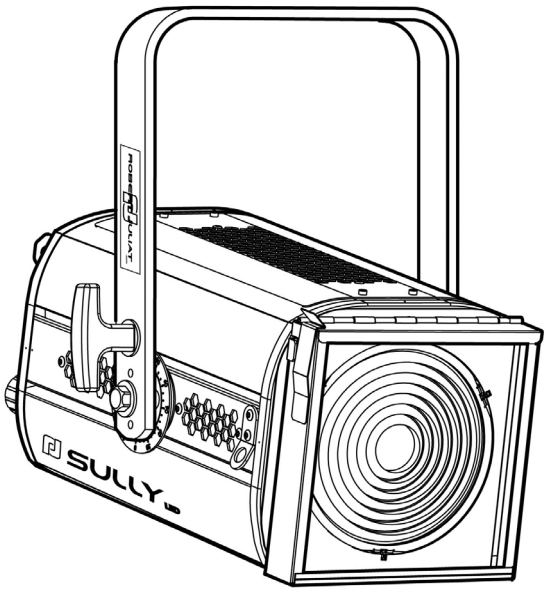
SULLY 305L

LED SINGLE LENS LUMINAIRE

Manual



115 W LED

Type	Standard	North American
Fresnel	305LF	305CLF
Pebble Convex	305LPB	305CLPB

V1

- FIRMWARE: **V4**.0
- RJ-LED2 FIRMWARE PLATFORM (Node Mode) full manual is available for download at robertjuliat.com/LED/PDF_PAGE

VALIDATION : 12/06/24

ROBERT JULIAT

DN41202101 (EN)

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www.robertjuliat.com

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Robert Juliat reserve the right to change or alter any of the items detailed on this page,
to increase or improve manufacturing techniques without prior notice.

1 User's instructions

EN

GENERAL INSTRUCTIONS

1. Not for residential use.
2. These fixtures must only be serviced by a qualified technician.
3. In addition to the instructions indicated on this page, relevant health and safety requirements of the appropriate EU Directives must be adhered to at all times.
4. This fixture is in compliance with section 17 - Lighting appliance for theatre stages, television, cinema and photograph studios. Standards NF EN 60598-1, NF EN 60598-2-17, Low Voltage Directive 2014/35/UE & EMC Directive 2014/30/UE.
5. This fixture is rated as IP20, and is for indoor use only.

FIXTURE

6. Ensure fixture is correctly mounted on an appropriate support.
7. Protection screens and lenses must be replaced in the event of any damage, such as cracks or deep scratches, since these might reduce performance.
8. When hung or flown the fixture must be secured by an additional hanging accessory (such as a safety cable or bond) of suitable length.
9. Safety bonds or cables must be securely attached to the back of the fixture and be as short as possible, or rolled up as necessary, to minimise travel distance should the fixture be dislodged.
10. Movable accessories (scroller, etc.) must also be secured with a suitable safety cable or bond at the front of the fixture.
11. The combined weight of both the fixture and the accessories must be considered when choosing the load-bearing capability of safety cable or bond.
12. Do not open lighting fixture when the source is on.
13. WARNING: LED source become hot during use. Allow fixture to cool before servicing.
14. Do not tamper with design of fixture nor any of its safety features.
15. Tighten electrical mains cable connections regularly and replace with one of identical specification if damaged.
16. Use only with correct power supply.

VENTILATION

17. Keep well away from flammable material.
18. Not for outdoor use. Do not cover. Do not permit fixture to get wet.
19. To avoid overheating, do not obstruct air vents.
20. Ensure any cooling fans are in correct working order. If fans are not working, turn fixture off immediately and service as necessary.

CLEANING

21. Do not touch the LED source with your fingers.
22. To clean the optical parts, use a soft cloth in combination with distilled water or isopropyl alcohol recommended for coated optics. Do not use any cleaning product that contains solvents or abrasives, as these can cause surface damage. Dry with a soft lint-free cloth.
23. Regularly remove dust with a soft lint-free cloth.
24. If the fixture has filters, they must be cleaned frequently.

POWER SUPPLY

25. Disconnect from the mains before servicing.
26. Mains connection only. Do not connect to "electronic output" such as dimmer.
27. Ensure power supply circuit breakers, always remain accessible.

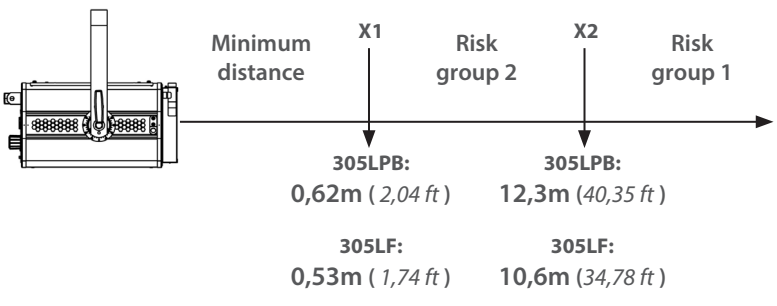
PLEASE NOTE

This product has been built to conform to European standards relating to professional lighting equipment.
Any modification made to our products will void the manufacturers' warranty.

Photobiological safety according to EN62471

Risk group 2

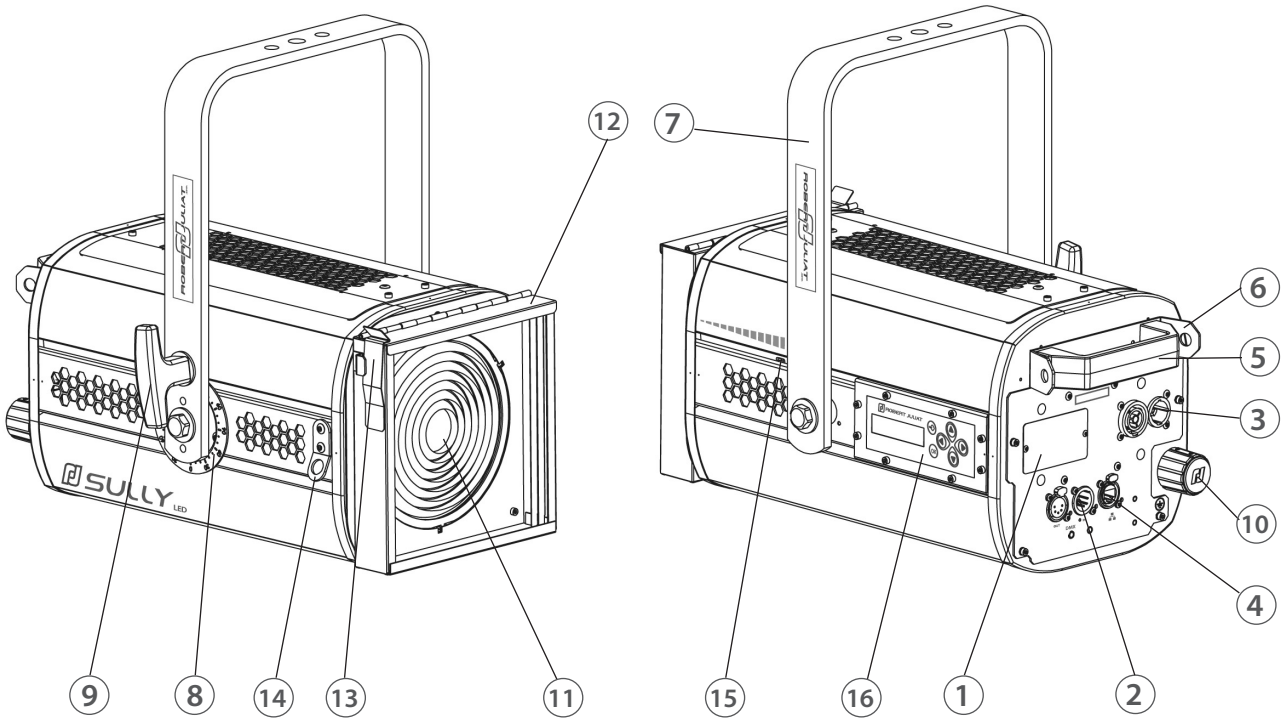
CAUTION: Possibly hazardous optical radiation emitted from this product. Do not stare at operating lamp. Maybe harmful to the eye.



Risk group 2. Luminaires should be positioned so that prolonged staring into luminaire at a distance closer than 12.3m for the 305LPB and 10.6m for the 305LF is not expected.

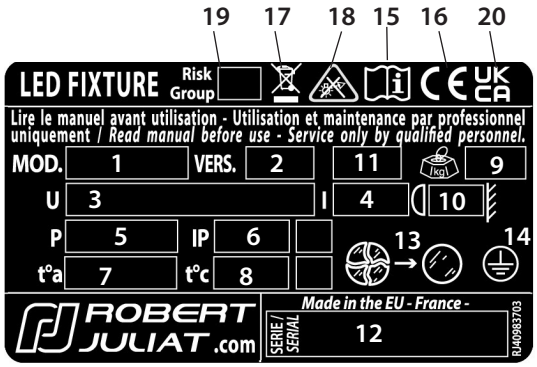
2 Presentation

2.1 Functions

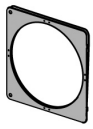


Description	
1. Identification plates 2. Data connector (IN and OUT) 3. Power connector (IN and OUT) 4. RJ45 network connector 5. Handle 6. Safety cable attachment point 7. Hanging yoke 8. Tilt index 9. Tilt locking handle 10. Focus adjustment	11. Lens (Fresnel or Pebble) 12. Accessories and colour filter holders 13. Accessories and colour filter holders locking system 14. Front accessories safety cable attachment point 15. Focus index 16. Local display and controls (option)

2.2 Identification label

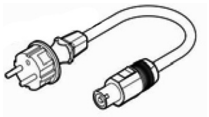
Description	
 ***Units :*** *- Weight = kilogram (kg).* *- Intensity = Ampere (A).* *- Voltage = Volt (V).* *- Frequency = Hertz (Hz).* *- Temperature = degree Celsius (°C).*	1. MOD. : Model 2. VERS. : Version 3. U : Nominal voltage input (V) 4. I : Nominal intensity (A) 5. P : Maximum power input (W) 6. IP : International Protection Rating 7. t°a : Maximum ambient temperature (°C) 8. t°c : Maximum external temperature of the unit (°C) 9. Net weight (kg) 10. Minimum distance between a flammable material and the lighting unit (m) 11. Colour temperature version 12. Serial number 13. Replace broken glass 14. Class 1 product label 15. Read manual first label 16. European conformity label 17. WEEE directive label 18. CEI-TR-62778 - Do not stare at light source 19. EN62471 - Risk group 20. UKCA (UK Conformity Assessed) label

2.3 Accessories included

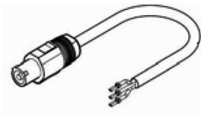


①

②



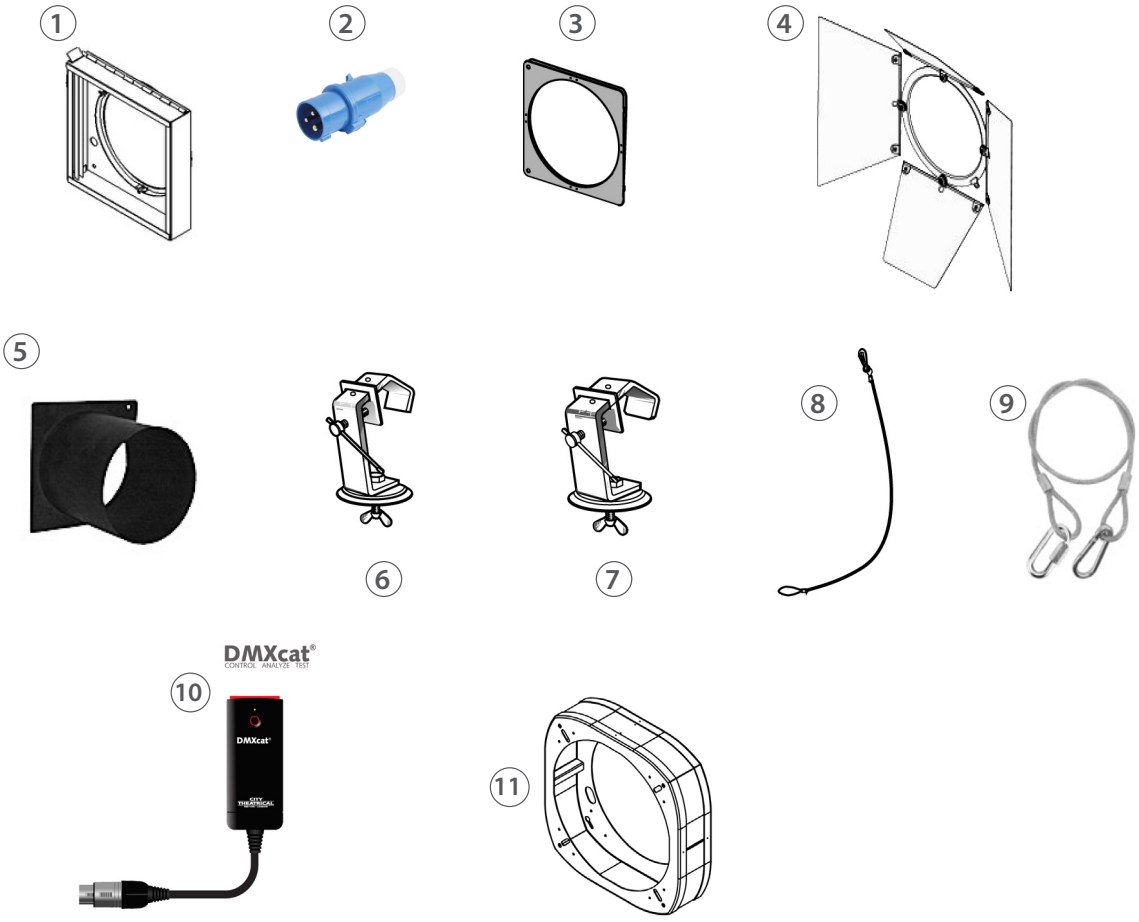
③



④

	Reference	Description
1	PF500M2	180 x 180 mm (7.1 x 7.1 in) metal filter holder
2	DN41202200	Quick Start manual
3	CAL03	3 meter power cable (3G1,5 HO7RNF) with Neutrik PowerCon© True1 TOP and CEE 7/7 (2P+T NF/SCHUKO) connectors (standard version)
4	CAL04	1,50m power cable UL/CSA with Neutrik PowerCon© True1 TOP connector (North American version)

2.4 Accessories

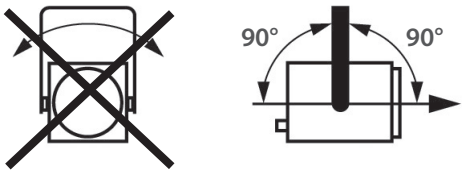


	Reference	Description
1	L150 F/2	Ø150 mm Fresnel lens with double slot front cassette for 180x180 mm accessories - weight: 0.8 Kg
	L150 PB/2	Ø150 mm Pebble convex lens with double slot front cassette for 180x180 mm accessories - weight: 1.25 Kg
2	PCP1716A	16A blue 2P+E 6h IEC60309 power connector
3	PF500M2	180 x 180 mm metal filter holder
4	CF500	4 rotating leaves on a rotating barndoor - 180x180 mm (without safety cable) - weight: 0.82 Kg
5	TH600	180 x 180 mm "Top hat" (without safety cable)
6	876	40 x 10 mm hook clamp with 28 mm screw for Ø35 to Ø50 mm
7	880	40 x 10 mm hook clamp with 28 mm screw for Ø50 to Ø63 mm
8	CS2	Safety cable Ø3 mm (length = 600 mm)
9	CS5	Safety cable Ø1,5 mm (length = 300 mm) for front accessory with karabiner and quick link
10	DMXcat	Bluetooth DMX/RDM Multifunction test tool - City Theatrical DMXcat®
11	ROPT1	Narrow beam extender for 305LPB

