DRIVENET 1664 24 V

User's Manual rel 1.0 **GB**

TECHNICAL SPECIFICATIONS

DTS Product codes:
03.LA.195 DRIVENET 1664 24Vdc Screw terminal outputs

Input voltage/frequency range: Full-range 100-240Vac 50-60Hz

Output channels: 64 (4 channels x 16 groups)

Output current: 700mA max (per channel)

Ouput voltage: 24Vdc

Max power: 1100W

Max projectors distance: 100 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

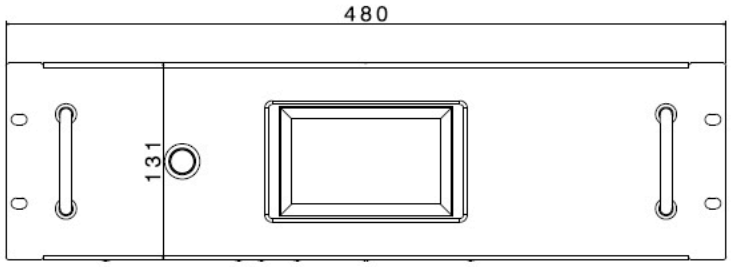
Accessories included
1 x PowerCON female cable connector (code 0520P014)
1 x XLR 5 pins male cable connector (code 0508B148)
1 x XLR 5 pins female cable connector (code 0508B147)

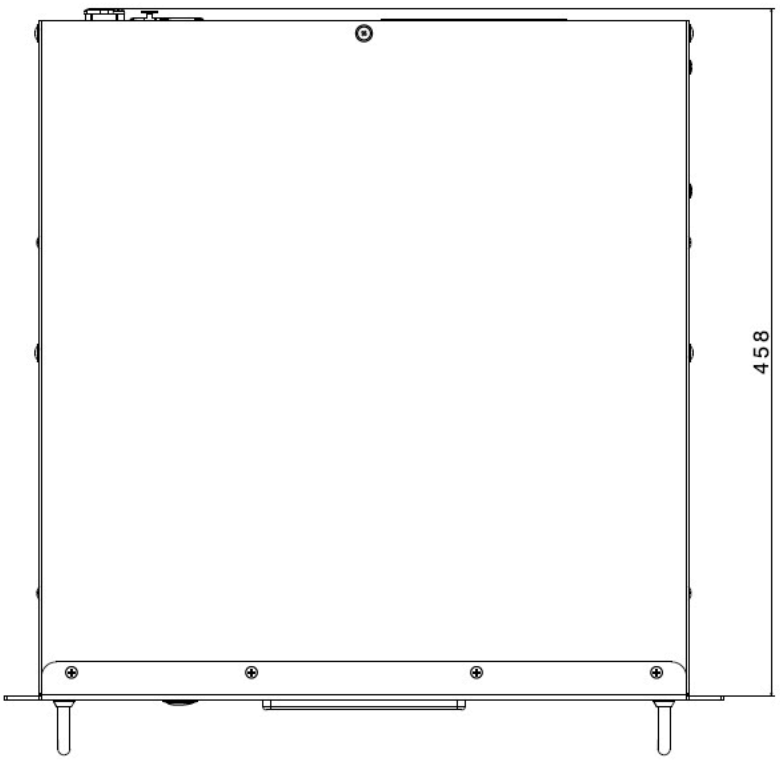
Accessories on request
Art-Net interface PCB (code 0514T027)

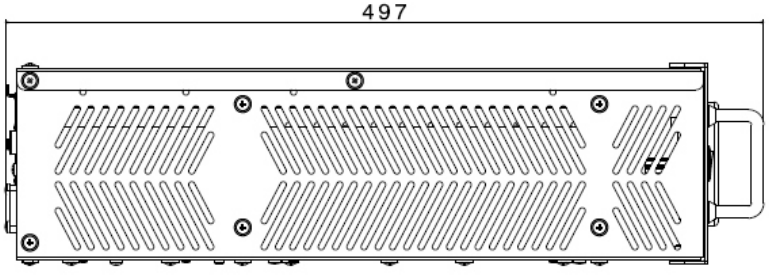
RDM FUNCTIONS

DRIVENET 1664 24V do accept the following RDM commands:
- Discovery
- Read/set DMX address
- Read/set personality
- Identify (All outputs at max power)
- Producer ID
- Model description
- Software version

