Arolla Profile MP
DMX chart

01/2023

OPERATING MODE

Arolla Profile MP has one single operating mode that take 37 DMX channels.

CLAY PAKY S.p.A. - I - 24068 Seriate (BG) - Via Pastrengo, 3/B Phone +39 035 654311 - https://e-assist.tech/it/home

Arolla Profile MP
DMX chart

01/2023

DMX list

DMX Parameter	FUNCTION
1	CYAN
2	MAGENTA
3	YELLOW
4	CTO
5	COLOR FUNCTION
6	COLOR WHEEL
7	STROBE
8	DIMMER
9	DIMMER FINE
10	IRIS
11	ROTATING GOBO INSERTION
12	GOBO ROTATION
13	GOBO ROTATION FINE
14	PRISM INSERTION
15	PRISM ROTATION
16	EFFECT WHEEL INSERTION
17	EFFECT WHEEL ROTATION
18	FROST
19	FOCUS

DMX Parameter	FUNCTION
20	ZOOM
21	FRAMING BLADE 1 MOVEMENT
22	FRAMING BLADE 1 SWIVELLING
23	FRAMING BLADE 2 MOVEMENT
24	FRAMING BLADE 2 SWIVELLING
25	FRAMING BLADE 3 MOVEMENT
26	FRAMING BLADE 3 SWIVELLING
27	FRAMING BLADE 4 MOVEMENT
28	FRAMING BLADE 4 SWIVELLING
29	FRAMING ROTATION
30	FRAMING MACRO
31	FRAMING MACRO SPEED
32	PAN
33	PAN FINE
34	TILT
35	TILT FINE
36	RESET
37	FUNCTION

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Function details

DMX Parameter	*Bit Values*	*Function*
1	**000 – 255**	**CYAN** Linear 0 – 100% white to full (CMY) Linear 0 – 100% full to white (RGB)
2	**000 – 255**	**MAGENTA** Linear 0 – 100% white to full (CMY) Linear 0 – 100% full to white (RGB)
3	**000 – 255**	**YELLOW** Linear 0 – 100% white to full (CMY) Linear 0 – 100% full to white (RGB)
4	**000 – 255**	**CTO** Linear 0 – 100%white to full
5		**COLOR Function**
	000 – 085	Full Colour
	086 – 170	Half Colour
	171 – 255	Linear Path

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Arolla Profile MP
DMX chart

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DMX Parameter	Bit Values	Function
6		**COLOR WHEEL**
		FULL COLOR MODE
	000 – 009	White
	010 – 019	Dark Red
	020 – 029	Brilliant Blue
	030 – 039	Deep Green
	040 – 049	Golden Amber
	050 – 059	CRI-4
	060 – 069	Dark Orange
	070 – 079	Navy Blue
	080 – 127	CW rotation from slow to fast
	128 – 255	Linear colour insertion
		HALF COLOR MODE
	000 – 004	White
	005 – 009	Empty + Dark Red
	010 – 014	Dark Red
	015 – 019	Dark Red + Brilliant Blue
	020 – 024	Brilliant Blue
	025 – 029	Brilliant Blue + Deep Green
	030 – 034	Deep Green
	035 – 039	Deep Green + Golden Amber
	040 – 044	Golden Amber
	045 – 049	Golden Amber + CRI-4
	050 – 054	CRI-4
	055 – 059	CRI-4 + Dark Orange
	060 – 064	Dark Orange
	065 – 069	Dark Orange + Navy Blue
	070 – 074	Navy Blue
	075 – 079	Navy Blue + White
	080 – 127	CW rotation from slow to fast
	128 – 255	Linear colour insertion
		LINEAR PATH
	000	White
	010	Dark Red
	020	Brilliant Blue
	030	Deep Green
	040	Golden Amber
	050	CRI-4
	060	Dark Orange
	070	Navy Blue
	079	White
	080 – 127	CW rotation from slow to fast
	128 – 255	Linear colour insertion

Arolla Profile MP
DMX chart

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DMX Parameter	*Bit Values*	*Function*
7		**STROBE**
	000 – 003	Closed
	004 – 103	Linear Strobe slow (1 flash/sec) to fast (25 flashes/sec)
	104 – 107	Open
	108 – 207	Linear Pulse slow to fast
	208 – 212	Open
	213 – 225	Random Strobe at low frequency
	226 – 238	Random Strobe at medium frequency
	239 – 251	Random Strobe at high frequency
	252 – 255	Open
8		**DIMMER**
	000 – 255	Linear Dimmer 0-100%
9	**000 – 255**	**DIMMER FINE (16 bit)**
10		**IRIS**
	000 – 127	Linear open Min to Max
	128 – 131	Open
	132 – 171	Pulse slow to fast
	172 – 211	Pulse slow to fast - instant opening
	212 – 251	Pulse slow to fast - instant closing
	252 – 255	Open

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Arolla Profile MP
DMX chart

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DMX Parameter	Bit Values	Function
11		**ROTATING GOBO CHANGE**
	000 – 008	Empty position
	009 – 017	Gobo 1 
	018 – 026	Gobo 2 
	027 – 035	Gobo 3 
	036 – 044	Gobo 4 
	045 – 053	Gobo 5 
	054 – 062	Gobo 6 
	063 – 071	Gobo 7 
	072 – 113	Linear CCW wheel rotation from fast to slow
	114 – 117	Stop
	118 – 159	Linear CW wheel rotation from slow to fast
	160 – 173	Gobo 1 shakes low to fast
	174 – 187	Gobo 2 shakes low to fast
	188 – 200	Gobo 3 shakes slow to fast
	201 – 214	Gobo 4 shakes slow to fast
	215 – 227	Gobo 5 shakes slow to fast
	228 – 241	Gobo 6 shakes slow to fast
	242 - 255	Gobo 7 shakes slow to fast

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DMX chart

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DMX Parameter	Bit Values	Function
12		**GOBO ROTATION**
	000 – 127	Gobo indexing: 0° to 540° range
	128 – 190	Linear CW fast to slow
	191 – 192	Stop
	193 – 255	Linear CCW slow to fast
13		**FINE GOBO ROTATION**
	000 – 255	Fine CCW gobo Indexing
14		**4 Facet PRISM INSERTION**
	000 – 127	Prism Out
	128 – 255	Prism In
15		**PRISM ROTATION**
	000 – 127	Prism indexing: 0° to 540° range
	128 – 190	Continuous CW fast to slow
	191 – 192	Stop
	193 – 255	Continuous CCW slow to fast
16		**EFFECT WHEEL INSERTION**
	000 – 007	Effect wheel Out
	008 – 255	Effect wheel In
17		**EFFECT WHEEL ROTATION**
	000 – 004	Stop
	005 – 127	CW linear slow to fast
	128 – 131	Stop
	132 – 255	CCW linear slow fast

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Arolla Profile MP
DMX chart

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DMX Parameter	Bit Values	Function
18		**FROST**
	000 – 255	Linear Frost
19		**FOCUS**
	000 – 255	Linear Focus
20		**ZOOM**
	000 – 255	Linear min 0 to max 255 (beam angle 128 default setting)
21	000 – 255	**BLADE 1 - Linear Insertion**
22		**BLADE 1 SWIVELLING**
	000 – 127	Swivelling from -25 degrees to 0 degrees
	128	0 degrees
	129 – 255	Swivelling from 0 degrees to +25 degrees
23	000 – 255	**BLADE 2 - Linear Insertion**
24		**BLADE 2 SWIVELLING**
	000 – 127	Swivelling from -25 degrees to 0 degrees
	128	0 degrees
	129 – 255	Swivelling from 0 degrees to +25 degrees
25	000 – 255	**BLADE 3 - Linear Insertion**
26		**BLADE 3 SWIVELLING**
	000 – 127	Swivelling from -25 degrees to 0 degrees
	128	0 degrees
	129 – 255	Swivelling from 0 degrees to +25 degrees
27	000 – 255	**BLADE 4 - Linear Insertion**
28		**BLADE 4 SWIVELLING**
	000 – 127	Swivelling from -25 degrees to 0 degrees
	128	0 degrees
	129 – 255	Swivelling from 0 degrees to +25 degrees
29		**FRAMING ROTATION**
	000 – 127	Linear rotation CCW
	128	Middle
	129-255	Linear rotation CW

DMX Parameter	Bit Values	Function
30		**FRAMING MACRO EFFECTS**
	000 – 003	Macro OFF
	004 – 011	Macro 1
	012 – 018	Macro 2
	019 – 025	Macro 3
	026 – 032	Macro 4
	033 – 039	Macro 5
	040 – 047	Macro 6
	048 – 054	Macro 7
	055 – 061	Macro 8
	062 – 068	Macro 9
	069 – 075	Macro 10
	076 – 082	Macro 11
	083 – 090	Macro 12
	091 – 097	Macro 13
	098 – 104	Macro 14
	105 – 111	Macro 15
	112 – 118	Macro 16
	119 – 125	Macro 17
	126 – 133	Macro 18
	134 – 140	Macro 19
	141 – 147	Macro 20
	148 – 154	Macro 21
	155 – 161	Macro 22
	162 – 168	Macro 23
	169 – 176	Macro 24
	177 – 183	Macro 25
	184 – 190	Macro 26
	191 – 197	Macro 27
	198 – 204	Macro 28
	205 – 211	Macro 29
	212 – 219	Macro 30
	220 – 226	Macro 31
	227 – 233	Macro 32
	234 – 240	Macro 33
	241 – 247	Macro 34
	248 – 255	Macro 35
31		**FRAMING MACRO EFFECTS SPEED**
	000 – 255	Macro Speed Slow to Fast
32		**PAN**
	000 – 255	Pan CCW 0° to 540° (default setting)
33	**000 – 255**	**PAN FINE**