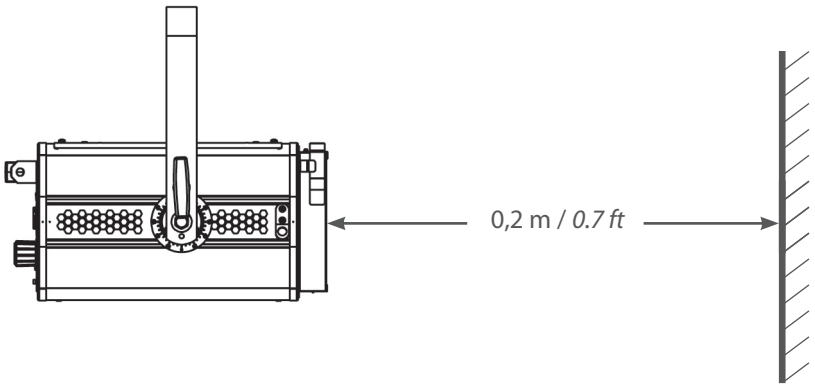
3 Set-up

3.1 Mechanics

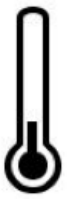
3.1.1 Operating positions



3.1.2 Minimum distance between a flammable material and the lighting unit



3.1.3 Instructions for use



Minimum : 5°C / 40°F

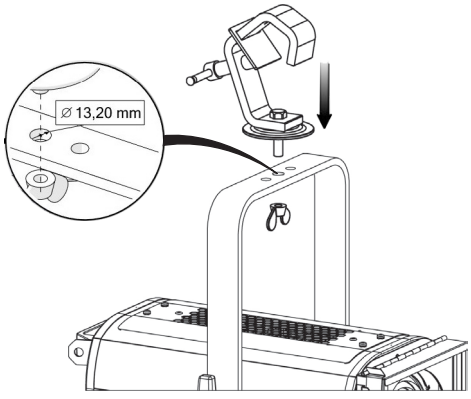
Maximum : 40°C / 104°F

IP20 - Indoor use only

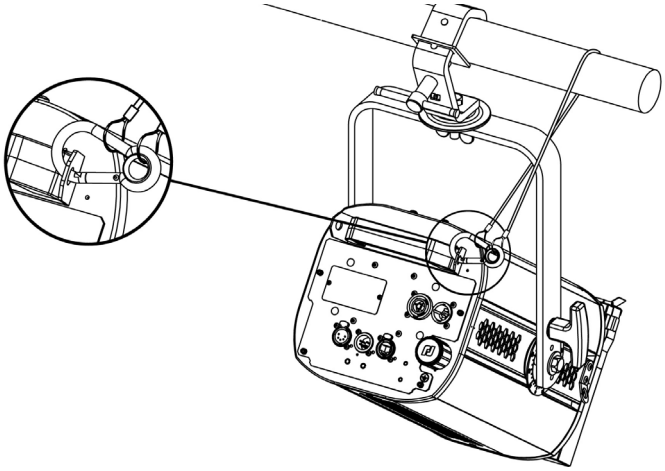
3.1.4 Hanging

• Ensure fixture is correctly mounted on an appropriate support

Net weight:
Fresnel: 8.5 kg (*18.7 lbs*)
Pebble: 8.8 kg (*19.4 lbs*)



3.1.5 Safety cable



• When hung or flown the fixture must be secured by an additional hanging accessory (such as a safety bond or cable) of suitable length.

• The combined weight of both the fixture and the accessories must be considered when choosing the load-bearing capability of safety cable or bond.

• Safety cables or bonds must be securely attached to the back of the fixture and be as short as possible, or rolled up as necessary, to minimise travel distance should the fixture be dislodged.

3.2 Electrical information

3.2.1 LED source

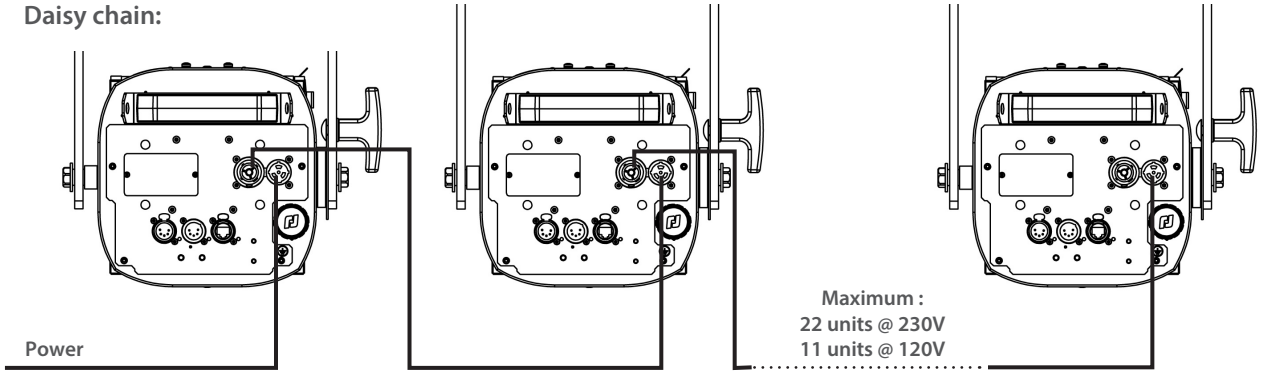
Never touch or scratch the LED surface.
***See 6.1.4* LED cleaning procedure if cleaning is necessary.**

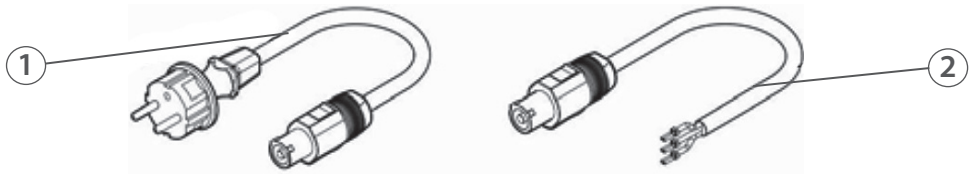
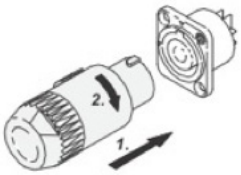
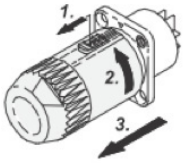
3.2.2 Power supply

Power supply			
Voltage	**Frequency**	**Input power**	**Connectors**
100 ➡ 264 V	50-60 Hz	0,7 A / 130 W @ 230V 1,15 A / 135 W @ 120V 1,40 A / 135 W @ 100V Max: 1,5A Standby mode: 10W	Neutrik powerCON TRUE1 TOP Input : ref. NAC3FPX-TOP

- Class 1 product. **This luminaire must be earthed.**
- Must be connected directly to AC power. **Do not connect to dimmer power.**
- Automatic mains voltage detection.

Daisy chain:

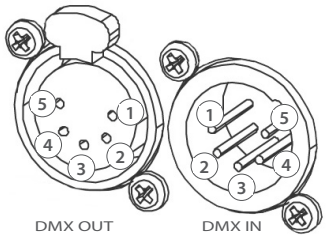


Power cable						
						
Power cable		**Connector**	**Mains plug**	**Cable type**	**Cable length**	**Wiring**
1	Standard version	Neutrik® powerCON TRUE1 TOP NAC3FX-W-TOP	CEE7/7	3G1.5 H07RNF	3 m 9.8 ft	Live: Brown Neutral: Blue Ground: Yellow/Green
2	North American version		-	14AWG SJ TYPE (UL/CSA)	1.5 m 4.9 ft	Live: Black Neutral: White Ground: Green
In  Out 						

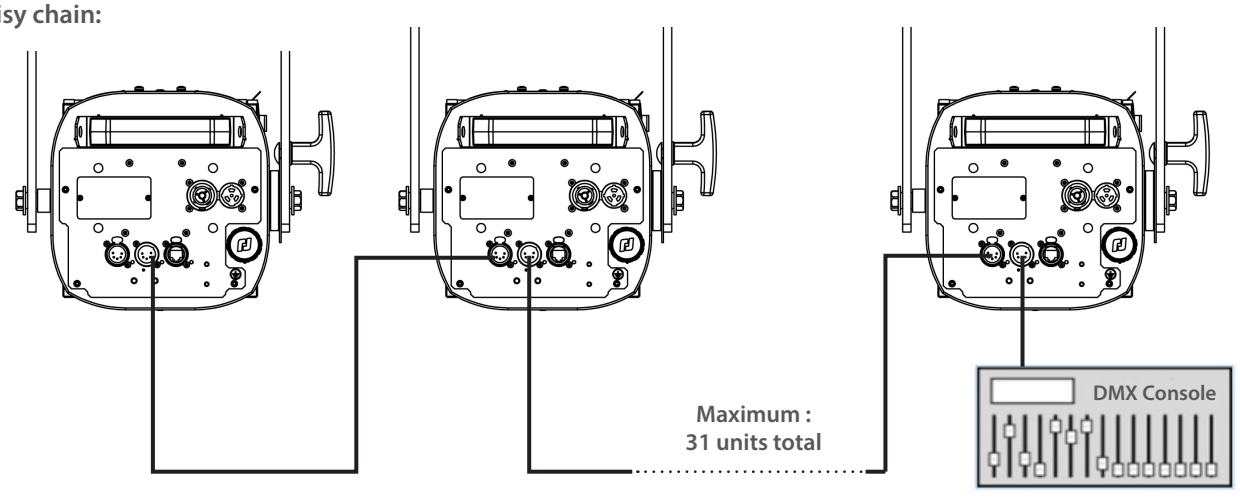
3.3 DATA

3.3.1 DMX 512-A / RDM

Protocol	Input connector	Output connector
USITT DMX 512-A RDM	XLR 5-pin	XLR 5-pin

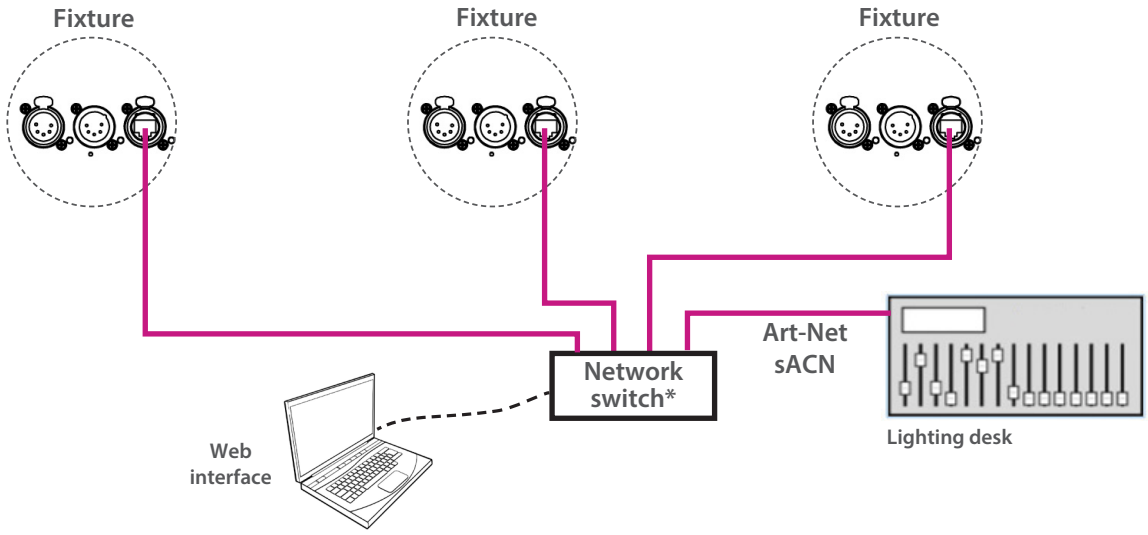
DATA connectors			
PIN #	**DMX**	**Description**	
1	Shielding	Foil & Braided Shield	
2	DMX (-)	1st conductor of 1st twisted pair	
3	DMX (+)	2nd conductor of 1st twisted pair	
4	Not used	1st conductor of 2nd twisted pair	
5	Not used	2nd conductor of 2nd twisted pair	

Daisy chain:



3.3.2 Art-Net / sACN

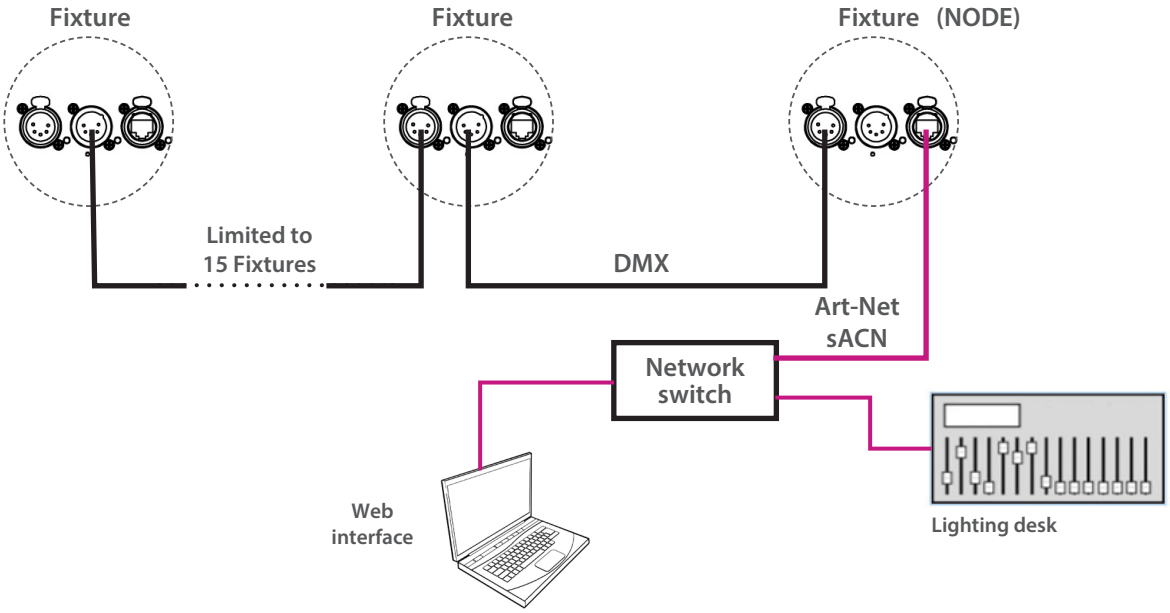
Protocol	Input connector	Output connector
Art-Net (V3 & V4) sACN DUAL (SACN + Art-Net)	RJ45	-



(*) A 1000 base-T switch that supports IGMP (Internet Group Management Protocol) is necessary if the unit is connected to a network switch to control multiple devices. The usage of non IGMP switch capability can cause erratic behavior of all connected devices.
For further reading: https://en.wikipedia.org/wiki/Internet_Group_Management_Protocol

3.3.3 Ethernet / DMX node

Protocol	Input connector	Output connector
Art-Net (V3 & V4) sACN DUAL (SACN + Art-Net)	RJ45	DMX