DIMENSIONS







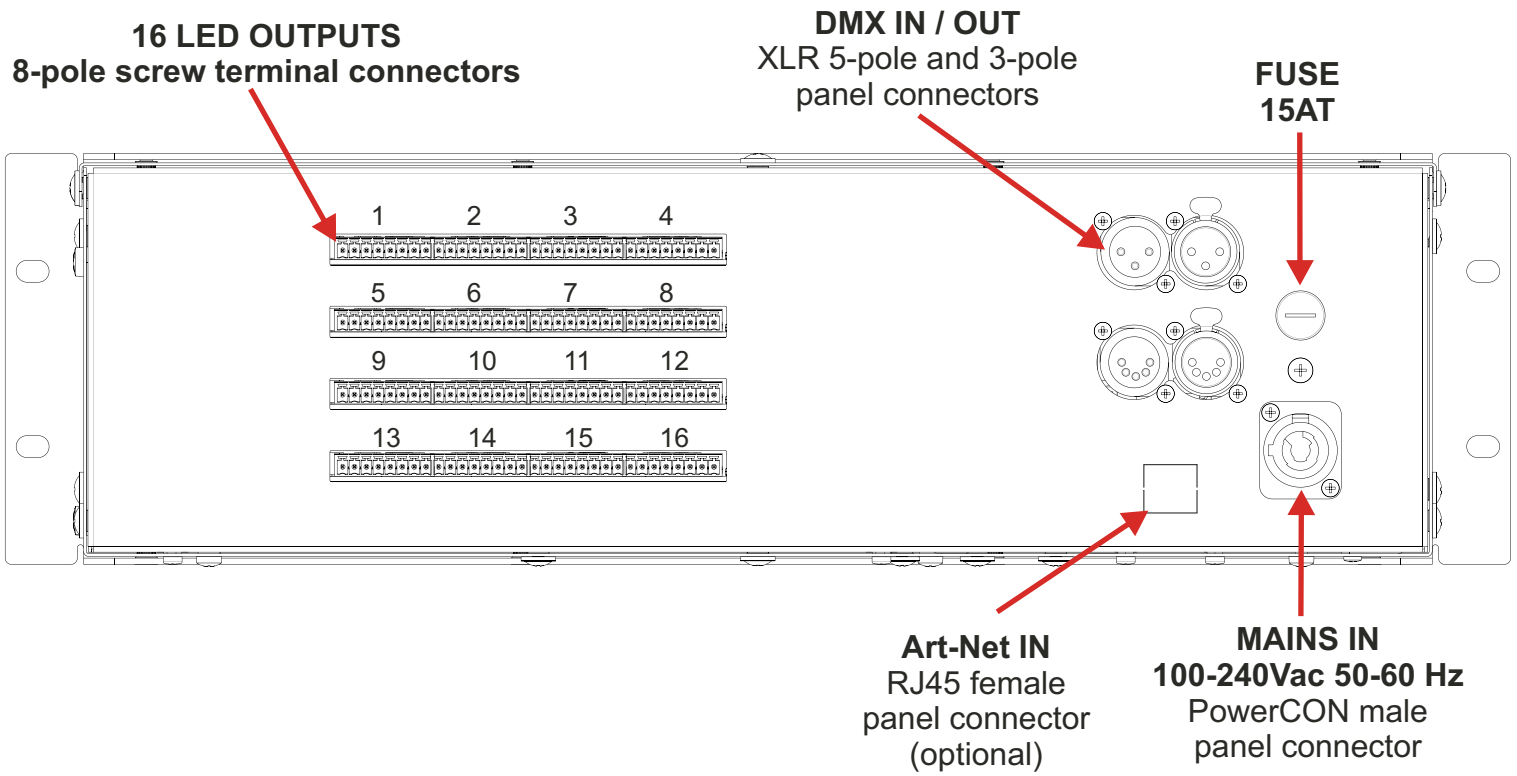
IMPORTANT SAFETY INFORMATION

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 24Vdc.
Use only AC supplies 100-240V 50-60Hz.
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.

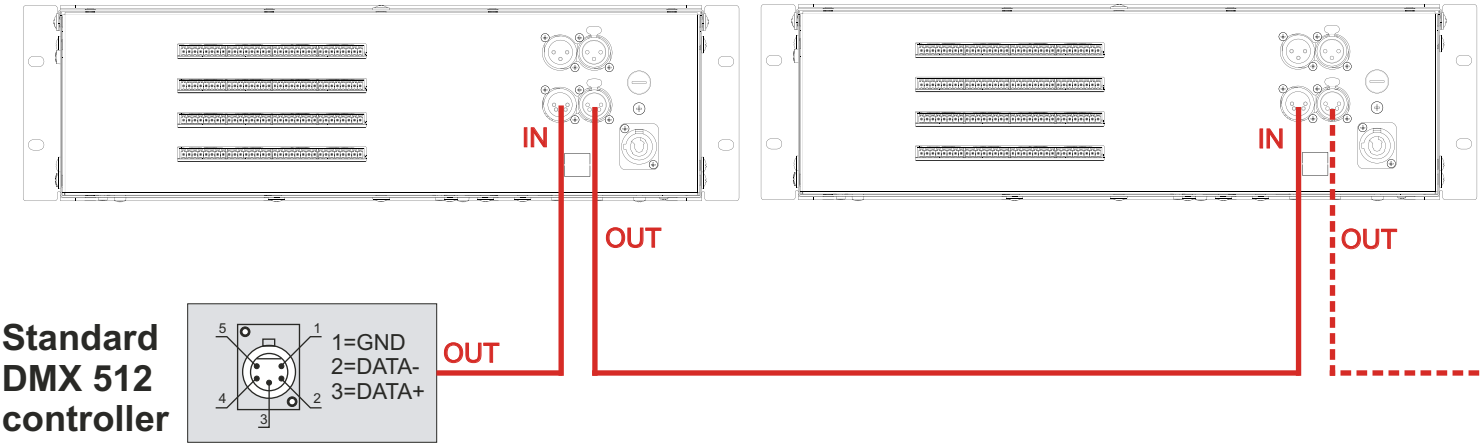
CONNECTIONS PANEL



The maximum distance between DRIVENET 1664 24Vdc and the unit should not exceed 100 meters.

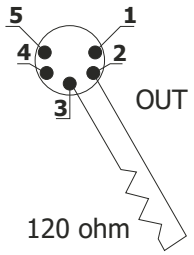
DMX SIGNAL CONNECTION:

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 ø 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.

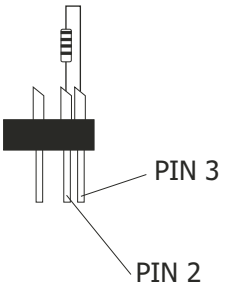


P.S: If the display showing the DMX address flashes, then one of the following errors has occurred:
- DMX signal not present
- DMX reception problem

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 24Vdc 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 24Vdc 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
Projector 3	A129
…..	A….
projector 6	A321

If you want to select the next projector, just add "64"

If you want to use the DRIVENET 832 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
Projector 3	A021
…..	A….
projector 6	A051

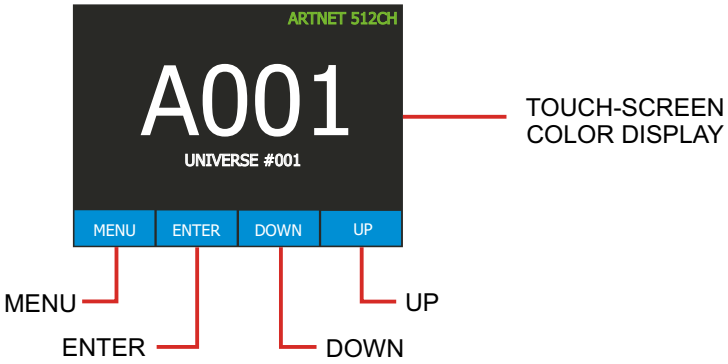
If you want to select the next projector, just add "10"

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.