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DMX Parameter	Bit Values	Function
34		**TILT**
	000 – 255	Tilt CW 0° to 270° (default setting)
35	**000 – 255**	**TILT FINE**
36		**RESET:** The reset sequence is activated staying in the range for 5 seconds
	000 – 025	Unused range
	026 – 076	Effects reset
	077 – 127	Pan / Tilt reset
	128 – 255	Complete fixture reset
37		**FUNCTION**
	000 – 020	Unused range
	021 – 030	P/T Smooth OFF
	031 – 040	P/T Smooth ON (Default)
	041 – 050	Dimmer curve 1
	051 – 060	Dimmer curve 2
	061 – 070	Dimmer curve 3
	071 – 080	Dimmer curve 4
	081 – 090	Fan mode Auto (Default)
	091 – 095	Fan mode SLN
	096 – 100	Fan mode Theatre
	101 – 105	Fan mode RNR
	106 – 110	Fan mode Standard
	111 – 120	Pan/Tilt Slow speed
	121 – 130	Pan/Tilt Medium speed
	131 – 140	Pan/Tilt Fast speed (Default)
	141 – 150	CMY Normal speed
	151 – 160	CMY Fast speed (Default)
	161 – 170	Display OFF (Default)
	171 – 180	Display ON
	181 – 190	PWM Frequency 600Hz
	191 – 200	PWM Frequency 1200Hz
	201 – 210	PWM Frequency 2000Hz
	211 – 220	PWM Frequency 4000Hz
	221 – 230	PWM Frequency 6000Hz
	231 – 240	PWM Frequency 20000Hz (Default)
	241 – 255	Unused range
		IMPORTANT: The functions are activated/selected staying in the necessary range for 3 seconds

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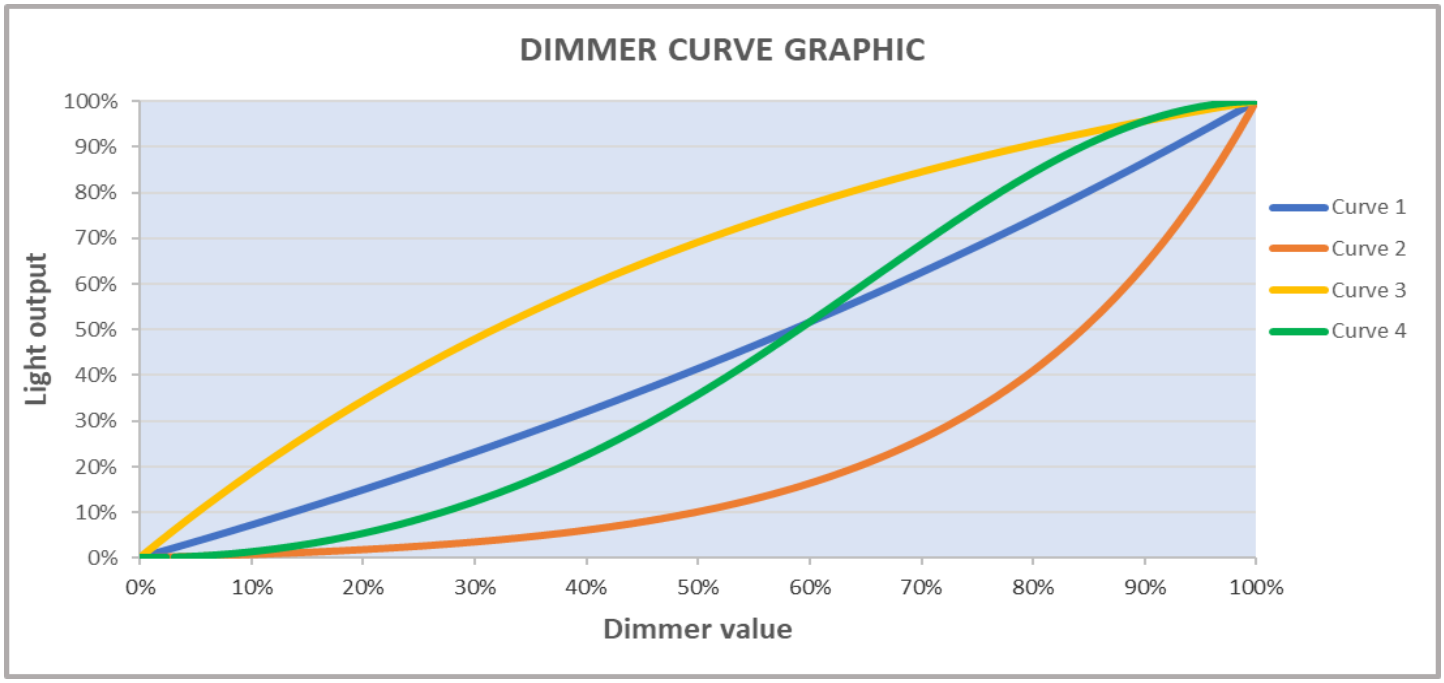
Arolla Profile MP
DMX chart

01/2023

IMPORTANT NOTE
To ensure reliable operation of the effects, it is suggested to keep the light source of the projector switch-on for few minutes before moving the effects. Claypaky use a high-performance lubricant that is designed to work within the high temperature environment in Claypaky's modern moving light fixtures. In cold environments, it may take several minutes for the lubricant to reach optimum fluidity and all functions to reach optimum performance.
To preserve the LED engine, it is suggested to set the Dimmer channel @ 0bit a few minutes before turning off the fixture.
To prevent accidental breakage of the effects, which could collide with each other's during transport, before switching the projector OFF, check that all the DMX parameters have been excluded (DMX level @0 bit).



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ENGLISH

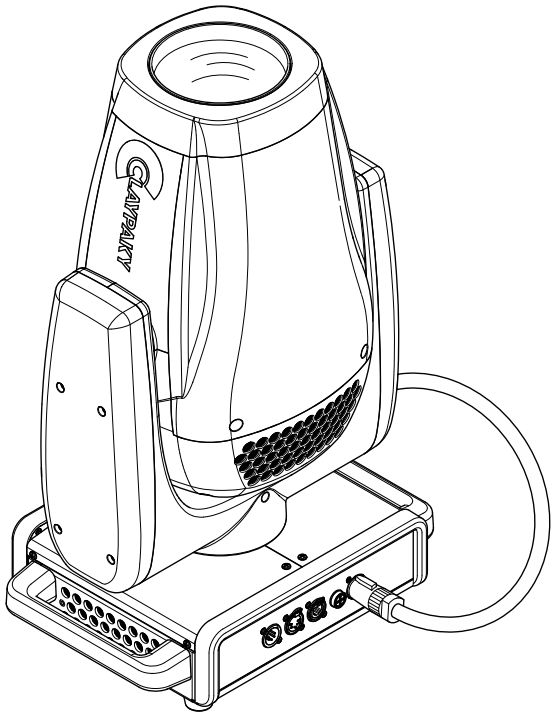
CLAYPAKY AN OSRAM BUSINESS

AROLLA PROFILE MP

CL3013

INSTRUCTION MANUAL

PRELIMINARY



INDEX

Congratulations on choosing a Claypaky product!
We thank you for your custom.
Please note that this product, as all the others in the rich Claypaky range, has been designed and made with total quality to ensure excellent performance and best meet your expectations and requirements.

1. SAFETY INFORMATION

EN

SAFETY INFORMATION
IMPORTANT: Claypaky recommends you carefully read and keep the safety information on this product, also available in digital format at the following link:
www.claypaky.com
Ref: FIS025 - Safety Information Arolla Spot/Profile MP

IT

INFORMAZIONI DI SICUREZZA
IMPORTANTE: Claypaky raccomanda di leggere accuratamente e conservare le informazioni di sicurezza relative a questo prodotto, sempre reperibili in versione digitale al seguente link:
www.claypaky.com
Rif: FIS025 - Safety Information Arolla Spot/Profile MP

DE

INFORMATIONEN ZUR SICHERHEIT
WICHTIG: Claypaky empfiehlt, die Sicherheitsinformationen bezüglich dieses Produkts genau zu lesen und aufzubewahren. Sie sind in Digitalversion immer unter folgendem Link auffindbar:
www.claypaky.com
Ref: FIS025 - Safety Information Arolla Spot/Profile MP

ES

INFORMACIONES DE SEGURIDAD
IMPORTANTE: Claypaky recomienda leer detenidamente y conservar la información de seguridad relativa a este producto. Además, está disponible una versión digital de la misma en el siguiente enlace:
www.claypaky.com
Ref: FIS025 - Safety Information Arolla Spot/Profile MP

FR

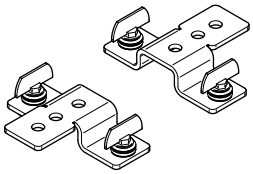
CONSIGNES DE SÉCURITÉ
IMPORTANT: Claypaky recommande de lire attentivement et de conserver les informations de sécurité relatives à ce produit, disponibles en version digitale au lien suivant:
www.claypaky.com
Réf. : FIS025 - Safety Information Arolla Spot/Profile MP

RU

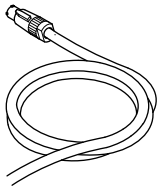
ИНСТРУКЦИЮ ПО ТЕХНИКЕ БЕЗОПАСНОСТИ
ВАЖНО: Claypaky рекомендует внимательно прочитать и сохранить инструкцию по технике безопасности данного изделия, которая всегда доступна в электронном формате по следующей ссылке:
www.claypaky.com
Наименование: FIS025 - Safety Information Arolla Spot/Profile MP