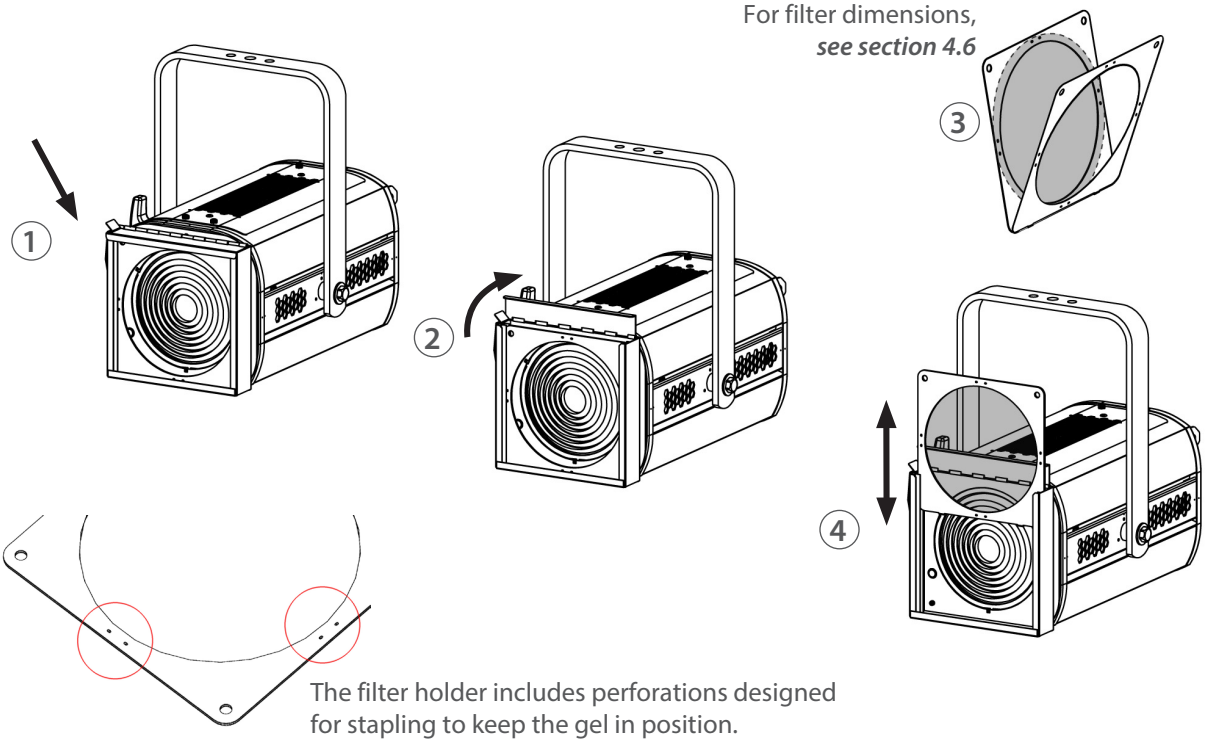
- **Node** function must be activated only on the first unit of the daisy chain (see **Web Interface** section of the manual).
- **Web interface** is always available regardless of the protocol (Art-Net / sACN) selected.

RJ-LED2 FIRMWARE PLATFORM (Node Mode) full manual is available for download at robertjuliat.com/LED/PDF_PAGE

3.4 Accessories

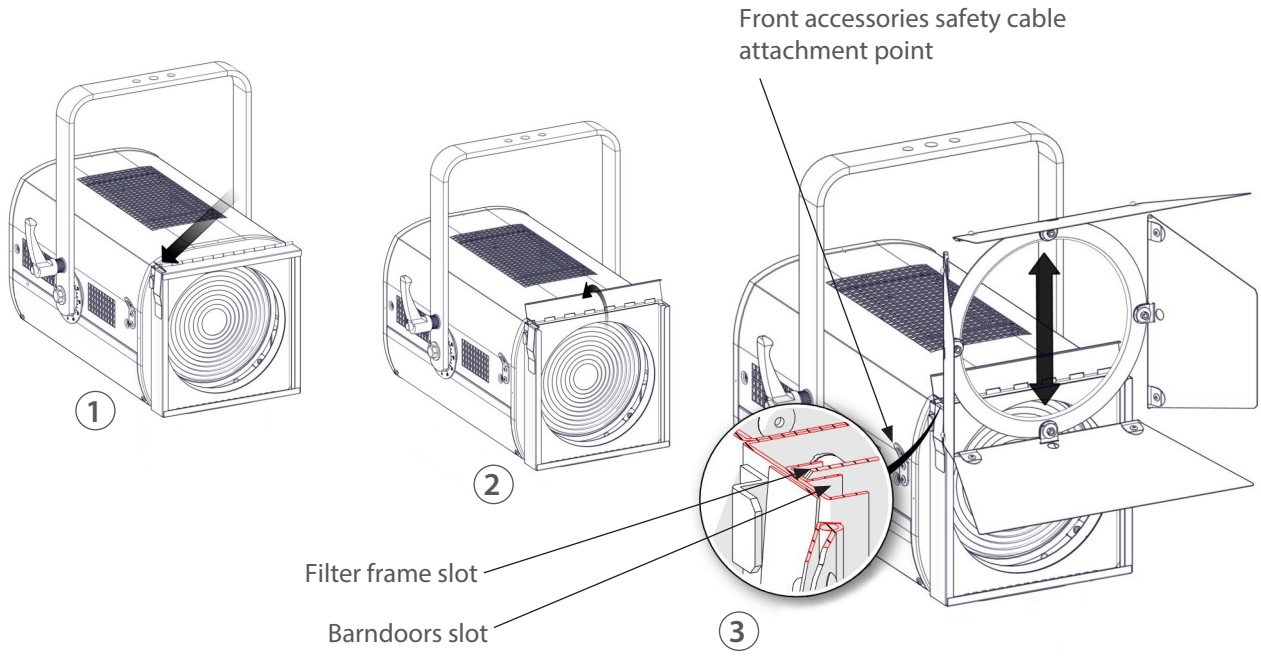
3.4.1 Front filter holder

For filter dimensions,
see section 4.6

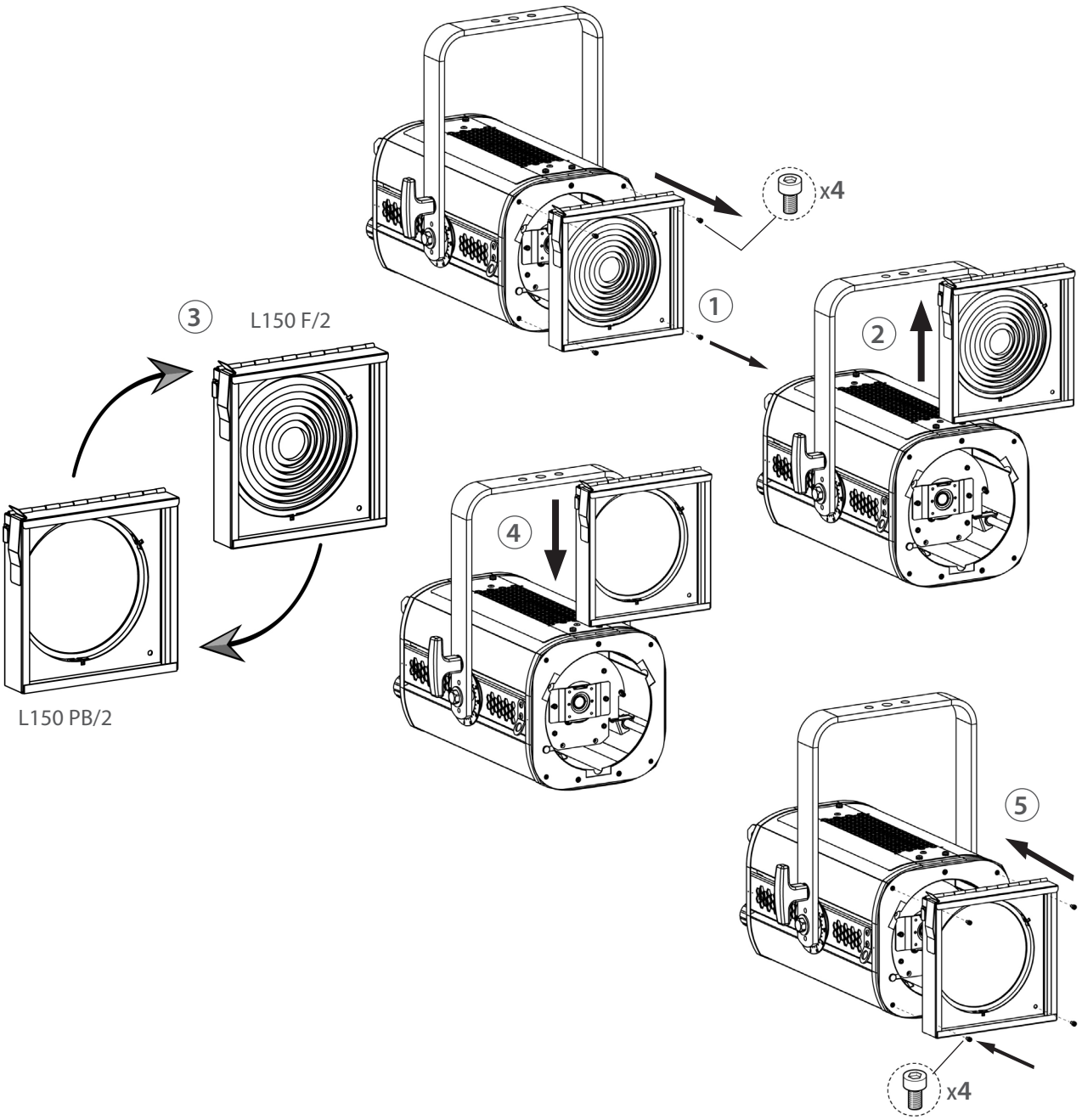


The filter holder includes perforations designed for stapling to keep the gel in position.

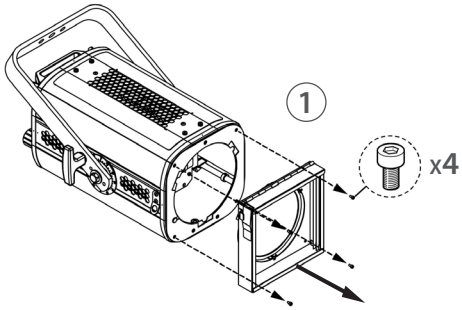
3.4.2 Barndoors

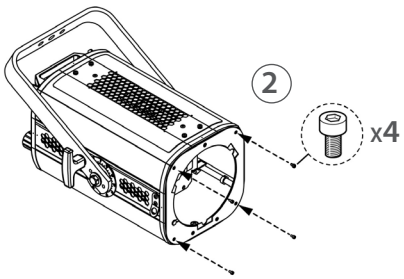


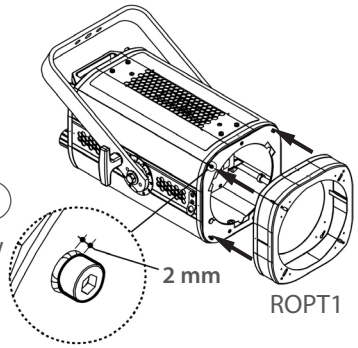
3.4.3 Changing lens

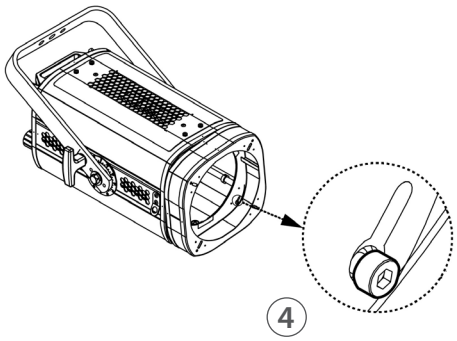


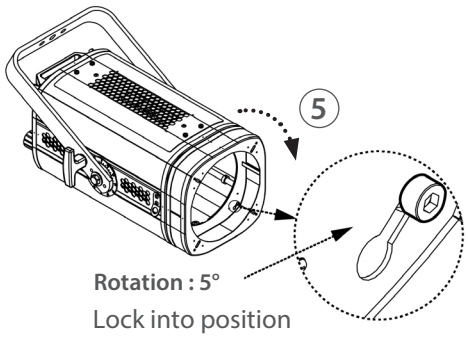
3.4.4 Narrow beam extender for 305LPB

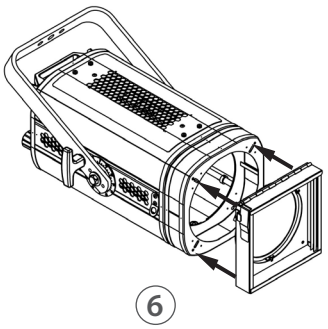


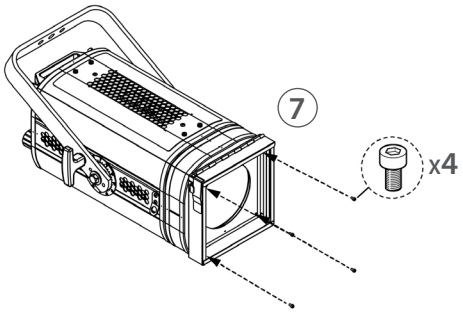


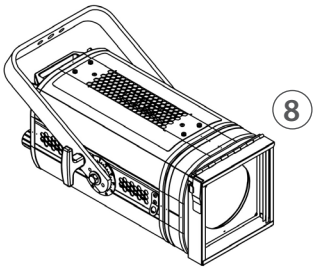








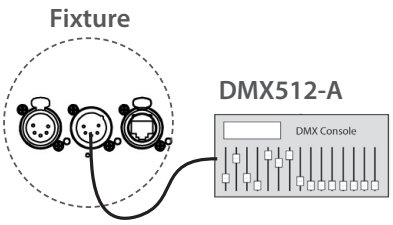




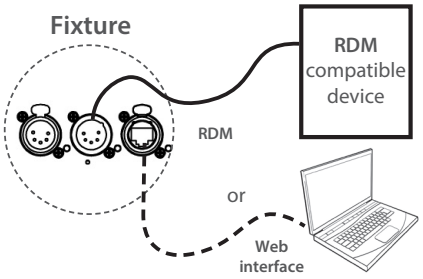
4.1 Light intensity

4.1.1 Range

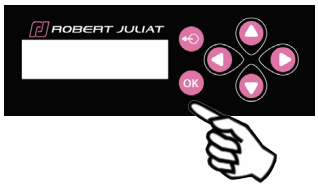
4.1.2 Control



Remotely with DMX512-A / Art-Net / sACN protocols.