DISPLAY FUNCTIONS



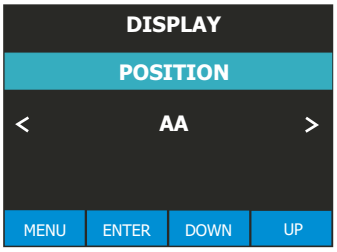
DISPLAY FUNCTIONS

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

☞ Menu ☞ Up-Down Display ☞ ENTER ☞ Up-Down

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 ☞ ENTER
ON THE GROUND (Default)
SUSPENDED

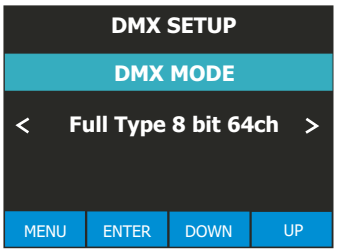
DISPLAY STANDBY ☞ ENTER
OFF = Display standby disabled (default)
ON = Display goes off after 30 seconds

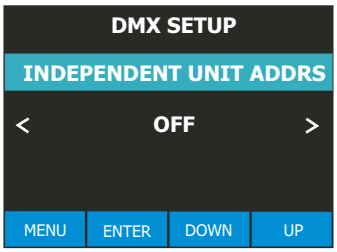
Menu Up-Down DMX Setup ENTER Up-Down

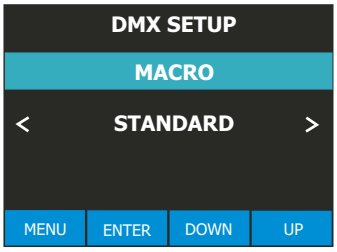
DMX MODE
To select DMX mode:
Full Type 8 bit 64 ch
Full Type 16 bit 128 ch
Z1 Type 8 bit 10 ch
Z1 Type 16 bit 14 ch (for Chase and Cue recording).
Z1 Full 8 bit 10x16 = 160 ch
Z1 Full 16 bit 14x16 = 224 ch
Z1 Short Full 8 bit 6x16 = 96 ch
Z1 Short Full 16 bit 10x16 = 160 ch
1 ch Full Mode = 1 ch

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 ENTER

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

Menu Up-Down LED ENTER Up-Down

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

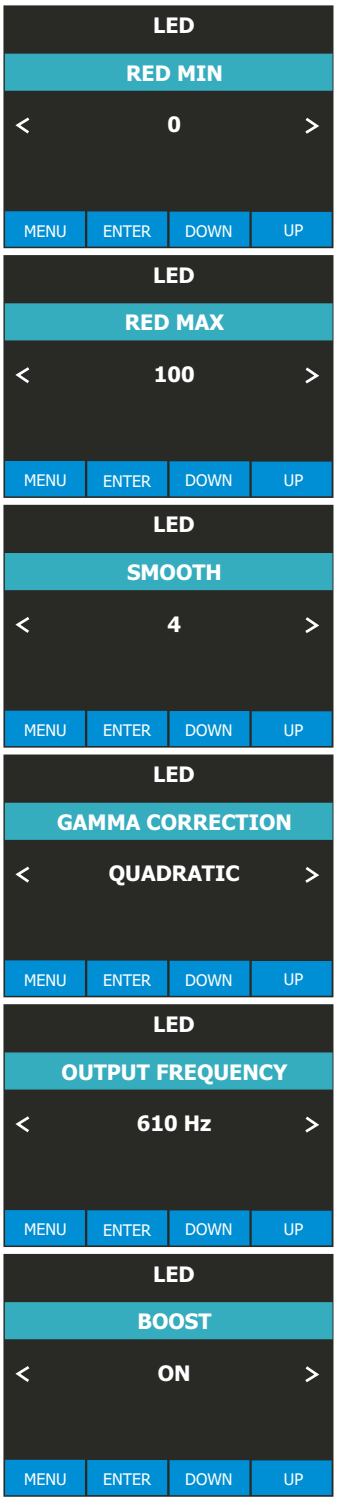
RGBW MAXIMUM VALUES
This menu allows to select the maximum levels for Red/White1, Green/White2, Blue/White3 and White/White4.
These settings have priority on Master Dimmer channel.

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
ENTER

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)

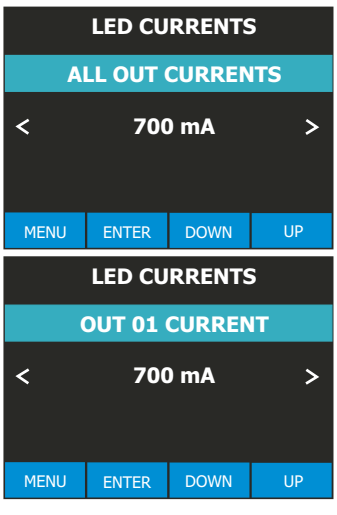
OUTPUT FREQUENCY
Range = 610 Hz - 20 KHz
Default = 610 Hz