2. UNPACKING AND PREPARATION

1

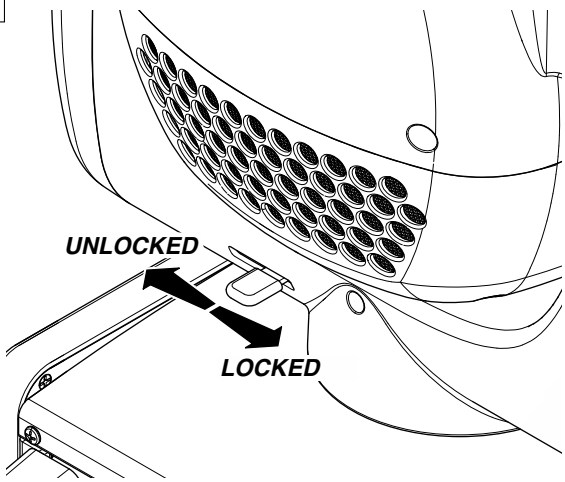


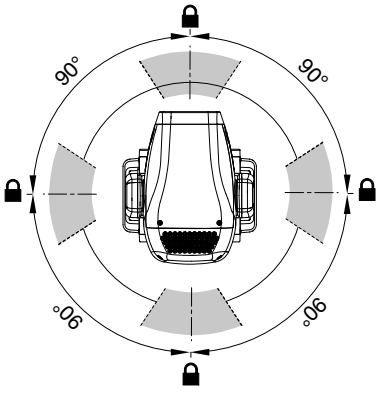
2 x 183102/805



Packing contents - Fig. 1

2





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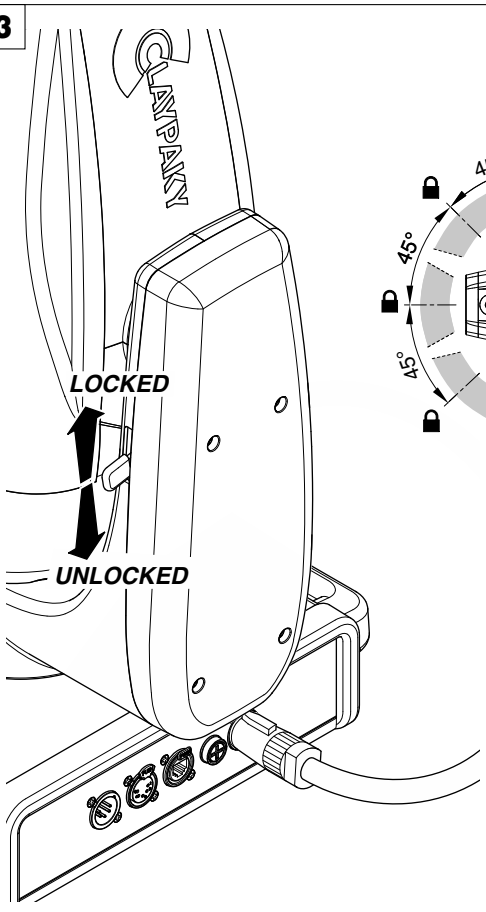
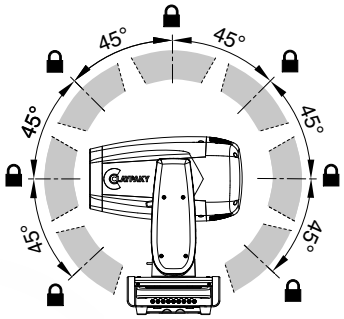




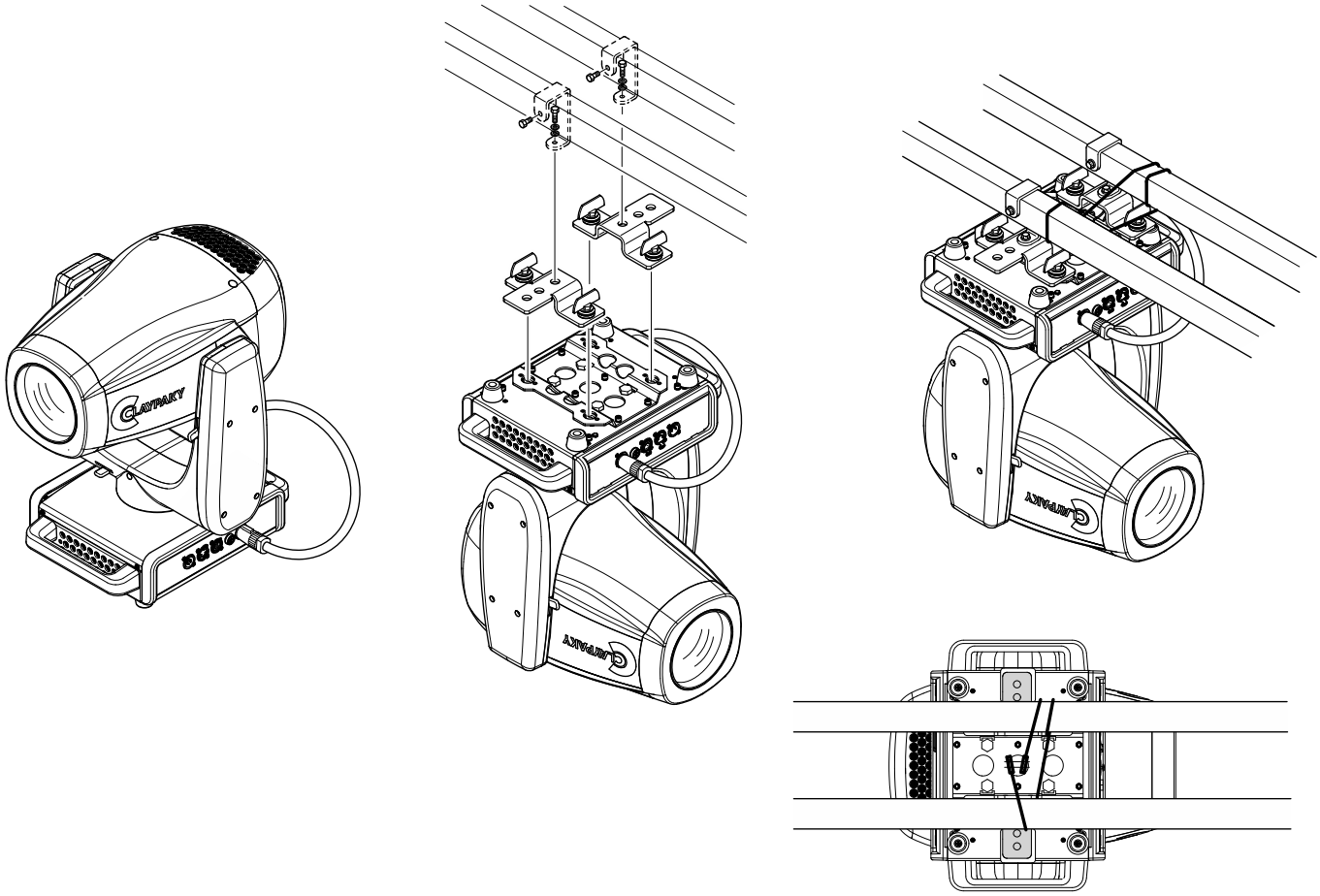
PAN Mechanism Lock and Release (every 90°) - Fig. 2

TILT Mechanism Lock and Release (every 45°) - Fig. 3

3. INSTALLATION AND START-UP

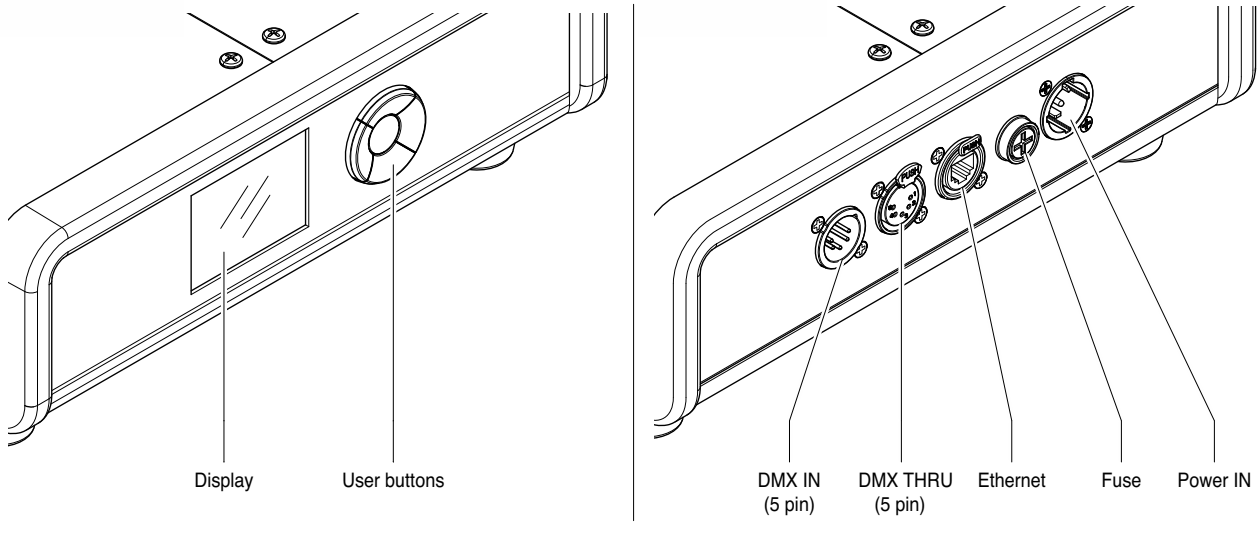
3.1 Installing the fixture

4



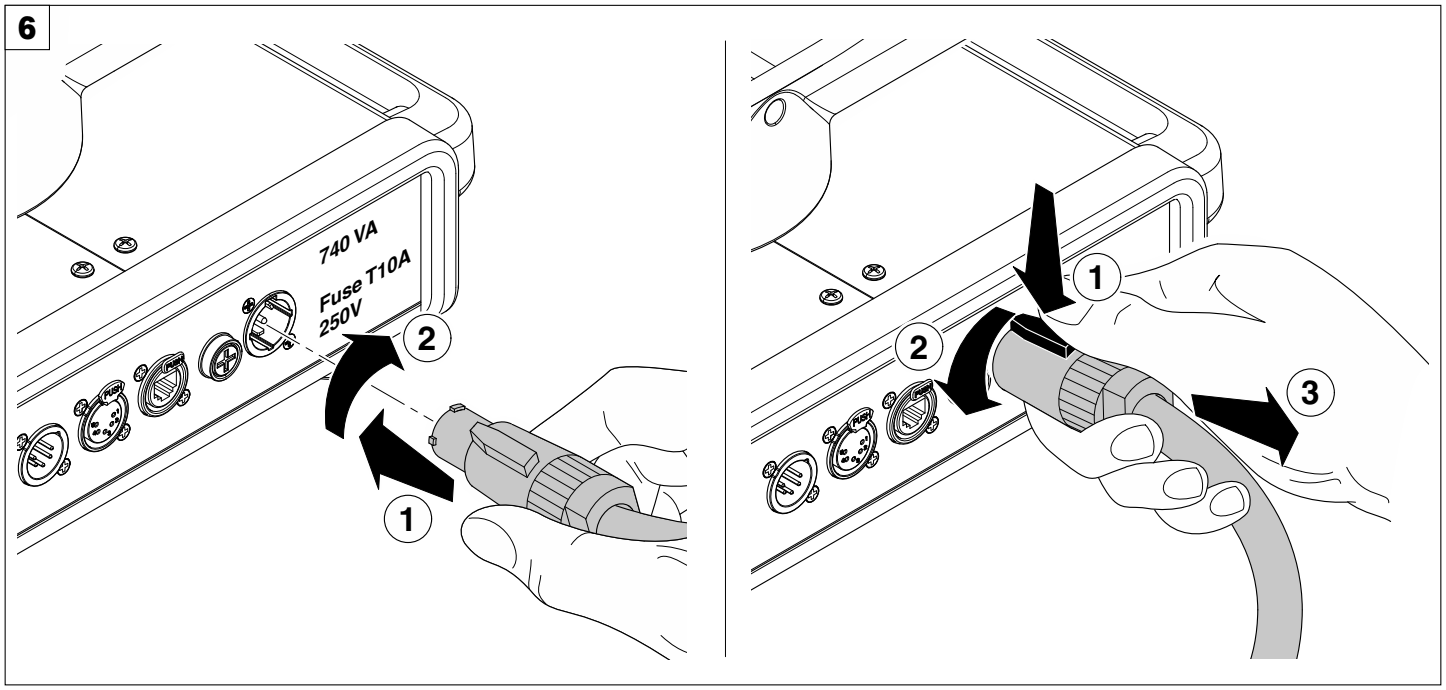
Installing the projector - Fig. 4
The projector can be installed on the floor resting on special rubber feet, on a truss or on the ceiling or wall.
WARNING: ***with the exception of when the projector is positioned on the floor, the safety cable must be fitted. (Cod. 105041/003 available on request). This must be securely fixed to the support structure of the projector and then connected to the fixing point at the centre of the base.***