➡ Set through RDM protocol or web interface



Locally, when equipped with this option

HTP mode (Highest Takes Precedence): Light output is the highest value of DMX512 command or local control
Focus mode: when standby screen displayed, Push Exit for 3 secs → Light output = 100% for 1 minute 2x times Exit → Light output = 0%

4.1.3 Parameters

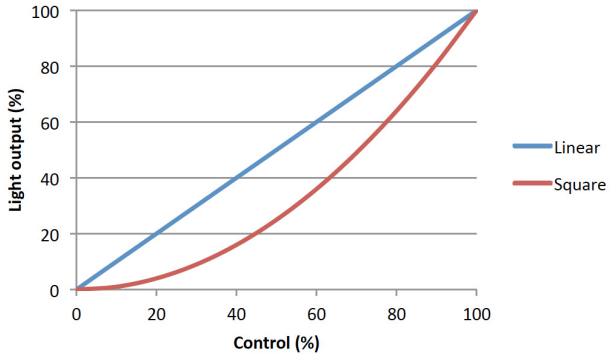
4.1.3.1 Dimming resolution - DMX only

➡ Set through RDM protocol, web interface or local control (option)

Resolution	DMX mode
8 bits – 255 steps	1 - 3
16 bits – 65 535 steps	2 - 4

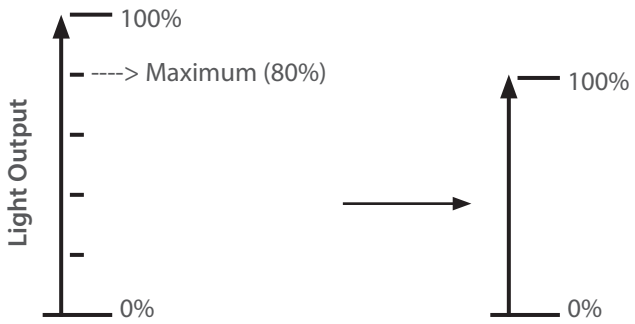
4.1.3.2 Dimming curve

➡ Set through RDM protocol, web interface or local control (option)



4.1.3.3 Set maximum position

➡ Set through RDM protocol, web interface or local control (option)



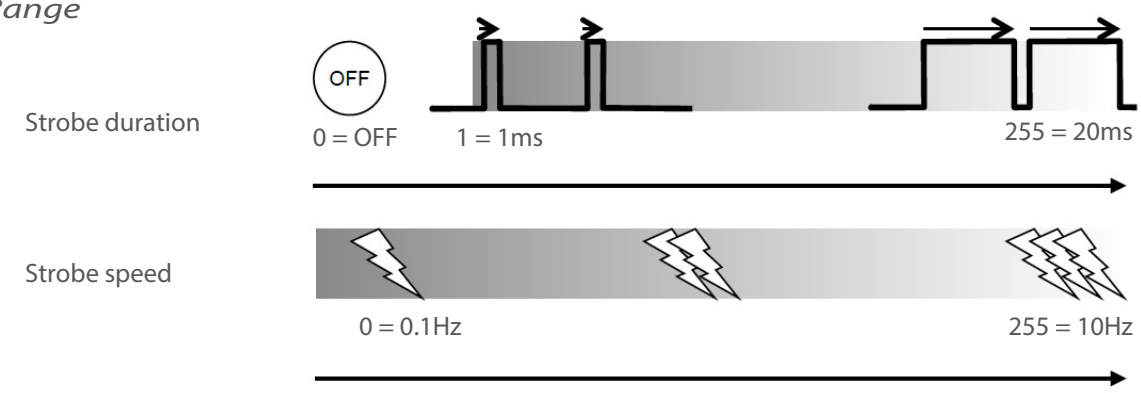
4.1.3.4 Dimming mode

➡ Set through RDM protocol, web interface or local control (option)

Mode	Result
Without PWM	Flicker-Free, perfect for filming
PWM 17 kHz	Good dimming quality (Default Value)
PWM 3,2 kHz	Very good dimming

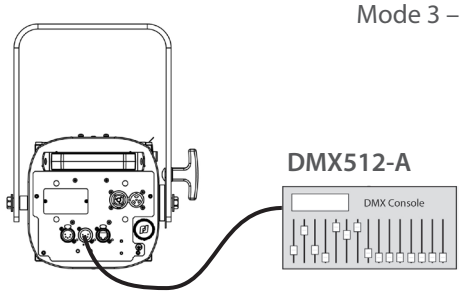
4.2 Strobe

4.2.1 Range



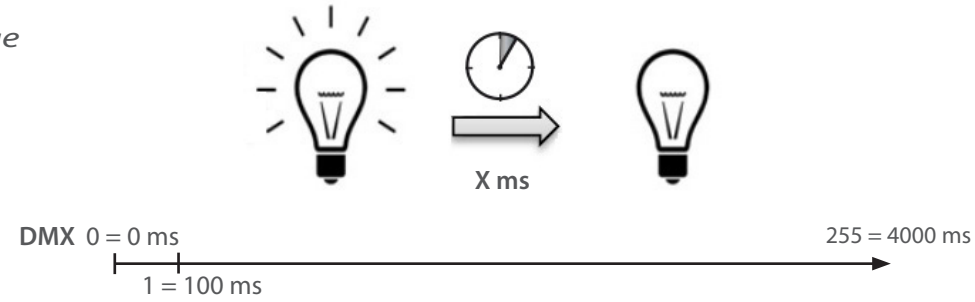
4.2.2 Control

➡ Remotely with DMX512-A / Art-Net / sACN protocols / local control (option)
Mode 3 – 4

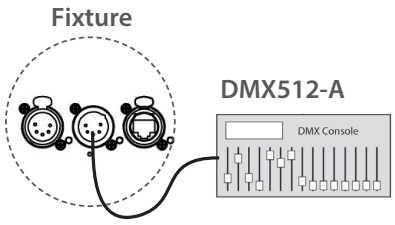


4.3 Response time

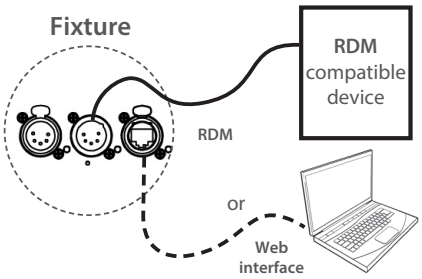
4.3.1 Range



4.3.2 Control



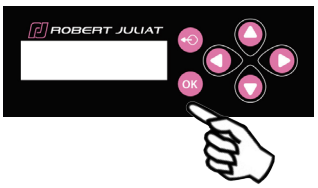
Remotely, with
DMX512-A / Art-Net / sACN protocols
Mode 3 – 4 only



➡ Set through RDM protocol or web interface

Mode	Speed
NONE	OFF
SLOW	700 ms
MEDIUM	470 ms
FAST	350 ms
CUSTOM	0 - 4000 ms

Locally, when equipped with this option

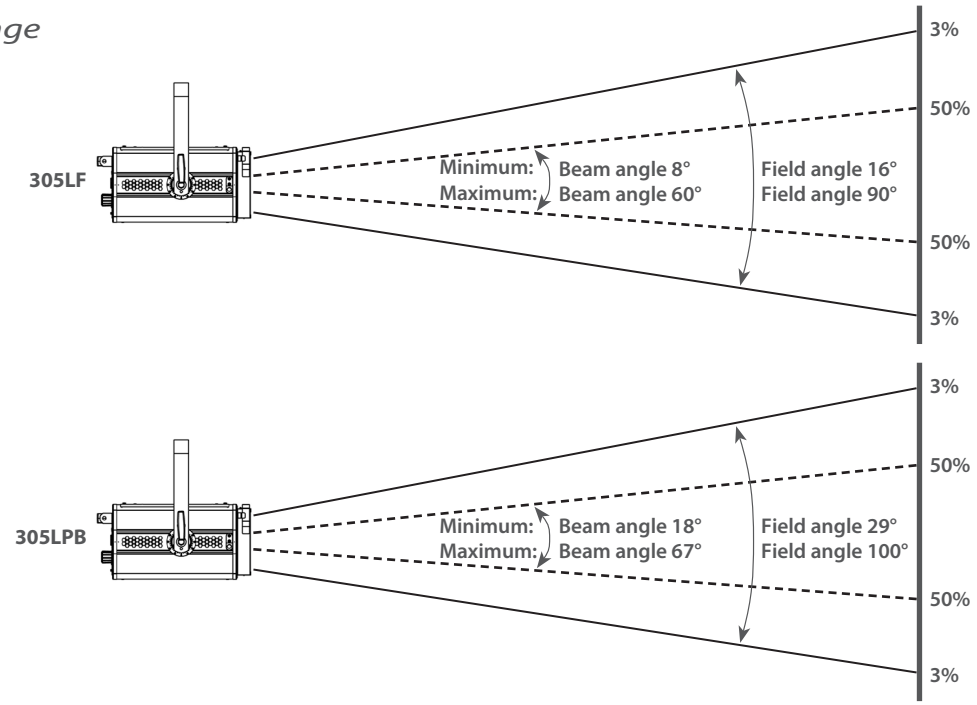


Only when no DMX detected :
➡ selection in SETUP/DIMMER/ **RESPONSE TIME**

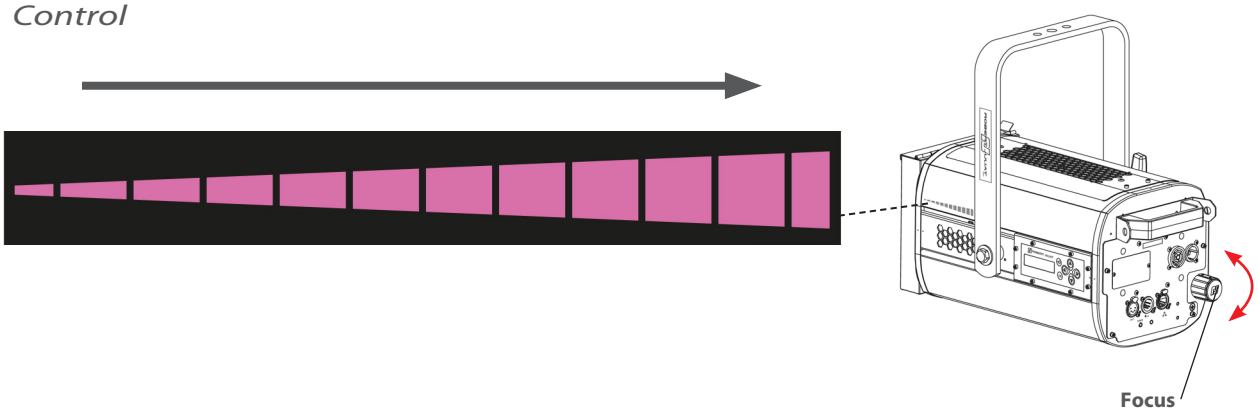
Mode	Speed
NONE	OFF
SLOW	700 ms
MEDIUM	470 ms
FAST	350 ms
CUSTOM	0 - 4000 ms

4.4 Beam size adjustment

4.4.1 Range

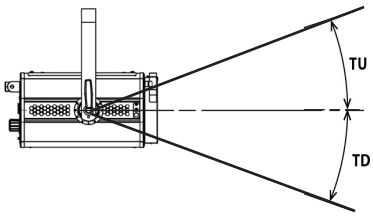


4.4.2 Control

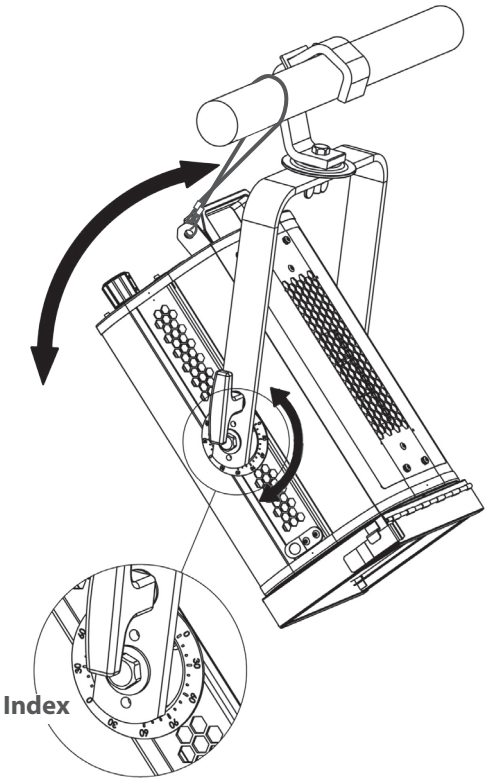


4.5 Orientation

4.5.1 Range

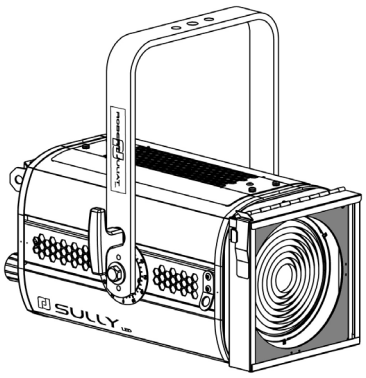
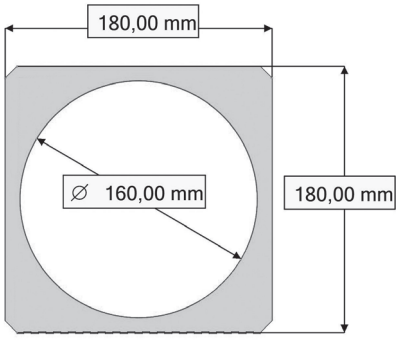
Function	Range
PAN	0 ➡ 360°
TILT 	TU = 0 ➡ 90° TD = 0 ➡ 90°

4.5.2 Control



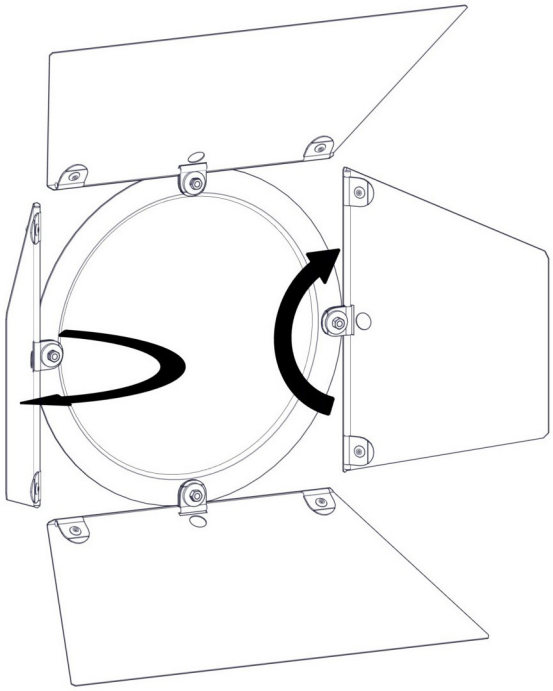
4.6 Colour

Fixed colour

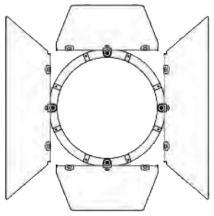
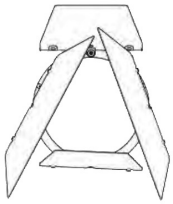
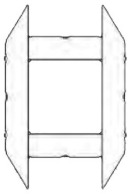
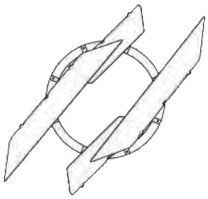
Location	
	Front filter holder
Type	Standard coloured gel filter
Dimensions	
Installation	*See 3.4.1*

4.7 Beam shaping

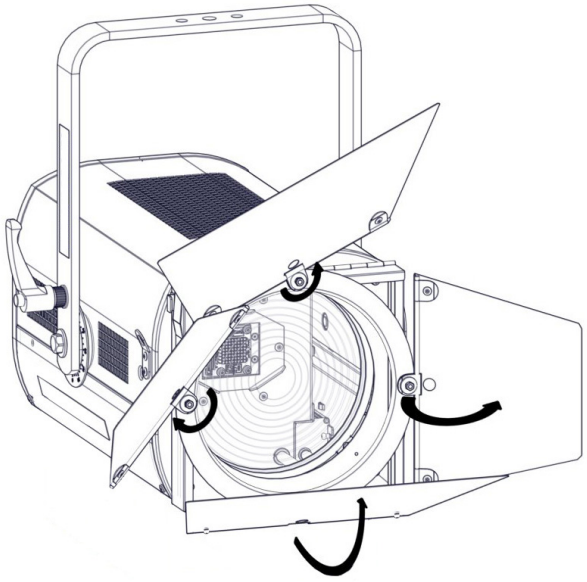
4.7.1 Range



Examples:

