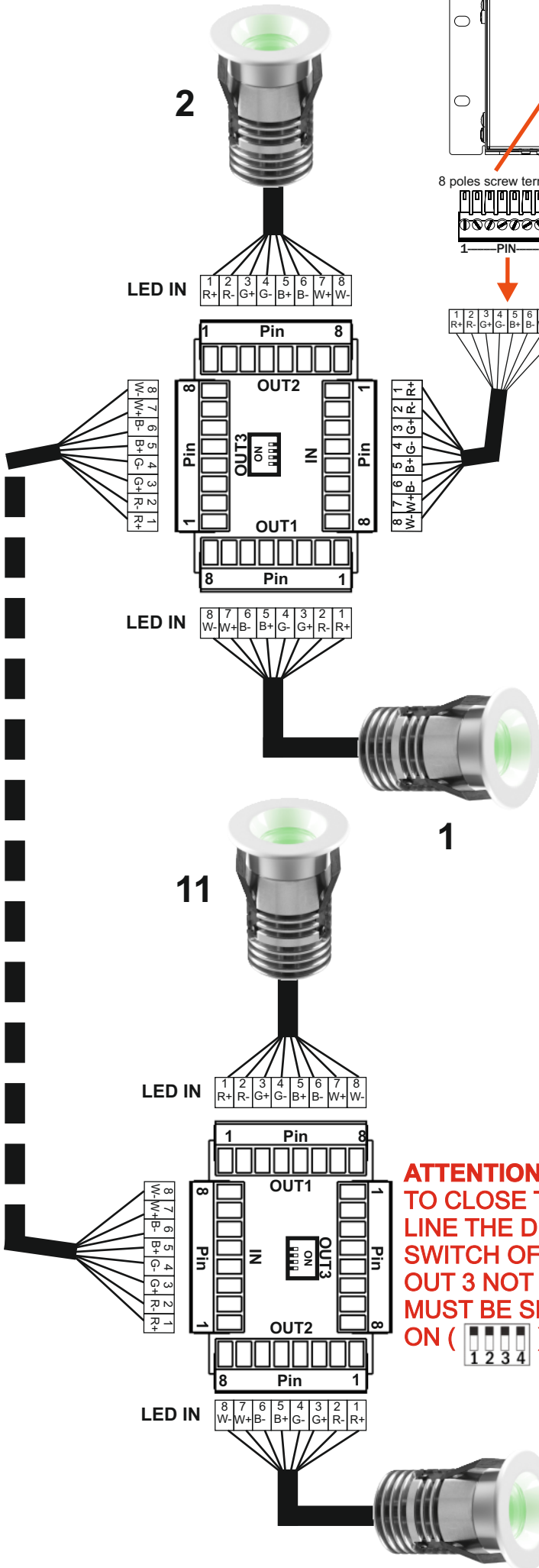
**CONNECTION DIAGRAM**




8 poles screw terminals



CONNECTION		
PIN OUT	LED	WIRES COLOURS
PIN 1	RED +	WHITE
PIN 2	RED -	BROWN
PIN 3	GREEN +	GREEN
PIN 4	GREEN -	YELLOW
PIN 5	BLUE +	GREY
PIN 6	BLUE -	PINK
PIN 7	WHITE +	RED
PIN 8	WHITE -	BLUE



**ATTENTION:**  
TO CLOSE THE  
LINE THE DIP  
SWITCH OF THE  
OUT 3 NOT USED  
MUST BE SET TO  
ON (  ).

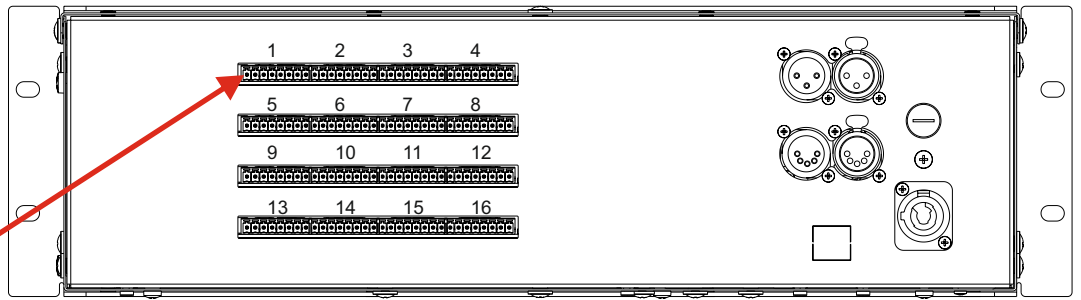
The maximum number of VICE R FC connectable to each output of DRIVENET 1664 PSU is 12 pcs.

Never plug the cable coming from the PSU into OUT 1, OUT 2 or OUT 3 of the T-BOX because a wrong connection can seriously damage the unit or the PSU.

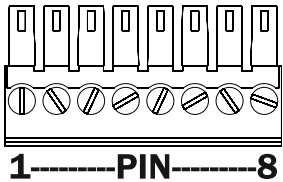
Never plug in a new VICE R FC when the PSU is turned on.