5

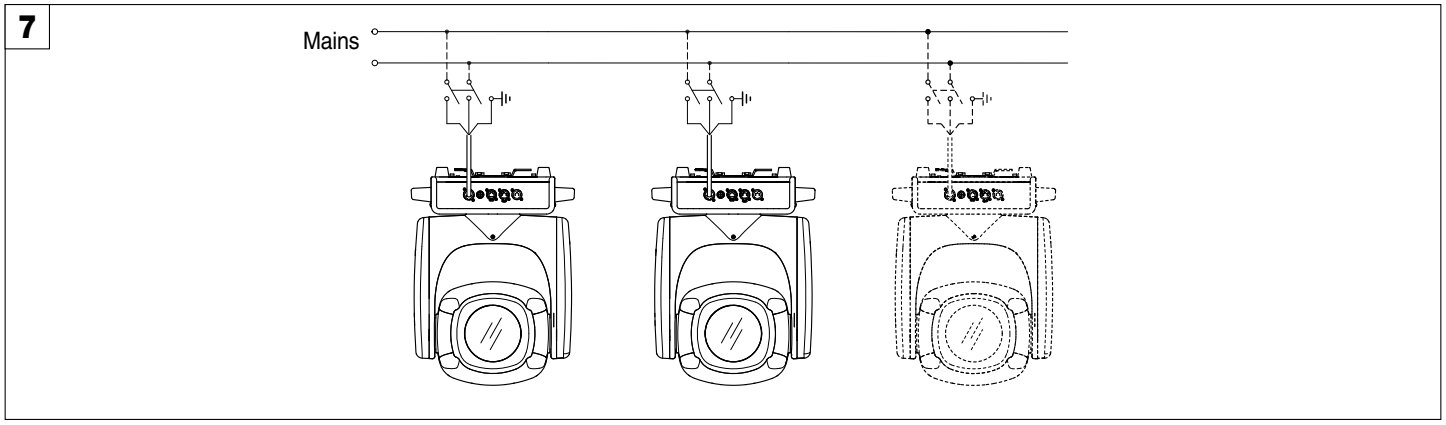


Control panel - Fig. 5

3.2 Connecting to manis supply

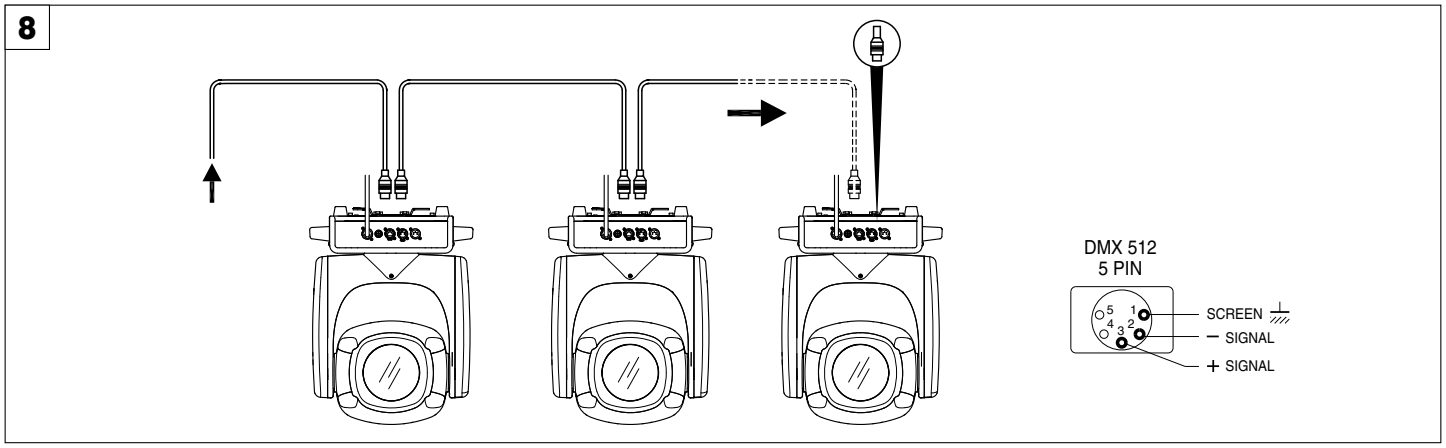


Connecting and disconnecting power cable - Fig. 6



Connecting to the mains supply - Fig. 7

3.3 Connecting the control signal line: DMX / Art-Net



Connecting to the control signal line (DMX) - Fig. 8

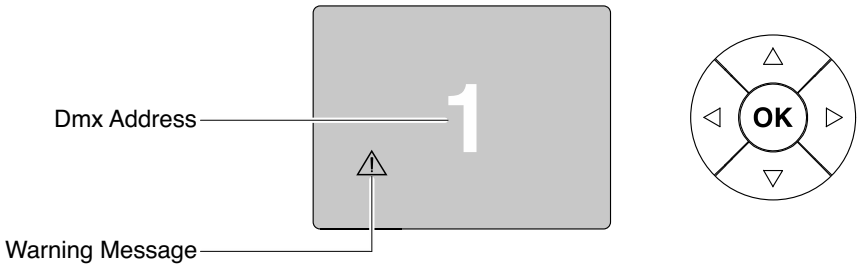
Use a cable conforming to specifications EIA RS-485: 2-pole twisted, shielded, 120Ohm characteristic impedance, 22-24 AWG, low capacity. Do not use microphone cable or other cable with characteristics differing from those specified. The end connections must be made using XLR type 5 pin male/female connectors. A terminating plug must be inserted into the last projector with a resistance of 120Ohm (minimum 1/4 W) between terminals 2 and 3.

IMPORTANT: The wires must not make contact with each other or with the metal casing of the connectors. The casing itself must be connected to the shield braid and to pin 1 of the connectors.

Continue →

3.4 Switching on the fixture and basic SetUp

9

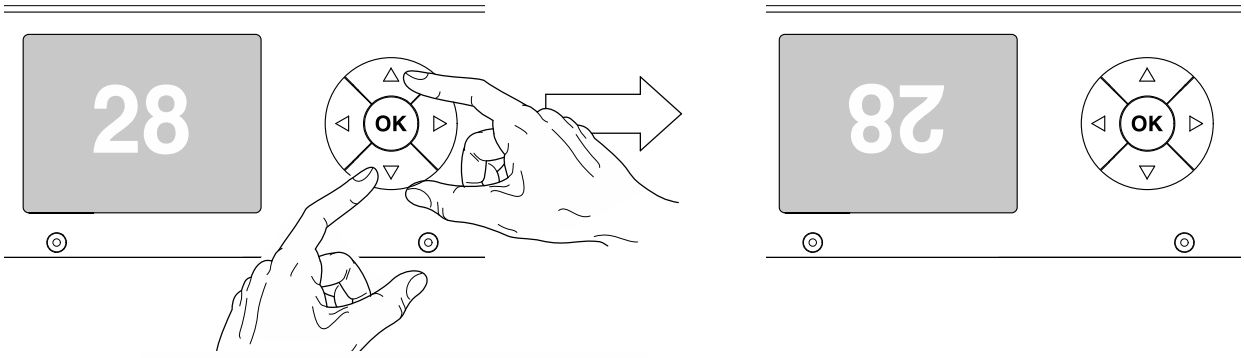


Switching on the projector - Fig. 9
Switch-on the fixture. The projector starts resetting the effects. At the same time, the following information scrolls on the display:

CLAYPAKY AN OSRAM BUSINESS	**Model** **Arolla** **Profile MP**	**Firmware** **Version X.X.X** **Date - Hour**	**Dmx Address xxx**

On conclusion of resetting in case of absence of the dmx signal, Pan and Tilt move to the “Home” position (Pan 128 bit - Tilt 128 bit). The control panel (Fig. 8) has a display and buttons for the complete programming and management of the projector menu. The display can be in one of two conditions: rest status and setting status. When it is in the rest status, the display shows the projector’s DMX address.
During menu setting status, after a wait time (about 30 seconds) without any key having been pressed, the display automatically returns to rest status. It should be noted than when this condition occurs, any possible value that has been modified but not yet confirmed with the OK key will be cancelled.

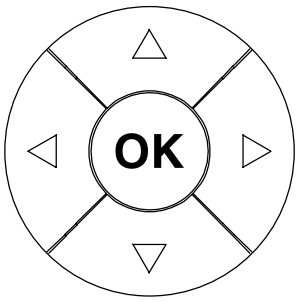
10



Reversal of the display - Fig. 10
To activate this function, press UP and DOWN keys simultaneously while the display is in the rest mode. This status will be memorised and maintained even for the next time it will be switched on. To return to the initial state, repeat the operation all over again.

Setting the projector starting address
On each projector, the starting address must be set for the control signal (addresses from 1 to 512).
The address can also be set with the projector switched off.

Functions of the buttons - Using the menu



OK	Confirms the displayed value, or activates the displayed function, or enters the successive menu.
DOWN	Decreases the value displayed (with auto-repetitions) or passes to the next item in the menu.
UP	Increases the value displayed (with auto-repetitions) or passes to the previous item in a menu.
LEFT	Return to the top level
RIGHT	Enters the successive menu.

USING THE MENU:

1) Press LEFT once – “Main Menu” appears on the display.
2) Use the UP and DOWN keys to select the menu to be used:
   - Setup (Setup Menu): To set the setting options.
   - Option (Option Menu): To set the operating options
   - Informations (Informations Menu): To read the counters, software version and other information.
   - Manual Control (Manual control Menu): To trigger the test and manual control functions.
   - Test (Test Menu): To check the proper functionning of effects
   - Advanced (Advanced Menu): Access to the "Advanced menu" is recommended for a trained technical personnel.
3) Press OK to display the first item in the selected menu.
4) Use the UP and DOWN keys to select the MENU items.