			
Open	Triangle	Square	Line

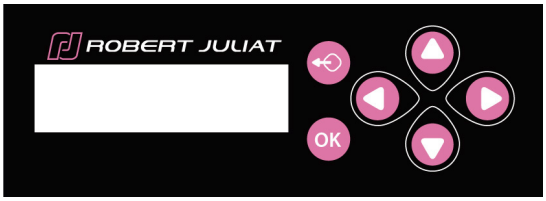
4.7.2 Control

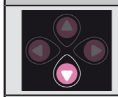


EN

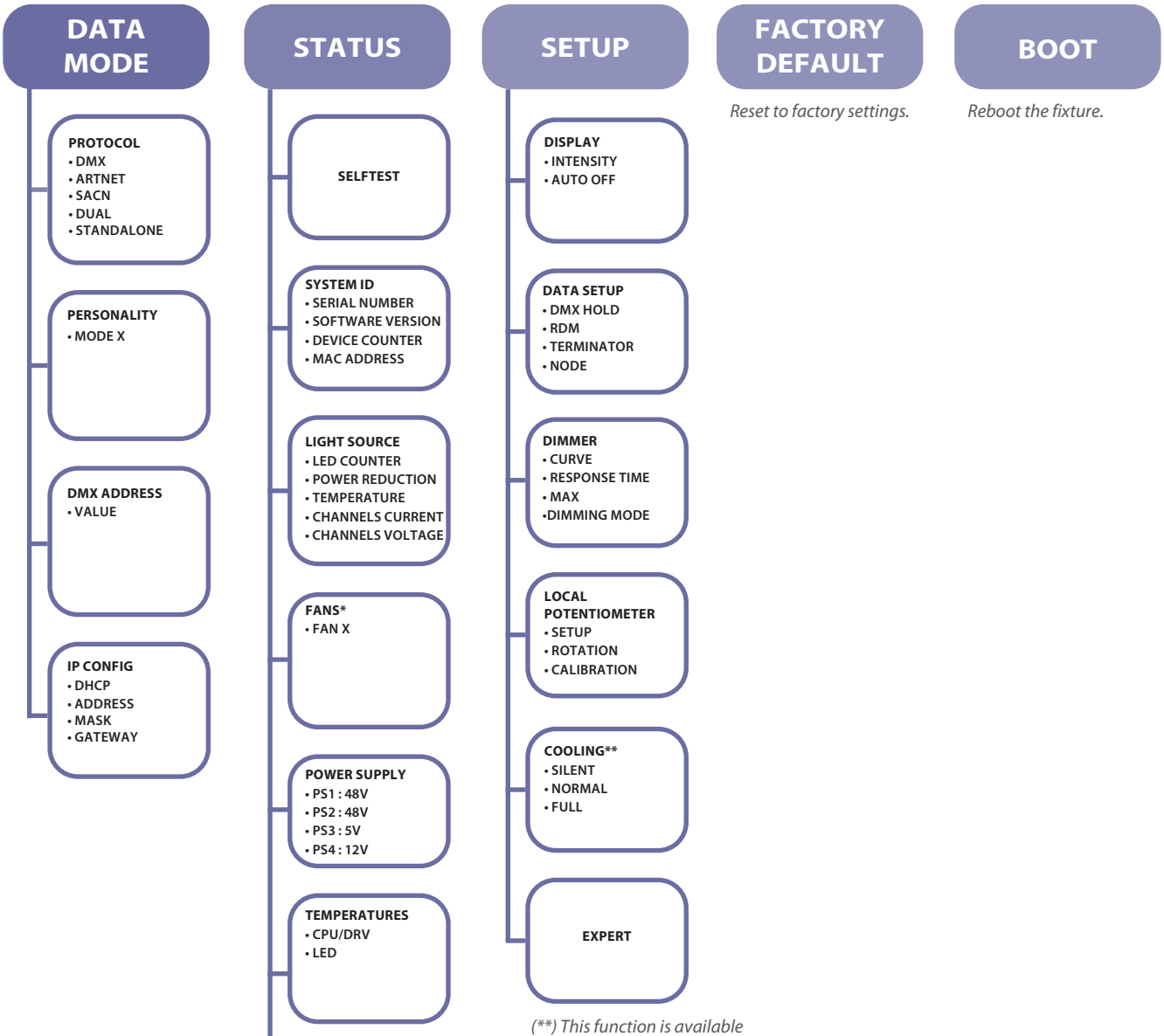
5.1 Local display and controls*

5.1.1 Display



Function	
	Exit the current menu option and/or go back
	Enter the current menu option and/or valid
	Scroll through menus and/or Increase data value
	Scroll through menus and/or Decrease data value
	Menu down and/or Increase data value
	Menu up and/or Decrease data value

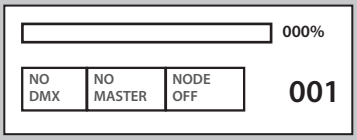
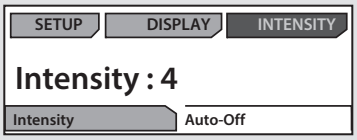
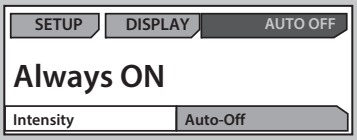
(*) If option available



(*) The number of fans may vary depending on the fixture.

(**) This function is available only when the fixture has acces to this setup mode.

→ Selection in *SETUP/DISPLAY MODE* menu

Display	Mode	Description
	Always ON	Main display (home screen) always ON
	Intensity	Adjust the intensity of the screen *To change value, press buttons* :   press OK to validate
	Auto-OFF	Main display OFF after 20 seconds

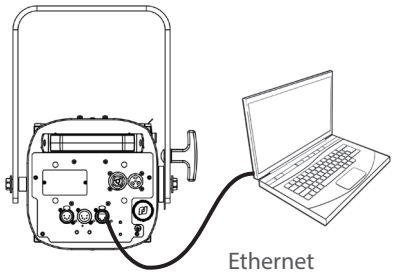
5.2 DMX512 - A remote control

5.2.1 Protocol

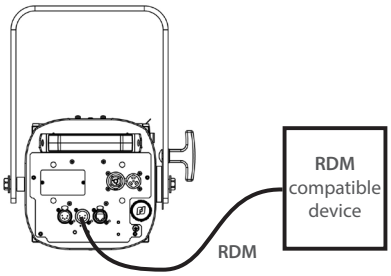
E1.11 – 2008, USITT DMX512-A

5.2.2 Configuration

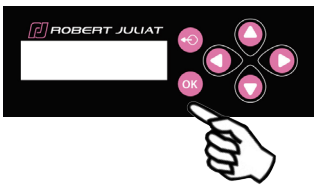
Set mode through web interface



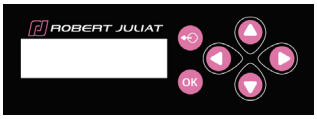
Set mode through RDM protocol

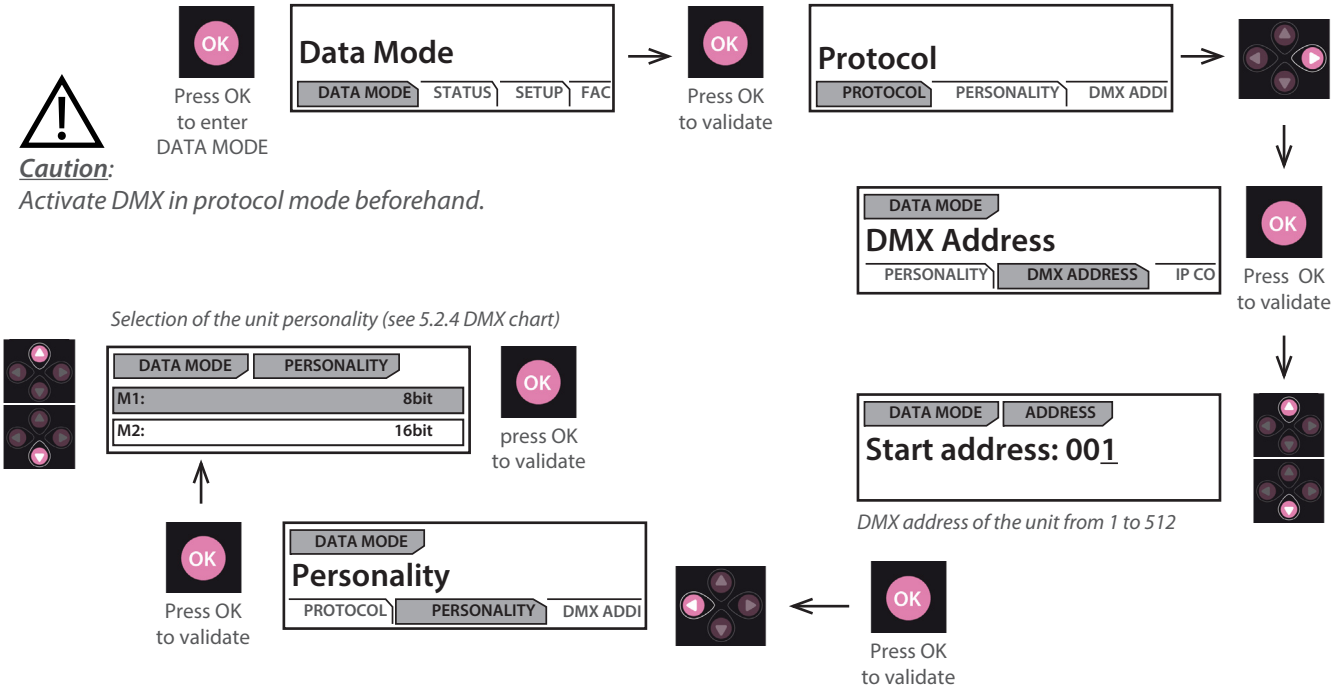


Locally, when equipped with this option



1 - Set DMX address
2 - Set personality mode (***see 5.2.4.* DMX chart**)



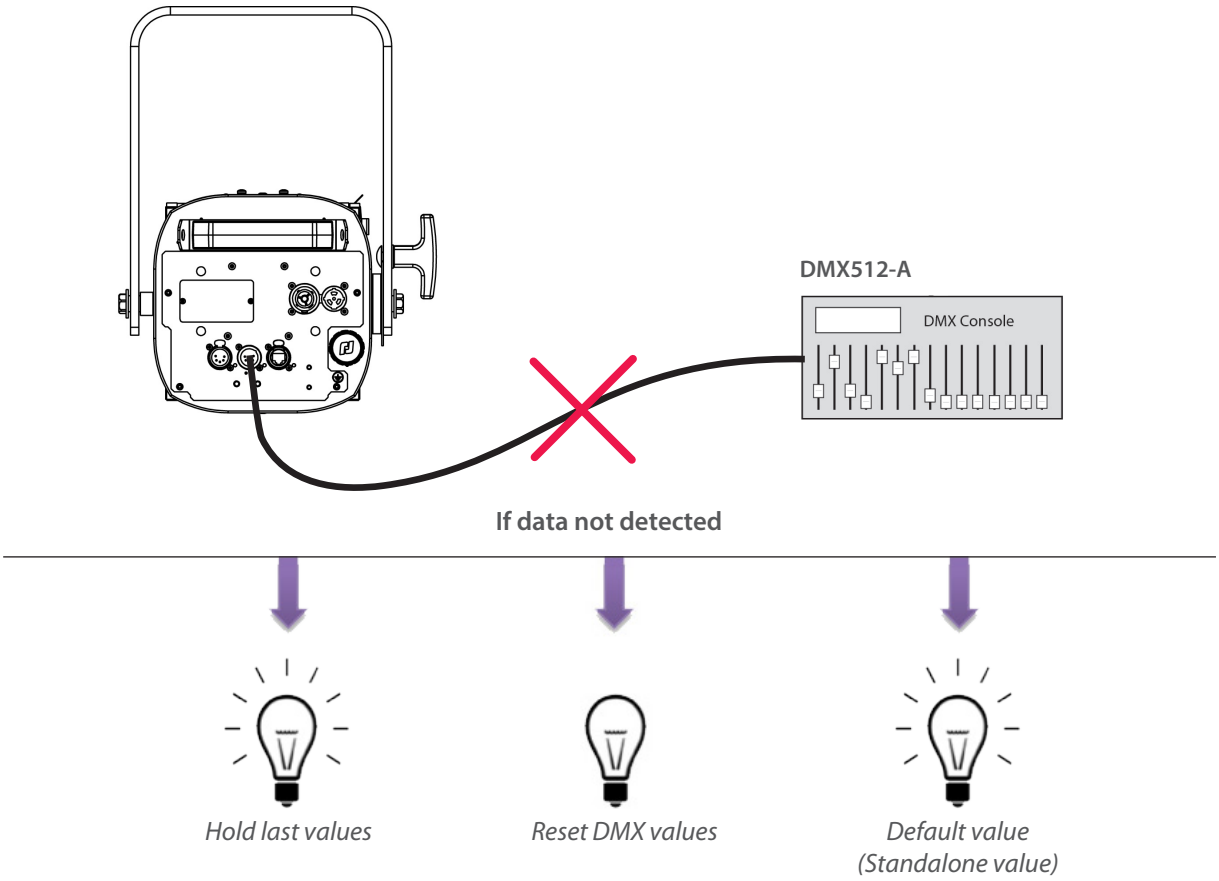


***Caution**:*
Activate DMX in protocol mode beforehand.

5.2.3 Parameters

5.2.3.1 DMX Hold

➡ Set through RDM protocol, Web interface or local control



5.2.4 DMX chart

DMX Channel	Mode 1: Dimmer8B	Mode 2: Dimmer16B	Mode 3: Profile8B	Mode 4: Profile16b	Mode 5: Followspot8b	Mode 6: Followspot16b
1	Dimmer	Dimmer	Dimmer	Dimmer	Dimmer	Dimmer
2		Dimmer fine	Strobe duration	Dimmer fine	Master	Dimmer fine
3			Strobe speed	Strobe duration	Strobe duration	Master
4			Response time	Strobe speed	Strobe speed	Master fine
5			Control mode	Response time	Response time	Strobe duration
6				Control mode	Control mode	Strobe speed
7						Response time
8						Control mode

5.2.5 DMX ranges

5.2.5.1 Strobe duration

Range min	Range max	Function
0	0	Strobe OFF
1	255	Strobe ON - 1 ms → 20 ms

5.2.5.2 Strobe speed

Range min	Range max	Function
0	255	Frequency: 0,1 Hz → 10 Hz

5.2.5.3 Response time

Range min	Range max	Function
0	0	OFF
1	255	Response time: 0,20 ms → 4 s

5.2.5.4 Control mode*

Range min	Range max	Function
0	0	
1	10	RDM disabled
11	20	RDM enabled
21	100	not used
101	110	Cooling mode: Silent
111	120	Cooling mode: Normal
121	130	Cooling mode: Full power
131	140	Front Ext disable
141	150	Front Ext enable
151	255	not used

(*) Function activated after 5 seconds - need to go back to zero to activate second function.