The maximum distance between DRIVENET PSU and the unit should not exceed 100 meters.

**CONNECTION DIAGRAM**

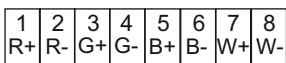


8 poles screw terminals



CONNECTION		
PIN OUT	LED	WIRES COLOURS
PIN 1	RED +	WHITE
PIN 2	RED -	BROWN
PIN 3	GREEN +	GREEN
PIN 4	GREEN -	YELLOW
PIN 5	BLUE +	GREY
PIN 6	BLUE -	PINK
PIN 7	WHITE +	RED
PIN 8	WHITE -	BLUE

LEDs OUTPUT 1



8 poles to M12 female cable converter



M12 Male Connector

CONNECTION		
PIN OUT	LED	WIRES COLOURS
PIN 1	RED +	WHITE
PIN 2	RED -	BROWN
PIN 3	GREEN +	GREEN
PIN 4	GREEN -	YELLOW
PIN 5	BLUE +	GREY
PIN 6	BLUE -	PINK
PIN 7	WHITE -	BLUE
PIN 8	WHITE +	RED



FOS 100 FC

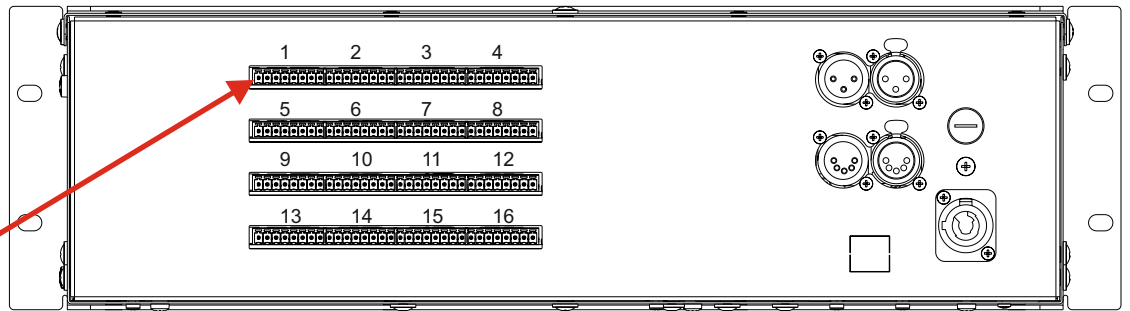
The maximum number of FOS 100 FC connectable to each output of the DRIVENET 1664 PSU is 1 piece.

The maximum number of FOS 33 FC connectable to each output of the DRIVENET 1664 PSU is 3 pcs (2 x FOS 33 IN/OUT + 1 x FOS 33 END).

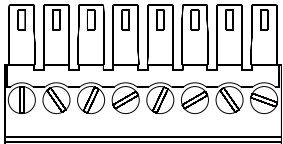
NEVER CONNECT OR DISCONNECT THE UNIT WHEN THE PSU IS TURNED ON.

The maximum distance between DRIVENET 1664 and FOS unit should not exceed 50 meters.

**CONNECTION DIAGRAM**

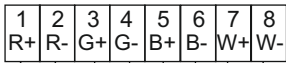


8 poles screw terminals



1-----PIN-----8

LEDs OUTPUT 1



CONNECTION		
PIN OUT	LED	WIRES COLOURS
PIN 1	RED +	WHITE
PIN 2	RED -	BROWN
PIN 3	GREEN +	GREEN
PIN 4	GREEN -	YELLOW
PIN 5	BLUE +	GREY
PIN 6	BLUE -	PINK
PIN 7	WHITE +	RED
PIN 8	WHITE -	BLUE

8 poles to M12 female cable converter



CONNECTION		
PIN OUT	LED	WIRES COLOURS
PIN 1	RED +	WHITE
PIN 2	RED -	BROWN
PIN 3	GREEN +	GREEN
PIN 4	GREEN -	YELLOW
PIN 5	BLUE +	GREY
PIN 6	BLUE -	PINK
PIN 7	WHITE -	BLUE
PIN 8	WHITE +	RED

The maximum number of FREELINE 60 FC or FREELINE 90 FC unit connectable to each output of the DRIVENET 1664 PSU is 1 piece.

NEVER CONNECT OR DISCONNECT THE UNIT WHEN THE PSU IS TURNED ON.

The maximum distance between the DRIVENET PSU and the unit should not exceed 100 meters.

PROUDLY  
MADE IN ITALY



DTS products are designed  
and manufactured at the  
DTS plants in Italy



**ISO 9001:2008**

DTS quality system is certified  
to the ISO 9001:2008 standard

**D.T.S. Illuminazione s.r.l** - Via Fagnano Selve 12-14  
47843 Misano Adriatico (RN) Italy  
Tel.: +39 0541 611131 Fax +39 0541 611111  
Info@dts-lighting.it www.dts-lighting.it



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