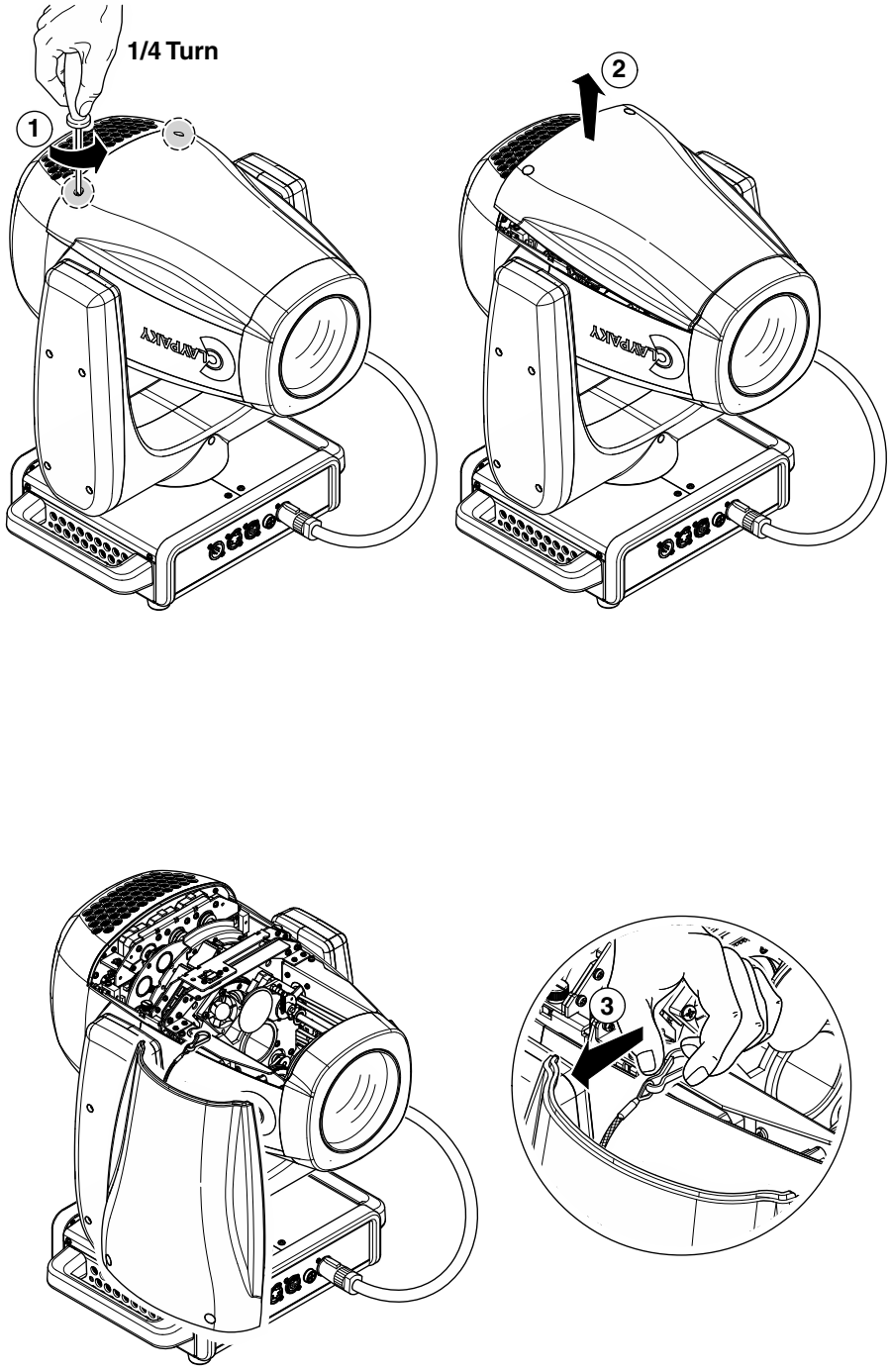
Setting addresses and options with the projector disconnected

The projector’s DMX address, as well as other possible operating options, can also be set when the appliance is disconnected from the electricity supply. All that is needed is to press RIGHT to momentarily activate the display and thus access the settings. Once the required operations have been carried out, the display will switch off again after a wait time of 30 seconds.

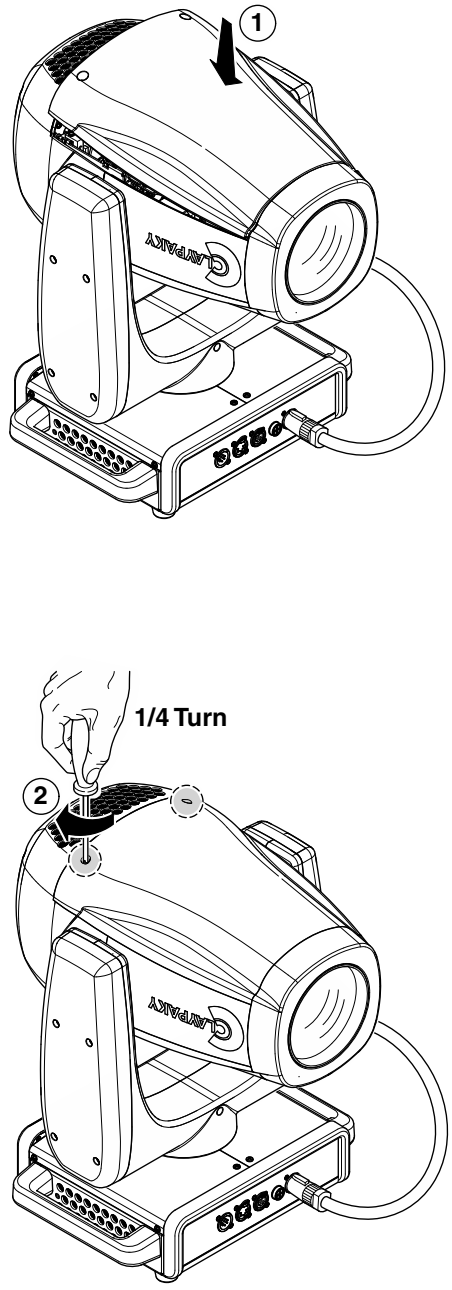
4. MAINTENANCE

4.1 Opening the covers

11



12



Locking and releasing Pan and Tilt movements - Refer to the instructions in the UNPACKING AND PREPARATION section.
Opening the head covers - Fig. 11.

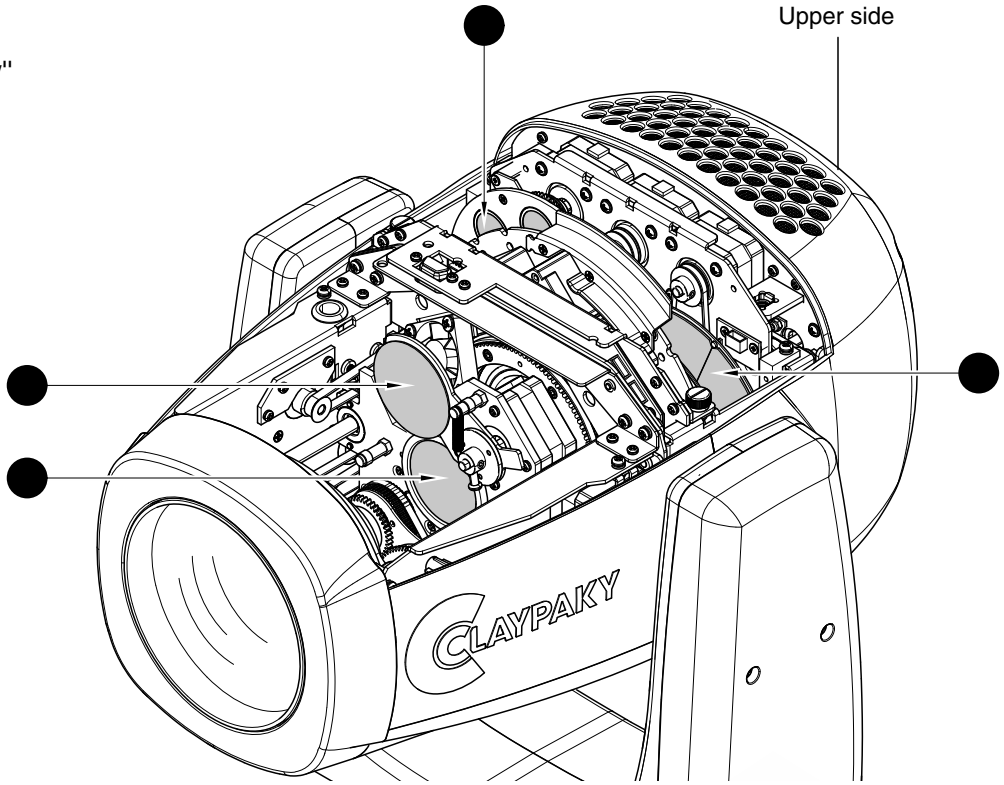
Closing the head covers - Fig. 12.