5.3 RDM remote control

5.3.1 Protocol

ANSI E1.20 – 2010 / ANSI E1.37 - 1

For more information about RDM protocol: http://www.rdmprotocol.org/

5.3.2 Configuration

PID		Description	Standard	Get	Set	Queued_ Message	Ack_Timer	VERSION 4.00
Network Management								
00	01	DISCOVERY_UNIQUE_BRANCH	E1.20					✓
00	02	DISCOVERY_MUTE	E1.20		✓			✓
00	03	DISCOVERY_UNMUTE	E1.20		✓			✓
00	15	COMMUNICATION_STATUS	E1.20	✓	✓			✓
Status Collection								
00	20	QUEUED_MESSAGE	E1.20	✓				✓
00	30	STATUS_MESSAGES	E1.20	✓				✓
00	31	STATUS_ID_DESCRIPTION	E1.20	✓				✓
00	32	CLEAR_STATUS_ID	E1.20		✓			✓
00	33	QUEUED_MESSAGE_SENSOR_SUBSCRIBE	E1.20-2023	✓	✓			
RDM Information								
00	50	SUPPORTED_PARAMETERS	E1.20	✓				✓
00	51	PARAMETER_DESCRIPTION	E1.20	✓				✓
Product Information								
00	60	DEVICE_INFO	E1.20	✓			✓	✓
00	70	PRODUCT_DETAIL_ID_LIST	E1.20	✓				✓
00	80	DEVICE_MODEL_DESCRIPTION	E1.20	✓				✓
00	81	MANUFACTURER_LABEL	E1.20	✓				✓
00	82	DEVICE_LABEL	E1.20	✓	✓	✓	✓	✓
00	90	FACTORY_DEFAULTS	E1.20	✓	✓		✓	✓
00	C0	SOFTWARE_VERSION_LABEL	E1.20	✓			✓	✓
00	C2	BOOT_SOFTWARE_VERSION_LABEL	E1.20	✓				✓
DMX512 Setup								
00	E0	DMX512_PERSONALITY	E1.20	✓	✓	✓	✓	✓
00	E1	DMX512_PERSONALITY_DESCRIPTION	E1.20	✓				✓
00	F0	DMX512_STARTING_ADDRESS	E1.20	✓	✓	✓	✓	✓
01	20	SLOT_INFO	E1.20	✓				✓
01	21	SLOT_DESCRIPTION	E1.20	✓				✓
Sensors								
02	00	SENSOR_DEFINITION	E1.20	✓				✓
02	01	SENSOR_VALUE	E1.20	✓				✓
Dimmer Settings								
03	40	DIMMER_INFO	E1.37-1	✓				✓
03	42	MAXIMUM_LEVEL	E1.37-1	✓	✓	✓	✓	✓
03	43	CURVE	E1.37-1	✓	✓	✓	✓	✓
03	44	CURVE_DESCRIPTION	E1.37-1	✓				✓
03	45	OUTPUT_RESPONSE_TIME	E1.37-1	✓	✓	✓	✓	✓
03	46	OUTPUT_RESPONSE_TIME_DESCRIPTION	E1.37-1	✓				✓
03	47	MODULATION_FREQUENCY	E1.37-1	✓	✓	✓	✓	✓
03	48	MODULATION_FREQUENCY_DESCRIPTION	E1.37-1	✓				✓
Power / Lamp Settings								
04	00	DEVICE_HOURS	E1.20	✓				✓
04	01	LAMP_HOURS	E1.20	✓	✓			✓
Display Settings								
05	01	DISPLAY_LEVEL	E1.20	✓	✓	✓	✓	✓

PID		Description	Standard	Get	Set	Queued_ Message	Ack_Timer	SULLY 4.00
Control								
10	00	IDENTIFY_DEVICE	E1.20	✓	✓	✓		✓
10	01	RESET_DEVICE	E1.20		✓		✓	✓
10	20	PERFORM_SELFTEST	E1.20	✓	✓	✓	✓	✓
10	21	SELF_TEST_DESCRIPTION	E1.20					✓
RDMnet Management								
07	00	LIST_INTERFACES	E1.37-2	✓				✓
07	01	INTERFACE_LABEL	E1.37-2	✓				✓
07	02	INTERFACE_HARDWARE_ADRESS_TYPE1	E1.37-2	✓				✓
07	03	IPV4_DHCP_MODE	E1.37-2	✓	✓		✓	✓
07	05	IPV4_CURRENT_ADDRESS	E1.37-2	✓			✓	✓
07	06	IPV4_STATIC_ADDRESS	E1.37-2	✓	✓			✓
07	09	INTERFACE_APPLY_CONFIGURATION	E1.37-2		✓			✓
07	0A	IPV4_DEFAULT_ROUTE	E1.37-2	✓	✓		✓	✓
07	0B	DNS_IPV4_NAME_SERVER	E1.37-2	✓	✓		✓	✓
PID Manufacturer								
85	58	SELFTEST_RESULT	E1.20	✓				✓
85	59	CURRENT_IP_ADDRESS	E1.20	✓			✓	✓
85	5A	CURRENT_NETMASK	E1.20	✓			✓	✓
85	5B	CURRENT_DRIVER_STATUS	E1.20	✓			✓	✓
85	5C	CUSTOM_RESPONSE_TIME_DESCRIPTION	E1.20	✓				✓
85	5D	CUSTOM_RESPONSE_TIME_VALUE	E1.20	✓	✓	✓	✓	✓
85	60	DATA_MODE_DESCRIPTION	E1.20	✓				✓
85	61	DATA_MODE_VALUE	E1.20	✓	✓	✓	✓	✓
85	62	STANDALONE_VALUE_DESCRIPTION	E1.20	✓				✓
85	63	STANDALONE_VALUE	E1.20	✓	✓	✓	✓	✓
85	64	SACN_UNIVERSE_VALUE_DESCRIPTION	E1.20	✓				✓
85	65	SACN_UNIVERSE_VALUE	E1.20	✓	✓	✓	✓	✓
85	66	ARTNET_UNIVERSE_VALUE_DESCRIPTION	E1.20	✓				✓
85	67	ARTNET_UNIVERSE_VALUE	E1.20	✓	✓	✓	✓	✓
85	68	SERIAL_DESCRIPTION	E1.20	✓				✓
85	69	SERIAL	E1.20	✓	✓	✓		✓
85	6A	DMX_HOLD_DESCRIPTION	E1.20	✓				✓
85	6B	DMX_HOLD	E1.20	✓	✓	✓	✓	✓
85	6C	COMMAND_LOCK_DESCRIPTION	E1.20	✓				✓
85	6D	COMMAND_LOCK_VALUE	E1.20	✓	✓	✓	✓	✓
85	6E	DRIVER_CALIBRATE_DESCRIPTION	E1.20	✓				✓
85	6F	DRIVER_CALIBRATE_VALUE	E1.20	✓	✓	✓	✓	✓
85	70	NODE_DESCRIPTION	E1.20	✓				✓
85	71	NODE_VALUE	E1.20	✓	✓	✓	✓	✓
85	72	TERMINATOR_DESCRIPTION	E1.20	✓				✓
85	73	TERMINATOR	E1.20	✓	✓	✓	✓	✓
85	74	DMX_ERROR_COUNTER_DESCRIPTION	E1.20	✓				✓
85	75	DMX_ERROR_COUNTER	E1.20	✓	✓	✓	✓	✓

5.4 Art-Net remote control

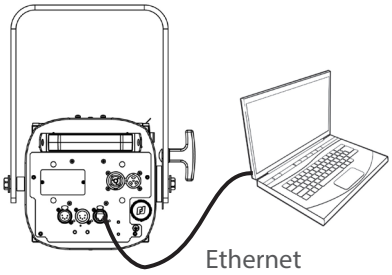
5.4.1 Protocol

Artistic Licence Art-Net v3 & v4.

For more information about Art-Net protocol: http://art-net.org.uk/

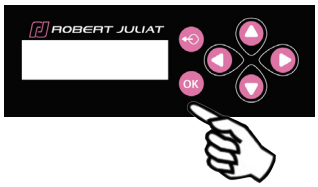
5.4.2 Configuration

Set mode through Web interface
(***see 5.7* Web interface**)

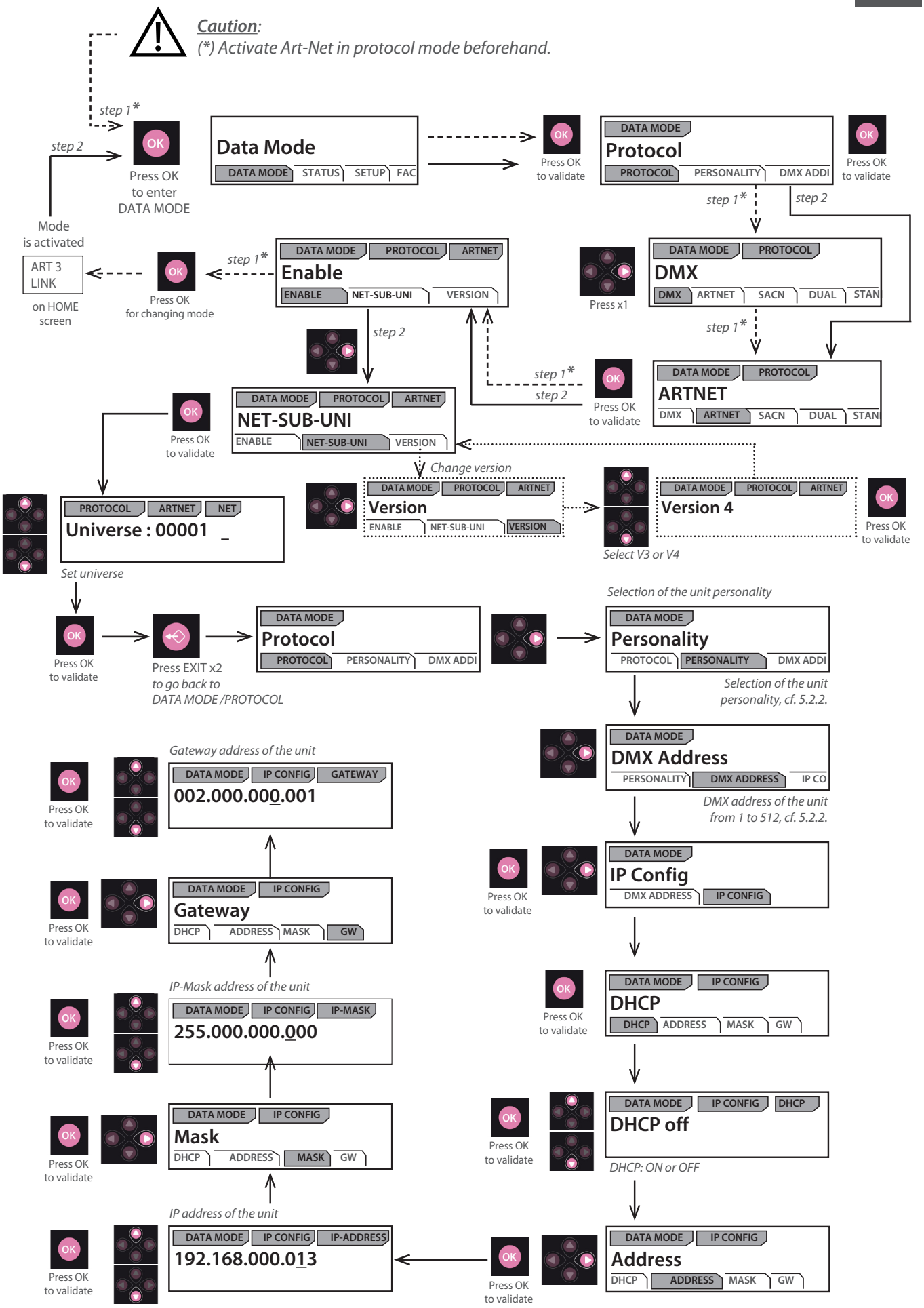


Ethernet
connection

Locally, when equipped with this option



1 - If necessary, change IP settings
2 - Set Art-Net Universe
3 - Set DMX address
4 - Set personality mode (***see 5.2.4.* DMX chart**)


Caution:
(*) Activate Art-Net in protocol mode beforehand.
step 1*
step 2
Press OK to enter DATA MODE
Mode is activated
ART 3 LINK
on HOME screen
Press OK for changing mode
Data Mode
DATA MODE STATUS SETUP FAC
Press OK to validate
DATA MODE
Protocol
PROTOCOL PERSONALITY DMX ADDI
Enable
ENABLE NET-SUB-UNI VERSION
DMX
DMX ARTNET SACN DUAL STAN
Press x1
ARTNET
NET-SUB-UNI
Change version
Version
Version 4
Select V3 or V4
Universe : 00001 _
Set universe
Press EXIT x2 to go back to DATA MODE /PROTOCOL
Selection of the unit personality
Personality
Selection of the unit personality, cf. 5.2.2.
DMX Address
DMX address of the unit from 1 to 512, cf. 5.2.2.
IP Config
DHCP
DHCP off
DHCP: ON or OFF
Address
192.168.000.013
IP address of the unit
Mask
255.000.000.000
IP-Mask address of the unit
Gateway
002.000.000.001
Gateway address of the unit

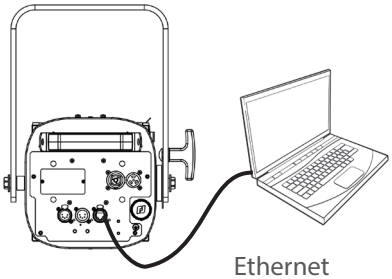
5.5 sACN remote control

5.5.1 Protocol

ANSI E1.31 – 2009 sACN (Streaming-ACN)

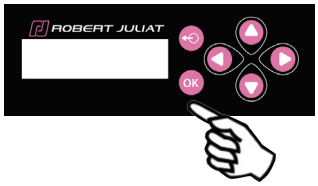
5.5.2 Configuration

Set mode through Web interface
(***see 5.7* Web interface**)