LED BOOST
ON-OFF
Default = OFF

Menu Up-Down LED CURRENTS ENTER Up-Down

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
ENTER

Menu Up-Down AUTO ENTER Up-Down

AUTOMATIC MODE
Automatic demo game without DMX controller

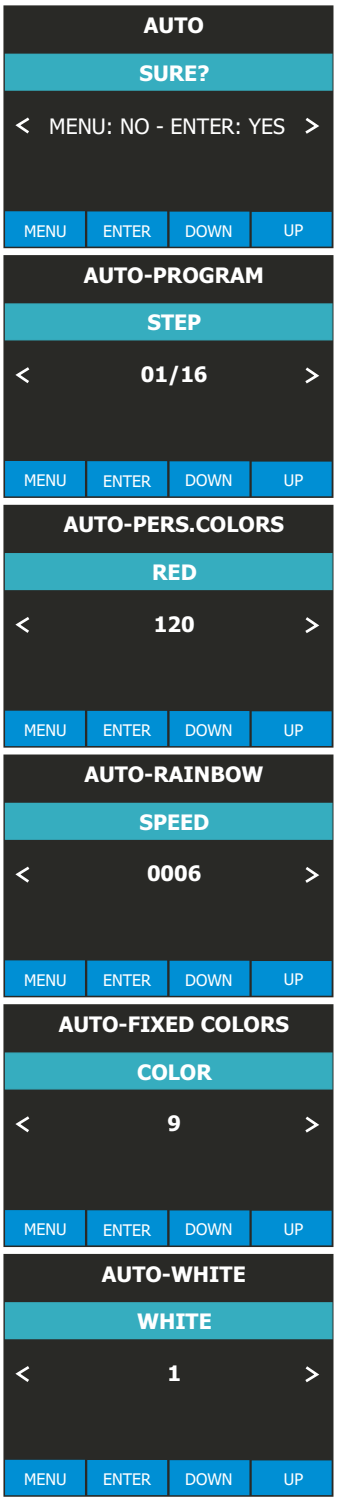
STEP 01/16
Chase with 16 steps previously created in REC MODE
Speed time, Wait time and Dimmer values selectable by user.

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.

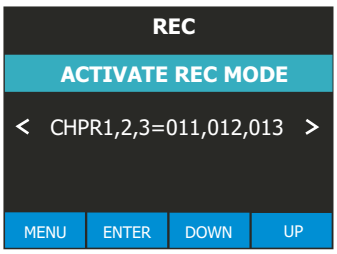


By setting all the units connected to the MASTER to DMX address 1, them will be synchronized with the Master unit following the chase selected on it, including Time and Wait of the Master unit.

ENTER

Menu Up-Down REC ENTER Up-Down

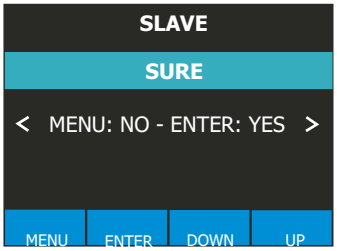
REC MODE
In DMX Recorder mode it is possible
To create and store the scenes of the CHPR menu by using an external DMX controller.
The unit must be set to Z1 Type 8 bit 10ch mode.



ENTER

Menu Up-Down SLAVE ENTER Up-Down

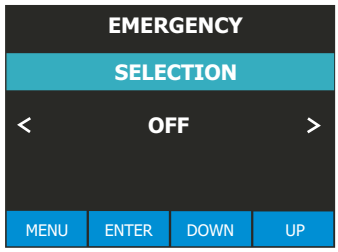
SLAVE MODE
The unit is forced to DMX address 1 receiving signal from the unit set in Auto mode.



ENTER

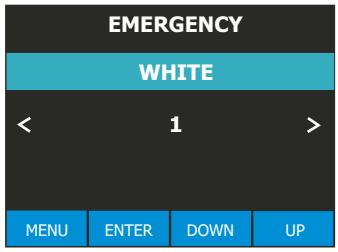
Menu Up-Down EMERGENCY ENTER Up-Down

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.

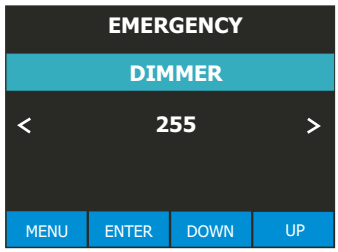


EMERGENCY
Disable = Default

ENTER



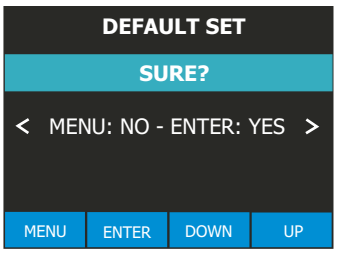
WHITE (1-16)
Default = WHITE 1



DIMMER
Default = 255

Menu Up-Down DEFAULT SET ENTER Up-Down

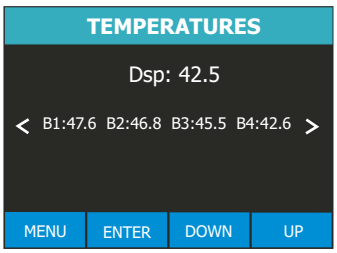
DEFAULT SETTINGS
To restore factory settings



ENTER

Menu Up-Down TEMPERATURES ENTER Up-Down

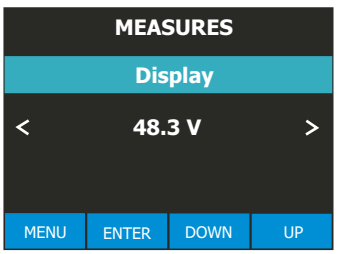
TEMPERATURES
Display board and 4 LED Driver boards temperature monitoring

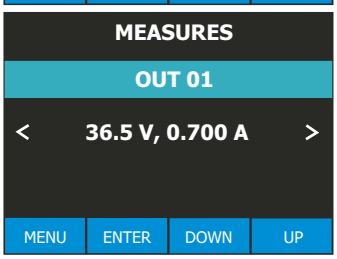


ENTER

Menu Up-Down MEASURES ENTER Up-Down

STATUS OF THE CONNECTED UNITS
This menu allows to check the status (current and voltage) of the connected units.