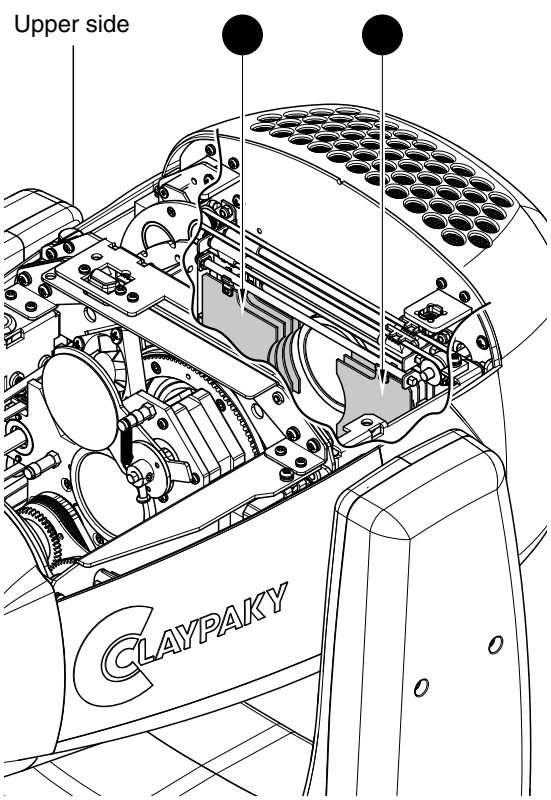
4.2 Periodical cleaning

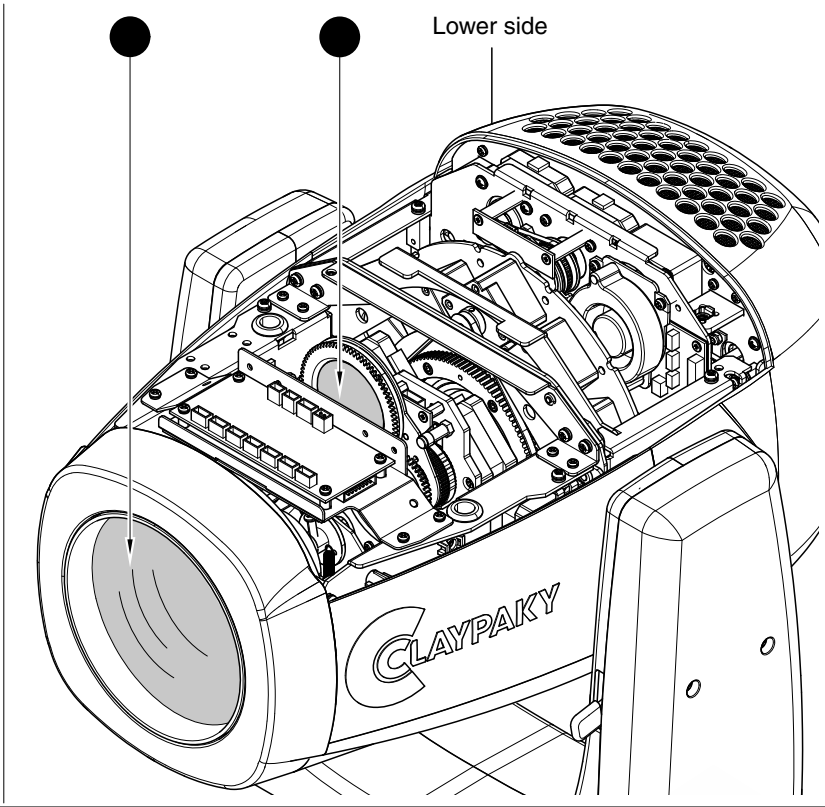
13

NOTE: keep a careful cleaning of the "CMY/colour filters assembly" to prevent rapid deterioration.

Light collimation system
This product contains internal light collimation system. Avoid intense light from any angle.







Periodical cleaning - Fig. 13

To ensure optimal operation and performance for a long time it is essential to periodically clean the parts subject to dust and grease deposits. The frequency with which the following operations are to be carried out depends on various factors, such as the amount of the effects and the quality of the working environment (air humidity, presence of dust, salinity, etc.).

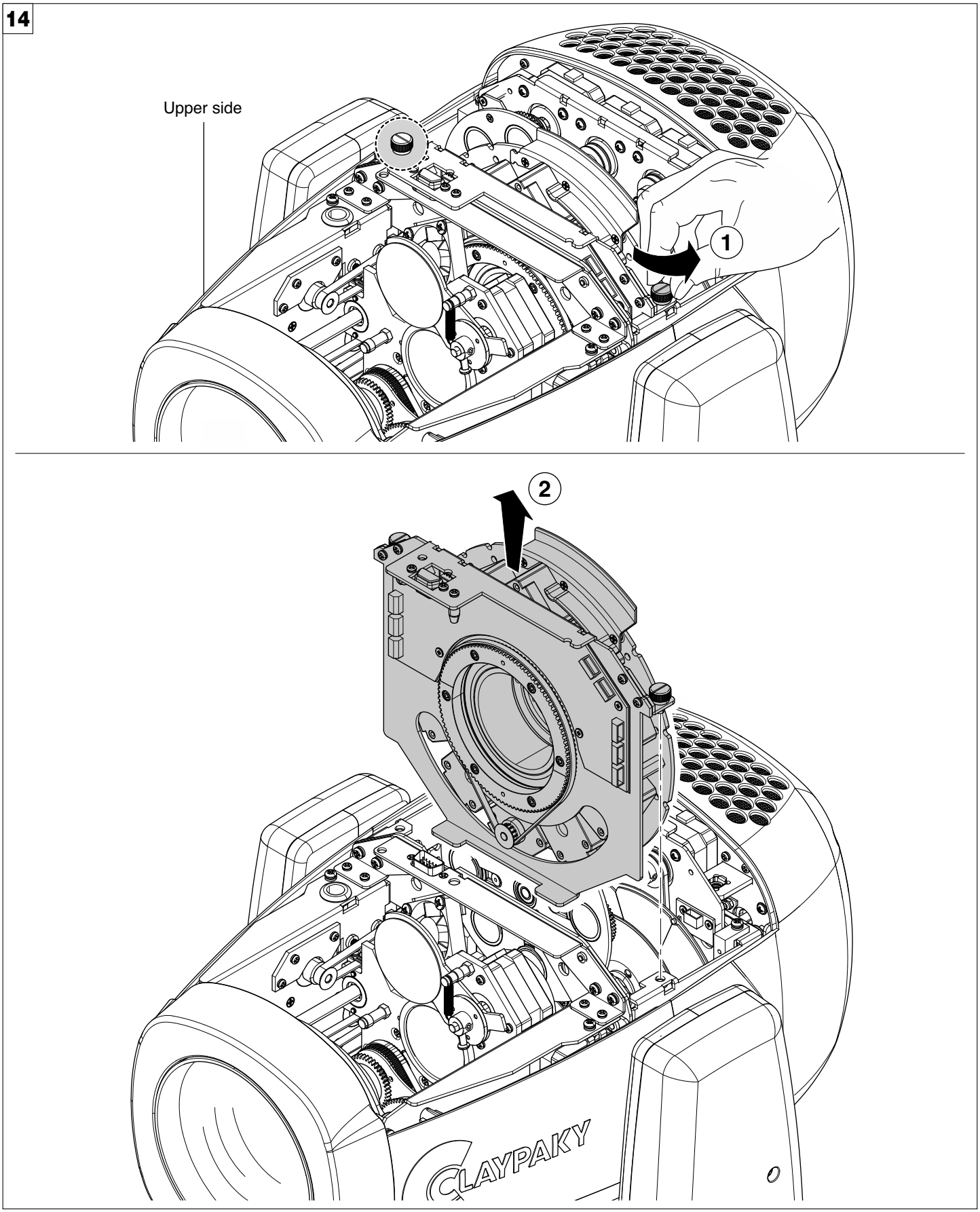
Use a soft cloth dampened with any detergent liquid for cleaning glass to remove the dirt from the reflectors, from the lenses and filters. It is recommended that the projector undergoes an annual service by a qualified technician for special maintenance involving at least the following operations:

- General cleaning of internal parts.
- Restoring lubrication of all parts subject to friction, using lubricants specifically supplied by Claypaky.
- General visual check of the internal components, cabling, mechanical parts, etc.
- Electrical, photometric and functional checks; eventual repairs.

Continue →

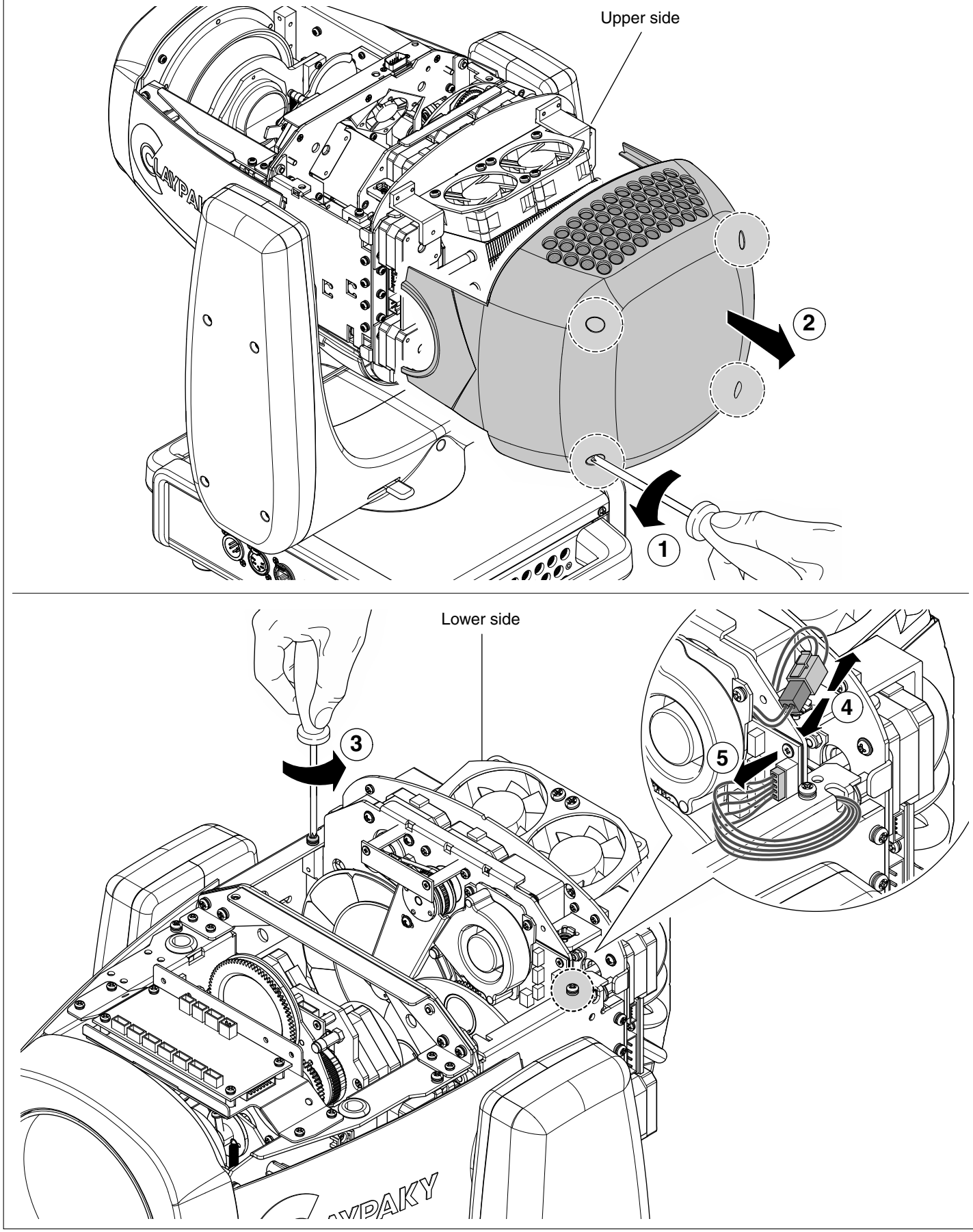
4.3 Effects module removal

14



Extraction of the effect modules - Fig. 14.
IMPORTANT: Grasp the modules using the support structure and not the details which could get damaged.
Insertion of the effect modules: Repeat the operations indicated in Fig. 14, 15 and 16 in reverse order.