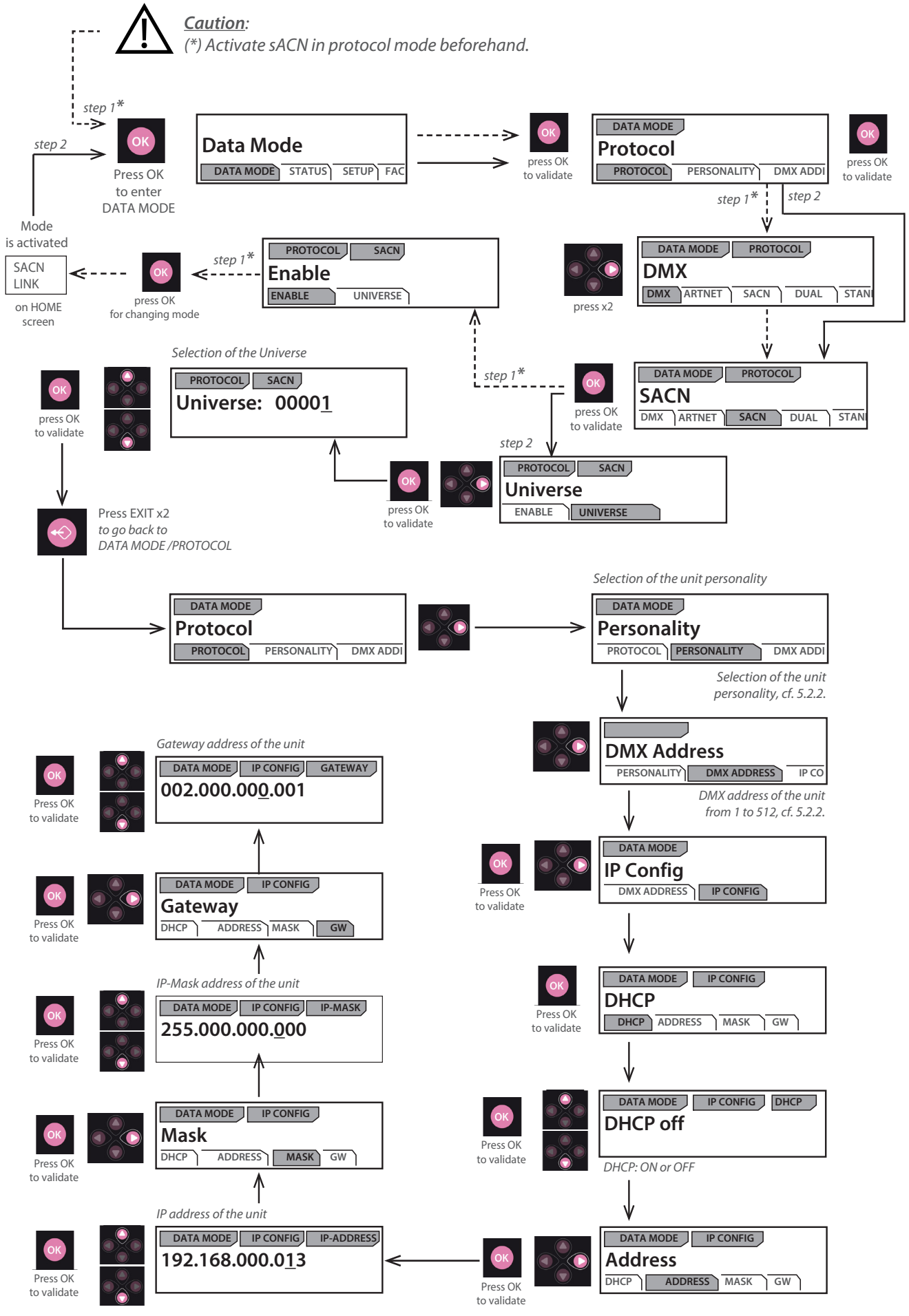


Ethernet
connection

Locally, when equipped with this option



1 - If necessary, change IP settings
2 - Set sACN universe
3 - Set DMX address
4 - Set personality mode (***see 5.2.4.* DMX chart**)


Caution:
(*) Activate sACN in protocol mode beforehand.
step 1*
step 2
OK
Press OK to enter DATA MODE
Data Mode
DATA MODE STATUS SETUP FAC
press OK to validate
DATA MODE
Protocol
PROTOCOL PERSONALITY DMX ADDI
press OK to validate
step 1*
step 2
Mode is activated
SACN LINK
on HOME screen
press OK for changing mode
step 1*
PROTOCOL SACN
Enable
ENABLE UNIVERSE
press x2
DATA MODE PROTOCOL
DMX
DMX ARTNET SACN DUAL STANI
Selection of the Universe
press OK to validate
PROTOCOL SACN
Universe: 00001
step 1*
press OK to validate
DATA MODE PROTOCOL
SACN
DMX ARTNET SACN DUAL STANI
step 2
PROTOCOL SACN
Universe
ENABLE UNIVERSE
press OK to validate
Press EXIT x2
to go back to
DATA MODE /PROTOCOL
DATA MODE
Protocol
PROTOCOL PERSONALITY DMX ADDI
Selection of the unit personality
DATA MODE
Personality
PROTOCOL PERSONALITY DMX ADDI
Selection of the unit personality, cf. 5.2.2.
DMX Address
PERSONALITY DMX ADDRESS IP CO
DMX address of the unit from 1 to 512, cf. 5.2.2.
Press OK to validate
DATA MODE
IP Config
DMX ADDRESS IP CONFIG
Press OK to validate
DATA MODE IP CONFIG
DHCP
DHCP ADDRESS MASK GW
Press OK to validate
DATA MODE IP CONFIG DHCP
DHCP off
Press OK to validate
DHCP: ON or OFF
DATA MODE IP CONFIG
Address
DHCP ADDRESS MASK GW
Press OK to validate
IP address of the unit
DATA MODE IP CONFIG IP-ADDRESS
192.168.000.013
Press OK to validate
IP-Mask address of the unit
DATA MODE IP CONFIG IP-MASK
255.000.000.000
Press OK to validate
DATA MODE IP CONFIG
Mask
DHCP ADDRESS MASK GW
Press OK to validate
Gateway address of the unit
DATA MODE IP CONFIG GATEWAY
002.000.000.001
Press OK to validate
DATA MODE IP CONFIG
Gateway
DHCP ADDRESS MASK GW
Press OK to validate

5.6 Dual remote control

5.6.1 Protocol

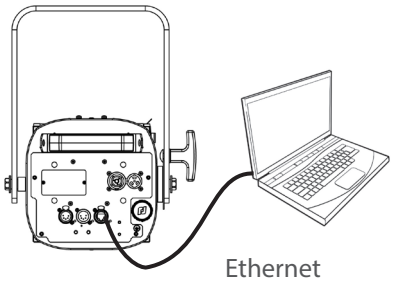
Dual Mode: Available only on an Ethernet network

It allows to send a DMX 512 signal through a Sacn data stream and at the same time to use an Artnet/ArtRdm data stream to control, set and monitor the equipment via RDM.

This mode can be set by Web interface or the local control screen.

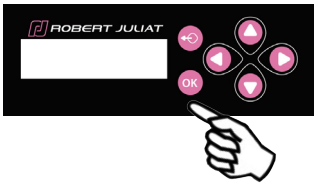
5.6.2 Configuration

Set mode through Web interface
(***see 5.7* Web interface**)

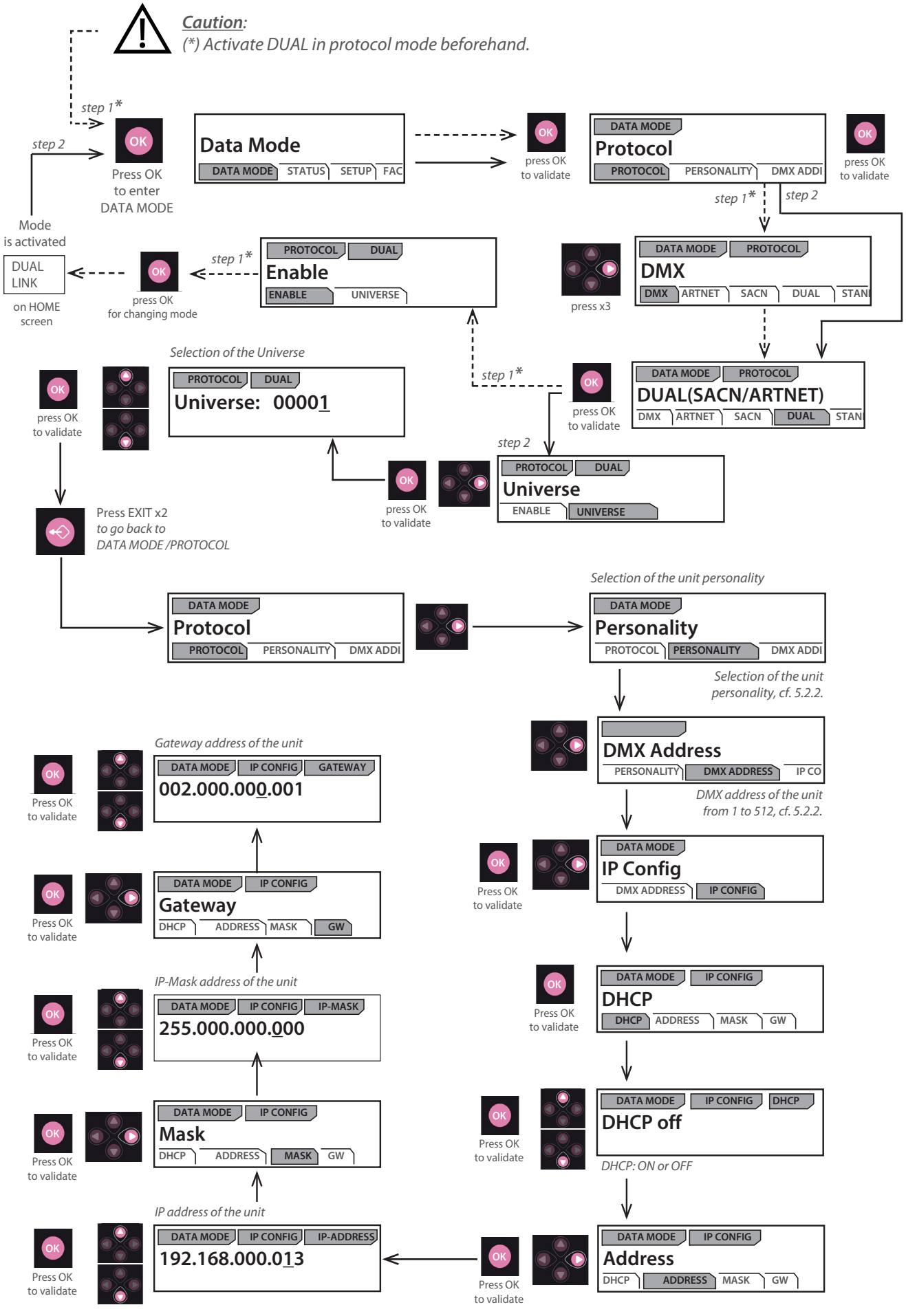


Ethernet
connection

Locally, when equipped with this option

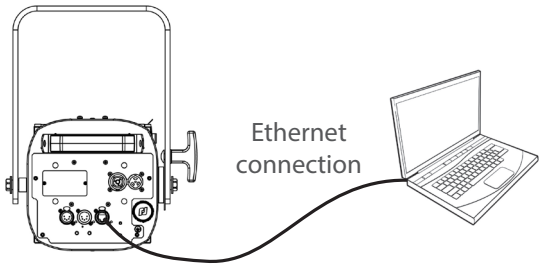


1 - If necessary, change IP settings
2 - Set DUAL universe
3 - Set DMX address
4 - Set personality mode (***see 5.2.4.* DMX chart**)


Caution:
(*) Activate DUAL in protocol mode beforehand.
step 1*
step 2
Press OK to enter DATA MODE
Data Mode
DATA MODE STATUS SETUP FAC
press OK to validate
DATA MODE
Protocol
PROTOCOL PERSONALITY DMX ADDI
press OK to validate
step 1*
step 2
Mode is activated
DUAL LINK
on HOME screen
press OK for changing mode
step 1*
PROTOCOL DUAL
Enable
ENABLE UNIVERSE
press x3
DATA MODE PROTOCOL
DMX
DMX ARTNET SACN DUAL STAN
Selection of the Universe
press OK to validate
PROTOCOL DUAL
Universe: 00001
step 1*
press OK to validate
DATA MODE PROTOCOL
DUAL(SACN/ARTNET)
DMX ARTNET SACN DUAL STAN
step 2
press OK to validate
PROTOCOL DUAL
Universe
ENABLE UNIVERSE
Press EXIT x2
to go back to
DATA MODE /PROTOCOL
DATA MODE
Protocol
PROTOCOL PERSONALITY DMX ADDI
Selection of the unit personality
DATA MODE
Personality
PROTOCOL PERSONALITY DMX ADDI
Selection of the unit personality, cf. 5.2.2.
DMX Address
PERSONALITY DMX ADDRESS IP CO
DMX address of the unit from 1 to 512, cf. 5.2.2.
Press OK to validate
DATA MODE
IP Config
DMX ADDRESS IP CONFIG
Press OK to validate
DATA MODE IP CONFIG
DHCP
DHCP ADDRESS MASK GW
Press OK to validate
DATA MODE IP CONFIG DHCP
DHCP off
DHCP: ON or OFF
Press OK to validate
DATA MODE IP CONFIG
Address
DHCP ADDRESS MASK GW
Press OK to validate
IP address of the unit
DATA MODE IP CONFIG IP-ADDRESS
192.168.000.013
Press OK to validate
IP-Mask address of the unit
DATA MODE IP CONFIG IP-MASK
255.000.000.000
Press OK to validate
DATA MODE IP CONFIG
Mask
DHCP ADDRESS MASK GW
Press OK to validate
Gateway address of the unit
DATA MODE IP CONFIG GATEWAY
002.000.000.001
Press OK to validate
DATA MODE IP CONFIG
Gateway
DHCP ADDRESS MASK GW
Press OK to validate

5.7 Web interface

5.7.1 Control



The fixture must be connected to a compatible network or directly to a computer using an ethernet cable.

5.7.2 Default IP address

By defaut :
DHCP = OFF
Address = 2.XXX.XXX.XXX
Mask = 255.0.0.0

➡ If address unknown (due to previous modification) you can retrieve the current IP address with an RDM Controller or RDM Test Tool. As a last resort a hard reset can be done (***see 6.5*** **Factory defaults**).

5.7.3 Network IP of the computer

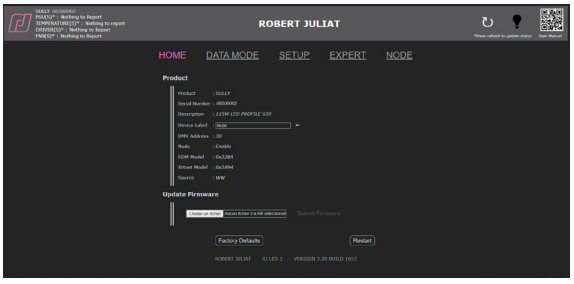
The computer must be on the same network as the Sully fixture.
Please refer to your computer Operating System to change IPV4 parameters :

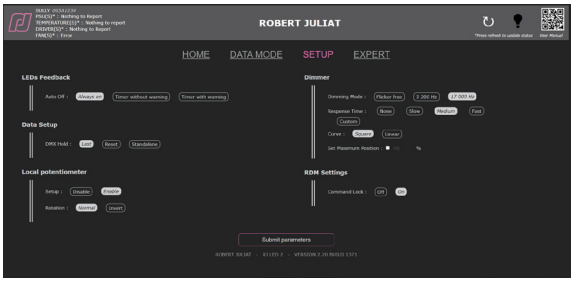
- **Microsoft Windows:**
  https://support.microsoft.com/en-us/windows/change-tcp-ip-settings-bd0a07af-15f5-cd6a-363f-ca2b6f391ace
- **MAC OS:** https://support.apple.com/en-gb/guide/mac-help/mchlp2718/10.15/mac/10.15

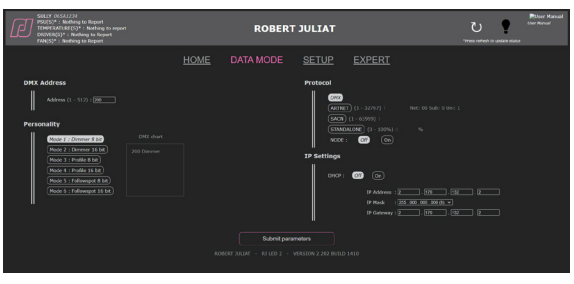
1 - ADDRESS = 2.XXX.XXX.YYY with YYY ≠ XXX
Do not use the same IP address as the Sully fixture
2 - MASK = 255.0.0.0