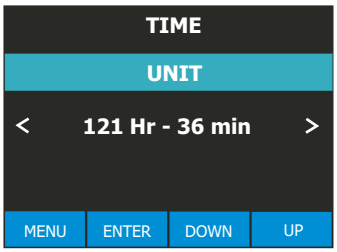




ENTER

Menu Up-Down TIME ENTER Up-Down

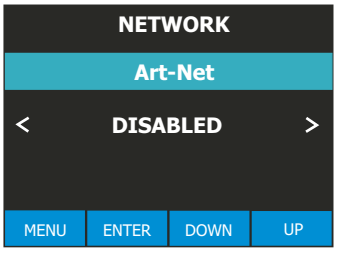
This menu shows the total UNIT life time and the RGBW life time



ENTER

Menu Up-Down NETWORK ENTER Up-Down

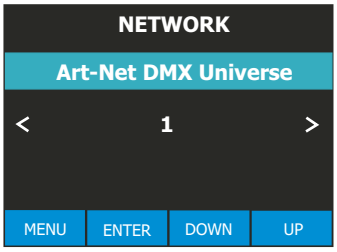
Art-NET COMMUNICATION PROTOCOL
This menu allows to enable/disable the Art-NET communication protocol.
With Art-NET enabled the Art-NET signal has the priority on the DMX signal.



Art-NET ENABLED or DISABLED
Default = DISABLED

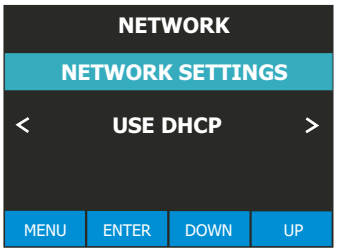
ENTER

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



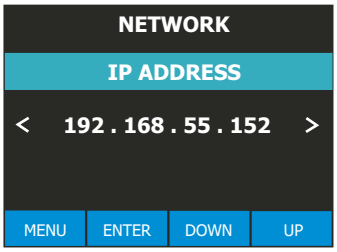
Art-NET DMX Universe
Range: 0 - 255
Default = 0

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.



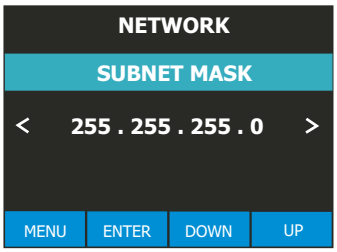
NETWORK SETTINGS: USE DHCP, FIXED or CUSTOM
Default = USE DHCP

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.



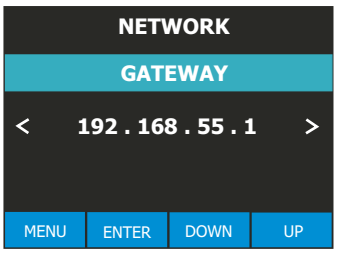
IP ADDRESS
IP address displaying

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



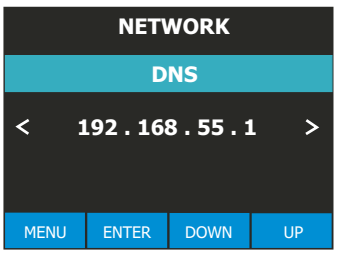
SUBNET MASK
Subnet mask displaying

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



GATEWAY
Gateway displaying

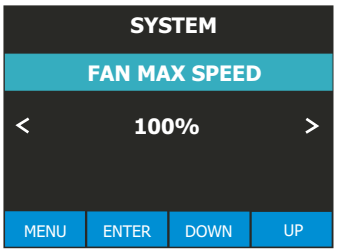
DNS
This menu shows the domain name server.
You can set up all bytes of the DNS only if NETWORK SETTINGS = CUSTOM.



DNS
Domain name server displaying

Menu Up-Down SYSTEM ENTER Up-Down

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

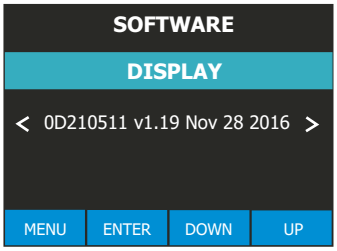


FAN MAX SPEED
50% - 100%
Default = 100%

ENTER

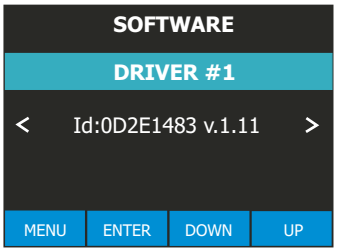
Menu Up-Down SOFTWARE ENTER Up-Down

SOFTWARE
Display board and LED Driver boards software version

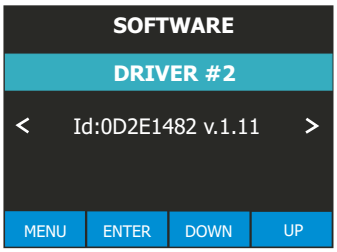


Display board software version

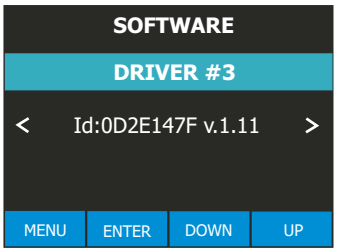
ENTER

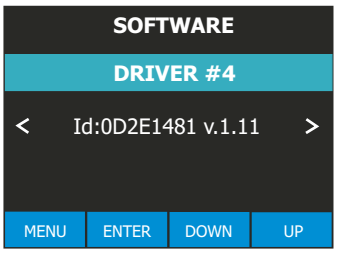


LED Driver board 1 software version



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: **RED 1**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	2	Parameter: **GREEN**1