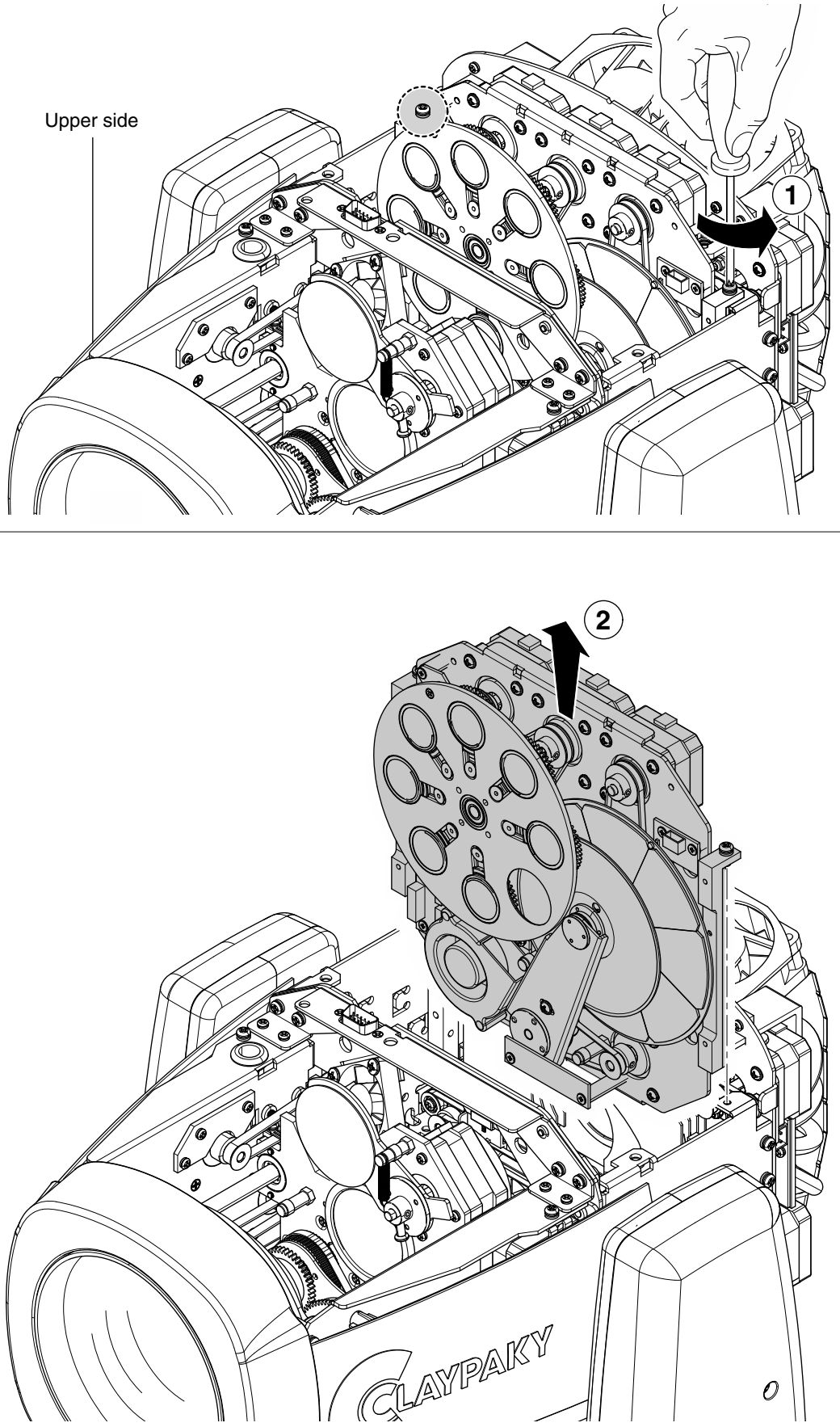
15



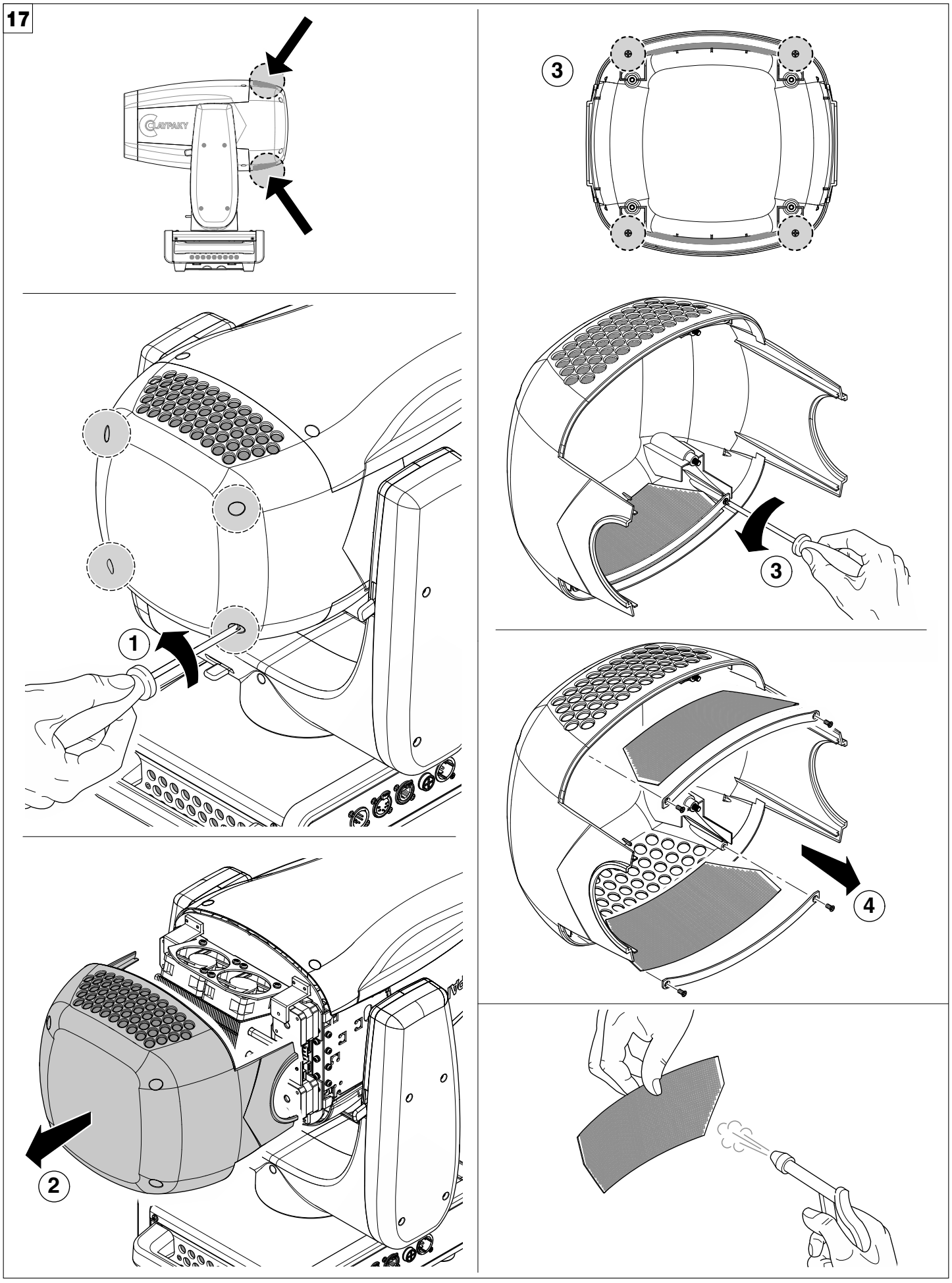
Extraction of the effect modules - Fig. 15.
IMPORTANT: Grasp the modules using the support structure and not the details which could get damaged.
Insertion of the effect modules: Repeat the operations indicated in Fig. 14, 15 and 16 in reverse order.

Continue →

16



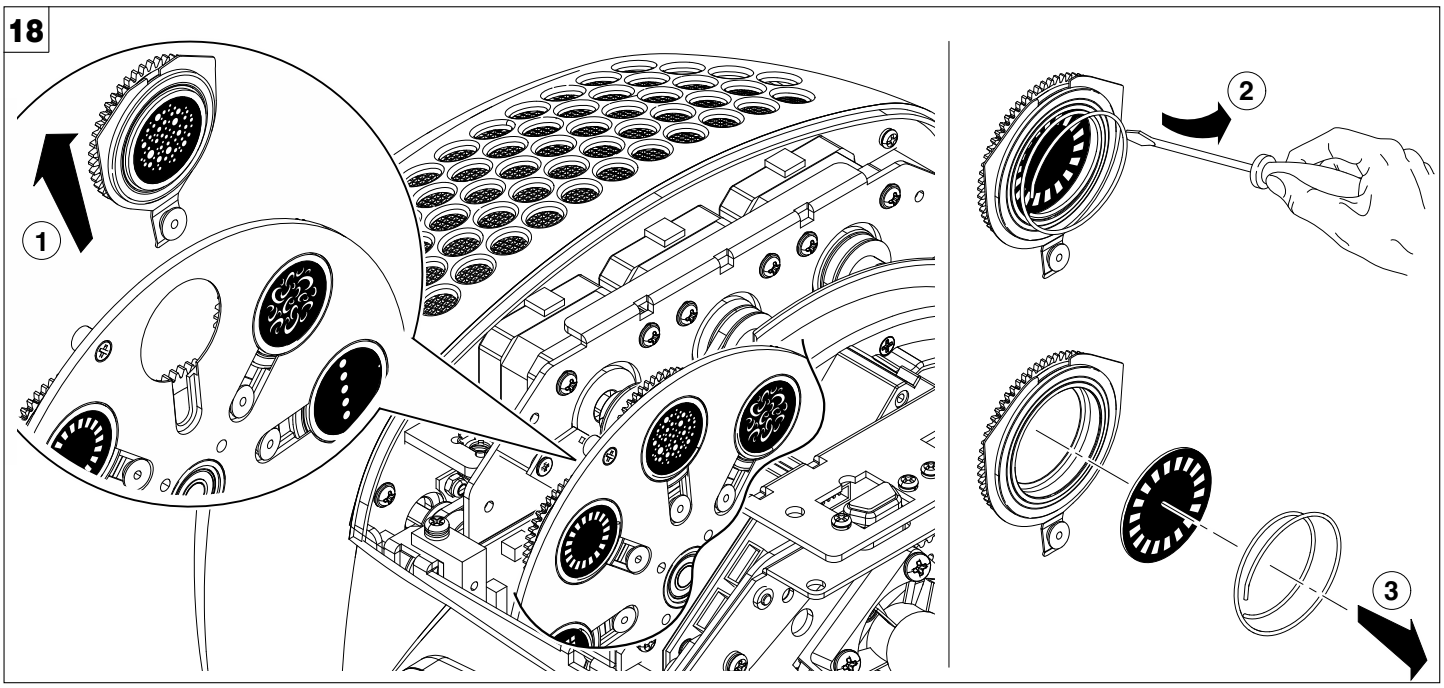
Extraction of the effect modules - Fig. 16.
IMPORTANT: Grasp the modules using the support structure and not the details which could get damaged.
Insertion of the effect modules: Repeat the operations indicated in Fig. 14, 15 and 16 in reverse order.