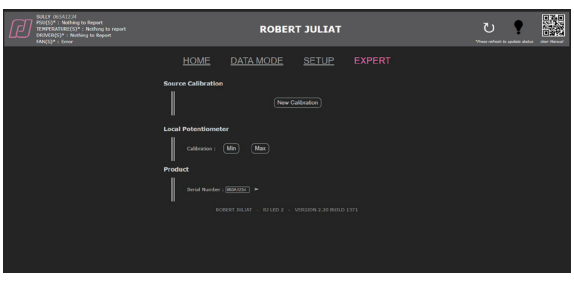
5.7.4 Connect to web interface

1 - Open a web browser (Microsoft Edge, Firefox, Apple Safari...)
2 - Enter the URL address of the Sully fixture: http://2.XXX.XXX.XXX
3 - All parameters can be now modified









After updating your device with firmware V3.0, we strongly recommend that you update the source type (CCT) either to CW (Cold White) or WW (Warm White) by following the procedure described in the section below: ***5.7.5 CCT selection***

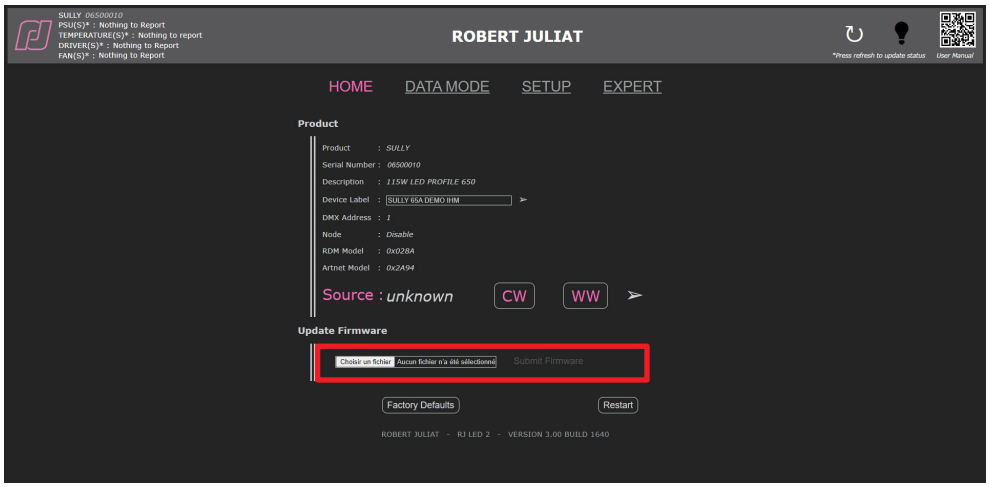
5.7.5 CCT selection

Until now, the CCT of the LED source was not taken into account. From V3.0, your device will be automatically recognized as CW or WW source.

Devices shipped with firmware prior to V3.0 do not have a designated CCT.
After updating to V3.0, it is highly recommended to specify the CCT of your device.
For this you will have to stay on the Web Page that you used for the update.

In the **Source** section of the HOME tab, the CCT of your device is indicated.

- If "unknown", please select the CCT of your device and click on icon CW or WW, then on the arrow ➢.



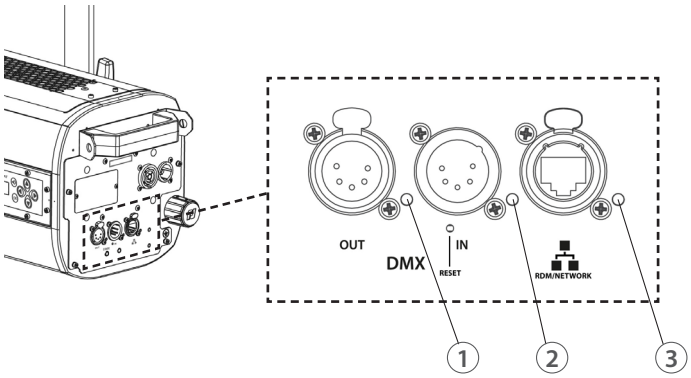
- Changing the source type changes the Model_ID as well. It is used in libraries to recognize devices automatically and for an Auto-Patch.
- If the source type has to be changed or in case of typing error, it will be always possible to change the source type in the Expert mode which is protected by a password.

5.8 LEDs Feedback

5.8.1 Trouble shooting

• During unit initialisation (power up) – up to 5 seconds:

1 DMX OUT	2 DMX IN	3 Network	Description
B	B	B	Unit OFF
R	R	R	Unit error
G	G	G	Unit has been reset successfully
B	B	R or G or B	RDM protocol activated



• After initialisation - Node mode "OFF":

1 DMX OUT	2 DMX IN		3 Network	
B	B		B	Display auto-off
B	G	DMX protocol detected without data received	R	No ethernet
B			G	Ethernet detected (link)
B			B	Ethernet detected + data
B	B	DMX protocol detected with data received	R	No ethernet
B			G	Ethernet detected (link)
B			B	Ethernet detected + data
B	R	No DMX protocol detected	R	No ethernet
B			G	Ethernet detected (link)
B			B	Ethernet detected + data
R	R		R	Unit error
B	Terminator ON			

• After initialisation - Node mode "ON":

1 DMX OUT		2 DMX IN	3 Network	
B		B	B	Display auto-off
G	DMX protocol detected without data received	B	R	No ethernet
		B	G	Ethernet detected (link)
		B	B	Ethernet detected + data
B	DMX protocol detected with data received	B	R	No ethernet
		B	G	Ethernet detected (link)
		B	B	Ethernet detected + data
R	No DMX protocol detected	B	R	No ethernet
		B	G	Ethernet detected (link)
		B	B	Ethernet detected + data
R		R	R	Unit error

5.8.2 Parameters

5.8.2.1 Intensity

➡ Set through RDM protocol, web interface or local control (option)

Mode	Description
Display level	Adjust the intensity of the feedback LEDs

5.8.2.2 Auto-OFF

➡ Set through RDM protocol, web interface or local control (option)

Mode	Description
Always ON	Feedback LED, always **ON**
Timer without warning	Feedback LED **OFF** after 20 seconds
Timer with warning	Feedback LED **OFF** after 20 seconds, **ON**, if warning information occurs

6.1 Preventive maintenance

6.1.1 Frequency

General maintenance should be performed at least once a year or more frequently if the equipment is operated in adverse conditions (smoke, heat, humidity, touring, etc.).

6.1.2 General cleaning

Remove dust from the unit.
Front glasses can be cleaned with solutions containing alcohol.

6.1.3 General visual check

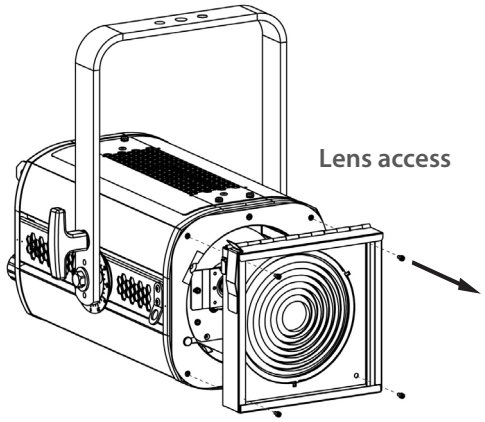
- No trace of heat.
- No loose contacts.
- No missing parts.
- Tighten mechanical assemblies (screws, bolts and nuts, etc.).

6.1.4 LED source

- Do not touch the surface of the LED source (no contact with your hands or any tools).
- Do not put compressed air directly on the source.
- Contact a certified RJ distributor in case of residuals or other objects located on the surface of the LED source.

6.1.5 LED house and lens cleaning

Lens and LED access:
- To clean the lens, use a soft cloth in combination with distilled water or isopropyl alcohol recommended. Do not use any cleaning product that contains solvents or abrasives, as these can cause surface damage.
- Dry with a soft lint-free cloth.
- The front lens and LED source can be accessed by removing the front holder for accessories (use a screwdriver to remove the 4 screws).



6.2 Analysis

In case of problem, contact RJ distributor with the following information:
- Model, version and serial number of the product.
- From the menu status:
  - Software version
  - LED board IDs
  - Device hours
- Description of the problem.

6.3 Electronic thermal management system

In case of overheating, light intensity will be reduced by the system.
Power reduction and temperature values are available by using a RDM protocol compatible device.

6.4 Firmware update

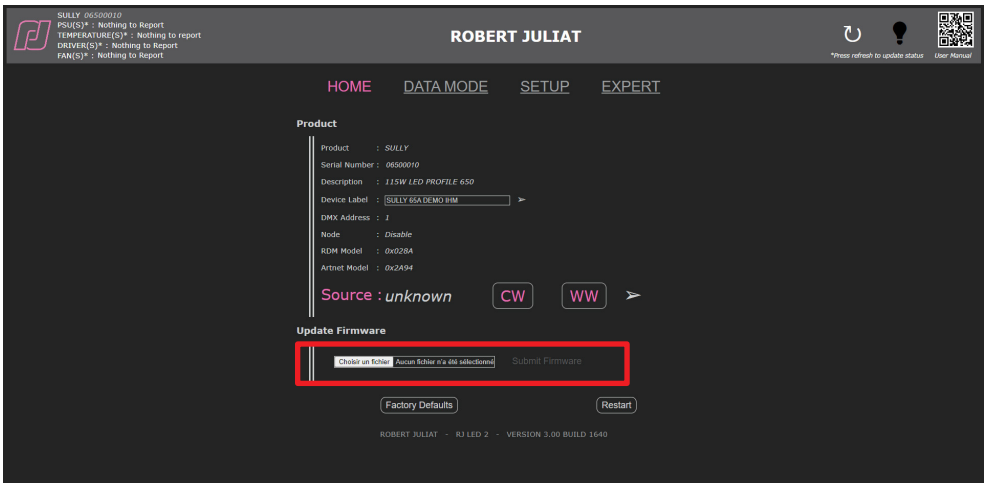
After updating your device with firmware V3.0, we strongly recommend that you update the source type (CCT) either to CW (Cold White) or WW (Warm White) by following the procedure described in the section below: ***CCT selection***

CCT selection

Until now, the CCT of the LED source was not taken into account. From V3.0, your device will be automatically recognized as CW or WW source.

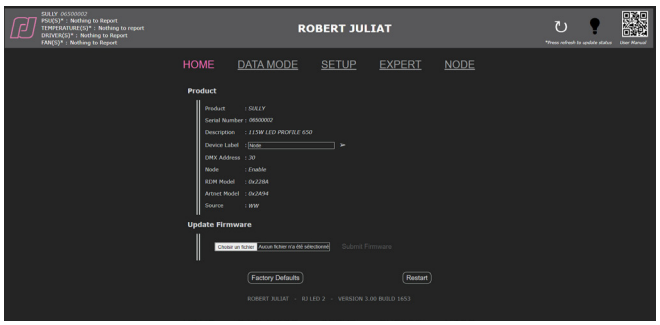
Devices shipped with firmware prior to V3.0 do not have a designated CCT.
After updating to V3.0, it is highly recommended to specify the CCT of your device.
For this you will have to stay on the Web Page that you used for the update.

In the **Source** section of the HOME tab, the CCT of your device is indicated.
• If "unknown", please select the CCT of your device and click on icon CW or WW, then on the arrow ➢.



• Changing the source type changes the Model_ID as well. It is used in libraries to recognize devices automatically and for an Auto-Patch.
• If the source type has to be changed or in case of typing error, it will be always possible to change the source type in the Expert mode which is protected by a password.

1. Firmware available on www.robertjuliat.com/singlelenslum/SULLY_305L
2. Download and unzip the file
   There are 4 files:
   - Firmware (.upd2 format)
   - Firmware History
   - Update Procedure
   - User Manual from firmware V3.0
3. Switch on the unit
4. Connect Network from computer to the unit
5. Open a web browser (Internet Explorer, Firefox, Chrome…)
6. Enter the URL address to connect to the web interface (***see 5.7***)
7. Upload your firmware file (.upd2) in the "Update firmware" section and then click on 'Submit firmware"



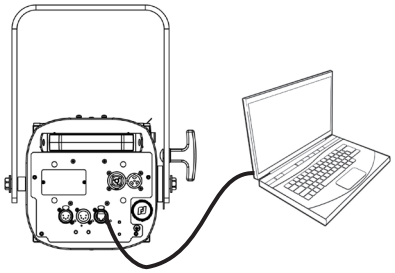
6.5 Factory defaults

6.5.1 Modes

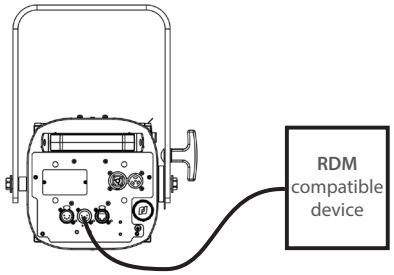
Mode	Description
Restart	Software reset – all user parameters are kept
Factory defaults	Set all user parameters to factory default value

6.5.2 Control

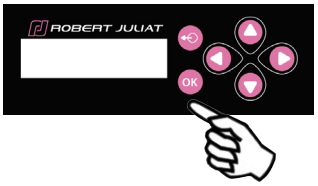
Set to factory defaults / reset through web interface (Home page)



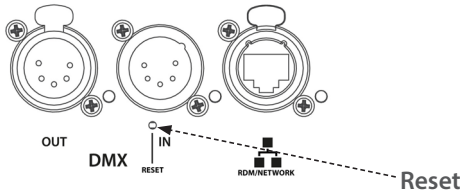
Set to factory defaults / reset through RDM protocol



Set to factory defaults / reset through local control, when equipped with this option

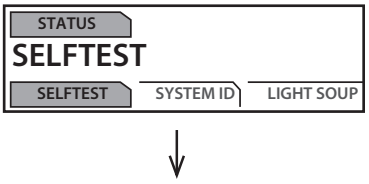


➡ If IP address unknown (due to a previous modification), IP address can be read from RDM protocol or a **hard reset** must be done:



While holding down the **reset** button with a paper clip, connect the unit to power and continue to hold the reset button until the 3 status light turn green.
The system is then ready for setup.

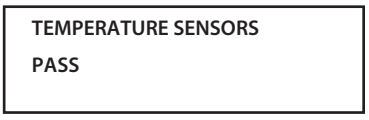
Press OK to start SELFTEST



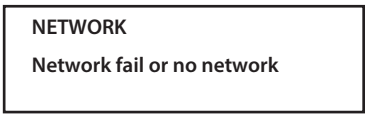
There are 9 tests available that will be performed by the fixture. At the end of each test, a PASS/FAIL message will be displayed.

Fan Test

PSU Test

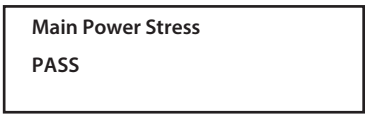


Temperature Test



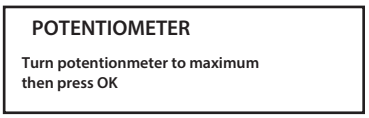
Network Test
A data connection is required.

Driver Test
Each driver is tested individually and a calibration is launched if required.

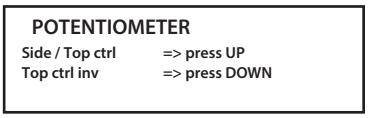


48V PSU Stress Test

Press OK



Dimmer Potentiometer Test
Follow the instructions.



DMX IN

DMX IN fail or NO DMX

DMX OUT

Plug DMX OUT then press OK

DMX OUT

DMX OUT fail or NO DMX

DMX Test

DMX data is required to complete this test.

LEDS

green

LEDS

blue

LEDS

red

Signal Leds Test

test report: Fail P=Pass F=Fail

fans P	pow P	temp P	dmxi P
dmxo F	net F	drv P	pot P

Test Report

To be communicated to **RJ Service** if requested :
service@robertjuliat.fr