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	3	Parameter: **BLUE 1**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	4	Parameter: **WHITE 1**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	5	Parameter: **RED 2**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	6	Parameter: **GREEN 2**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	7	Parameter: **BLUE 2**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	8	Parameter: **WHITE 2**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	9	Parameter: **RED 3**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	10	Parameter: **GREEN 3**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	11	Parameter: **BLUE 3**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	12	Parameter: **WHITE 3**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**13**	Parameter: **RED 4**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**14**	Parameter: **GREEN 4**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**15**	Parameter: **BLUE 4**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**16**	Parameter: **WHITE 4**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**17**	Parameter: **RED 5**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**18**	Parameter: **GREEN** 5

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**19**	Parameter: **BLUE 5**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**20**	Parameter: **WHITE 5**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**21**	Parameter: **RED 6**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**22**	Parameter: **GREEN 6**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**23**	Parameter: **BLUE 6**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**24**	Parameter: **WHITE 6**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**25**	Parameter: **RED 7**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**26**	Parameter: **GREEN 7**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**27**	Parameter: **BLUE 7**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**28**	Parameter: **WHITE 7**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**29**	Parameter: **RED 8**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**30**	Parameter: **GREEN 8**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**31**	Parameter: **BLUE 8**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**32**	Parameter: **WHITE 8**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**33**	Parameter: **RED 9**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**34**	Parameter: **GREEN 9**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**35**	Parameter: **BLUE 9**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**36**	Parameter: **WHITE 9**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**37**	Parameter: **RED 10**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**38**	Parameter: **GREEN 10**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**39**	Parameter: **BLUE 10**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**40**	Parameter: **WHITE 10**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**41**	Parameter: **RED 11**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**42**	Parameter: **GREEN 11**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**43**	Parameter: **BLUE 11**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**44**	Parameter: **WHITE 11**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**45**	Parameter: **RED 12**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**46**	Parameter: **GREEN 12**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**47**	Parameter: **BLUE 12**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**48**	Parameter: **WHITE 12**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**49**	Parameter: **RED 13**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**50**	Parameter: **GREEN 13**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**51**	Parameter: **BLUE 13**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**52**	Parameter: **WHITE 13**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**53**	Parameter: **RED 14**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**54**	Parameter: **GREEN 14**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**55**	Parameter: **BLUE 14**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**56**	Parameter: **WHITE 14**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**57**	Parameter: **RED 15**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**58**	Parameter: **GREEN 15**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**59**	Parameter: **BLUE 15**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**60**	Parameter: **WHITE 15**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**61**	Parameter: **RED 16**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**62**	Parameter: **GREEN 16**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**63**	Parameter: **BLUE 16**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	**64**	Parameter: **WHITE 16**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

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	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					**Strobe (3,27 s - 30 ms)**
120-149					**Pulse up (42,6 s - 120 ms)**
150-179					**Pulse down (42,6 s - 120 ms)**
180-204	**192**				**Random Strobe (Master and RGBW active)**
205-229	**218**				**Full Independent Random Strobe**
230-234	**232**				**Colors sequence RED YELLOW CYAN BLUE**
235-255	**245**				**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: **GREEN**

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

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: **WHITE**

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

DMX CHANNEL	7	Parameter: **WHITE PRE-PROGRAMMED**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-55	**23**				**No Function**
56-105	**80**				**Full (RGBW at Full)**
106-155	**130**				**DTS White**

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

156-205	**180**	**Custom White Recall**
206-255	**225**	**White CTC (Channel 8 CTC enabled Color Temperature Correction Macros**

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

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

DMX CHANNEL	8	Parameter: **CTC**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function

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

0-255	**Color Temperature Correction Macros**

IF CHANNEL 7 (WHITE PRE-PROGRAMMED) = NO FUNCTION (Dmx range value 0 - 43)

0-255	**Smooth RGBW linear Hue correction**

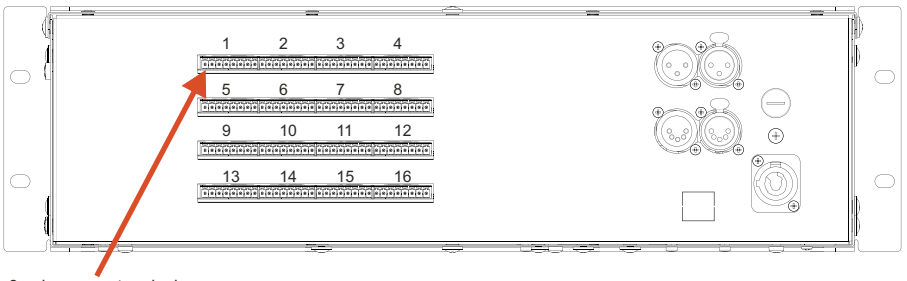
DMX CHANNEL	9	Parameter: **MACRO**

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					**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	10	Parameter: **FUNCTION (Recall, Create and Store the Custom white)**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-79		**Custom White Recall (Enable CH 7 for Custom white Recall)**			
80-160		**Custom White Create (Enable CH 7 for Custom white Creation)**			
161-255		**Custom White Store (Store the Custom White created)**			

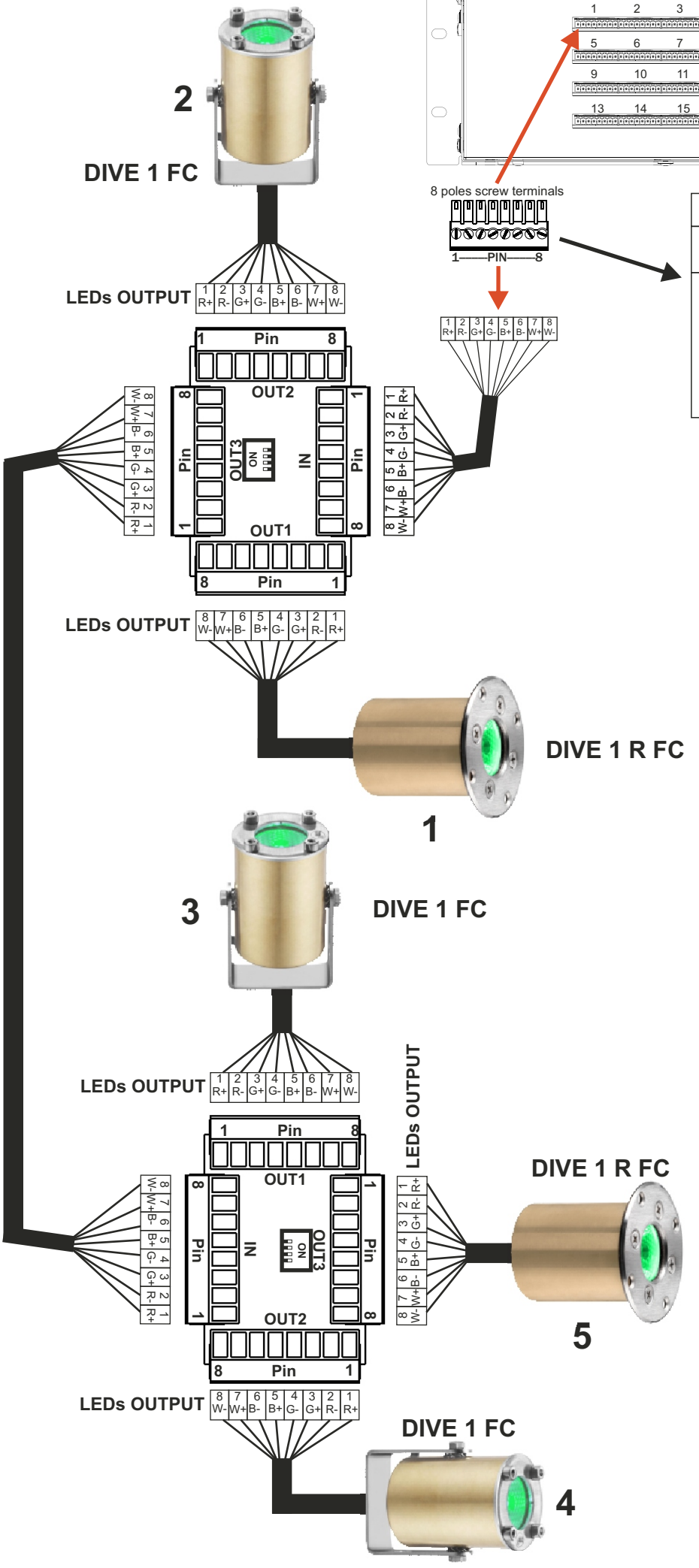
CONNECTION DIAGRAM

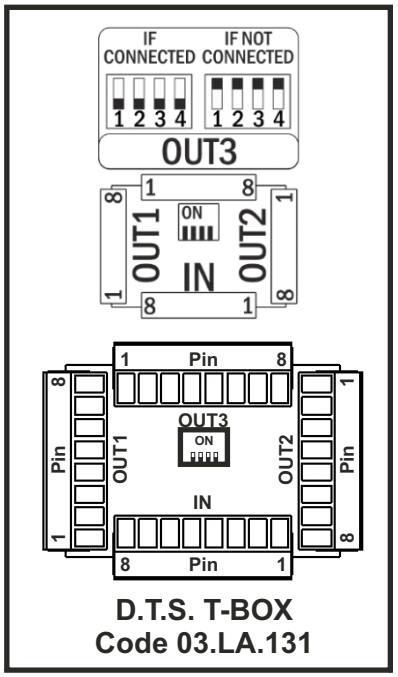


8 poles screw terminals

1——PIN——8

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





D.T.S. T-BOX
Code 03.LA.131

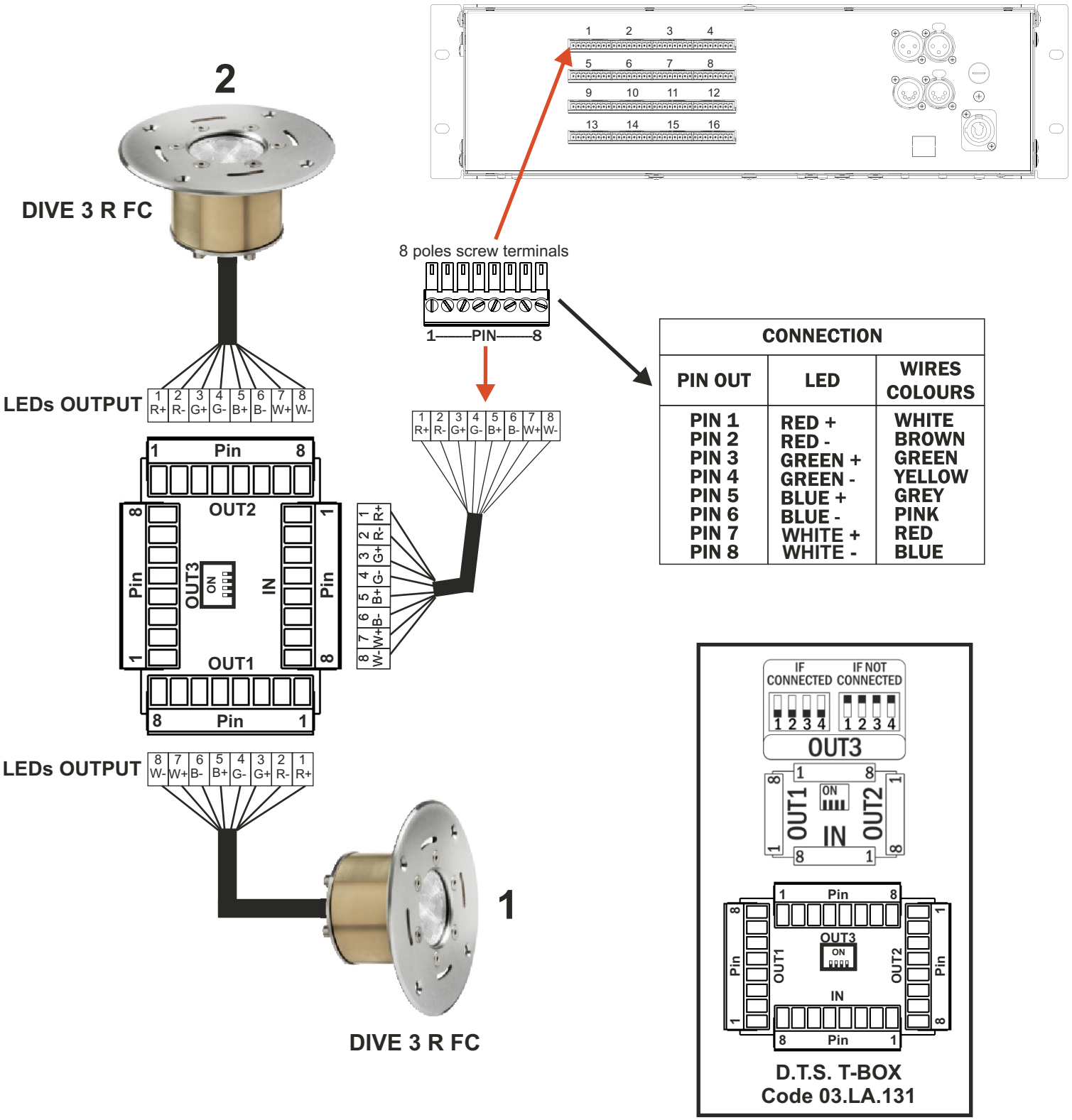
The maximum number of DIVE 1 and DIVE 1 R FC connectable to the each output of DRIVENET 1664 24Vdc LED Controller is 6 pcs.

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

Never plug in a new DIVE projector when the power supply is turned on.

The maximum distance between the power supply and the unit should not exceed 100 meters.

CONNECTION DIAGRAM



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

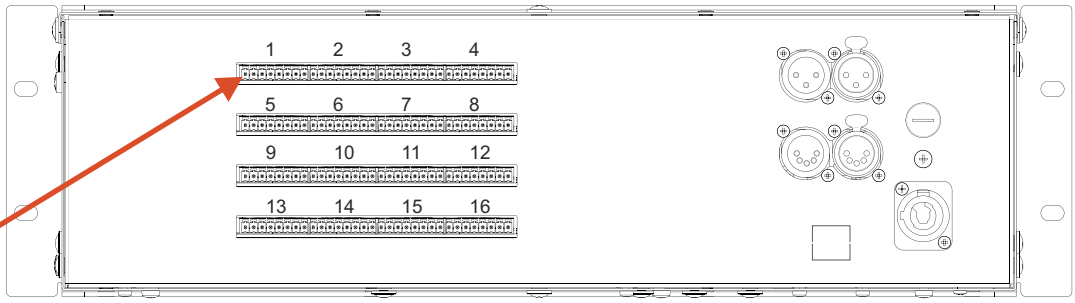
The maximum number of DIVE 3 FC and DIVE 3 R FC connectable to the each output of DRIVENET 1664 24Vdc LED Controller is 2 pcs.

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

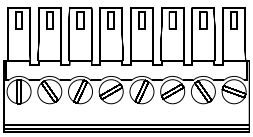
Never plug in a new DIVE projector when the power supply is turned on.

The maximum distance between the power supply and the unit should not exceed 100 meters.

CONNECTION DIAGRAM



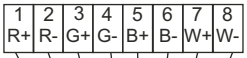
8 poles screw terminals



1——PIN——8

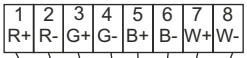
CONNECTION		
PIN OUT	LED	WIRES COLOURS
PIN 1	RED +	WHITE
PIN 2	RED -	BROWN
PIN 3	GREEN +	GREEN
PIN 4	GREEN -	YELLOW
PIN 5	BLUE +	GREY
PIN 6	BLUE -	PINK
PIN 7	WHITE +	RED
PIN 8	WHITE -	BLUE

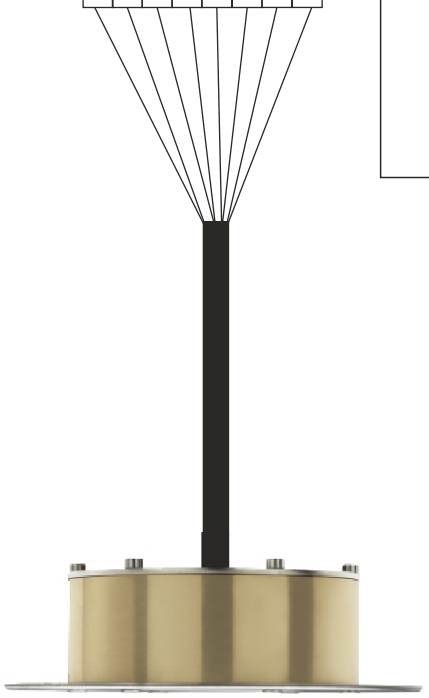
LEDs output



DIVE 6 FC

LEDs output





DIVE 6 R FC

The maximum number of DIVE 6 FC or DIVE 6 R FC unit connectable to each output of the DRIVENET 1664 24Vdc is 1 piece.

Never plug in a new DIVE projector when the power supply is turned on.

The maximum distance between the power supply and the unit should not exceed 100 meters.

NOTES

NOTES

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

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