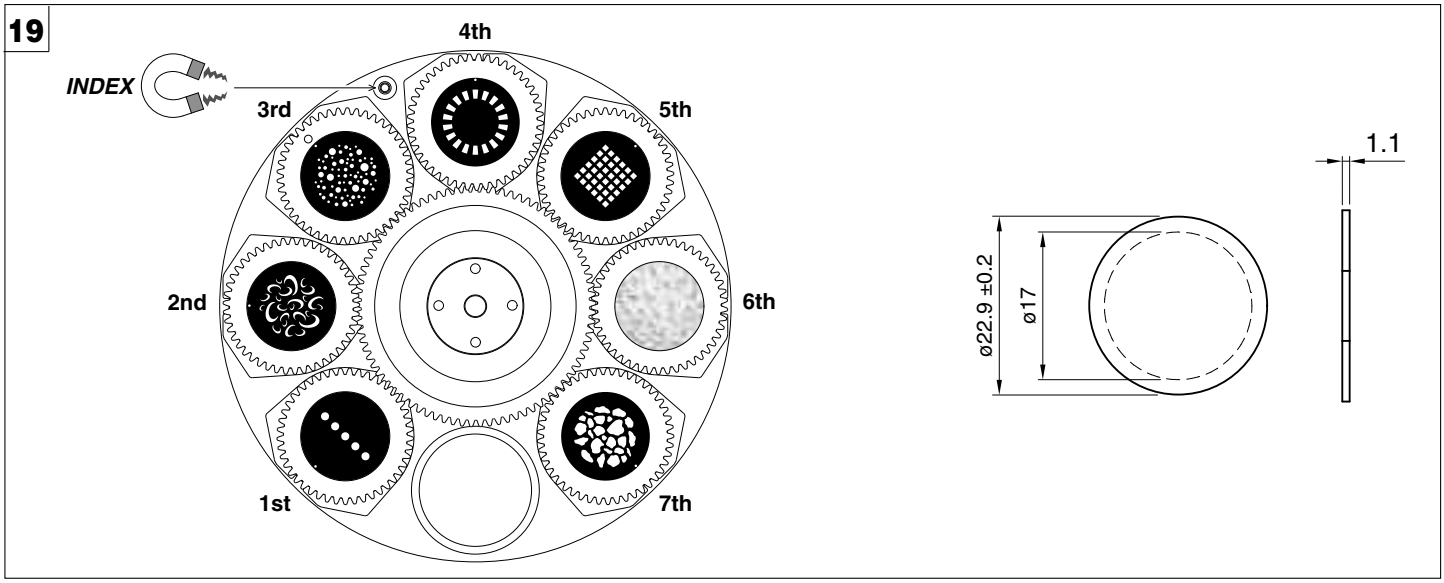
Cleaning of the grids - Fig. 17.

Continue →

4.4 - Rotating gobos

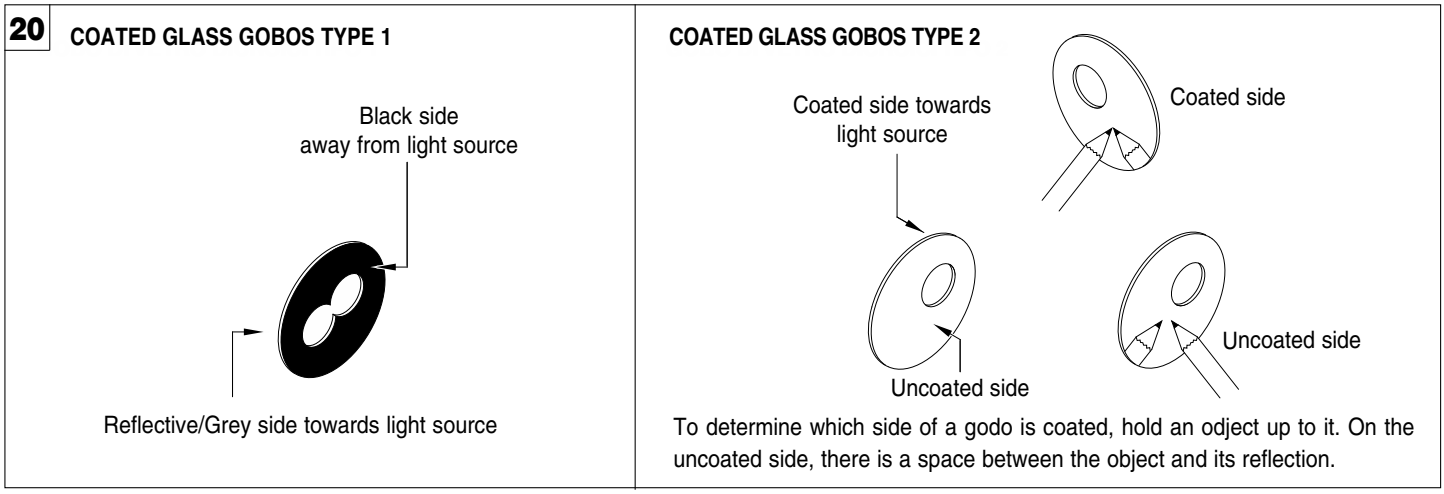


Bearing group replacement - Fig. 18



Replacing rotating gobos (ø 22.9 mm – max 17 mm image – thickness 1.1 mm) - Fig. 19

- **The rotating gobo wheel only use dichroic glass gobos (it is not possible to use metal gobos);**
- **For more information contact Claypaky;**

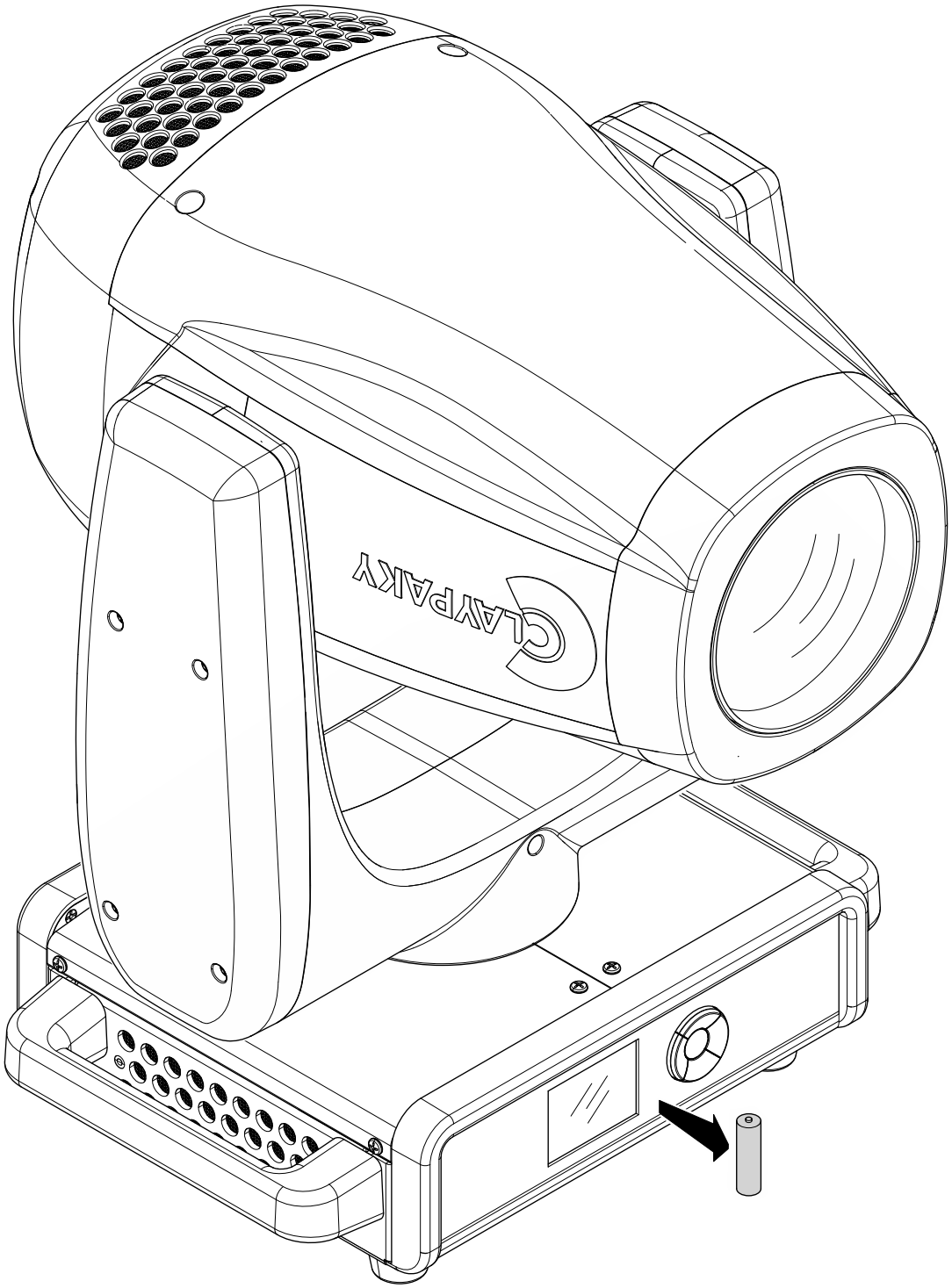


Gobo orientation - Fig. 20

The pictures shown the correct gobos orientation.

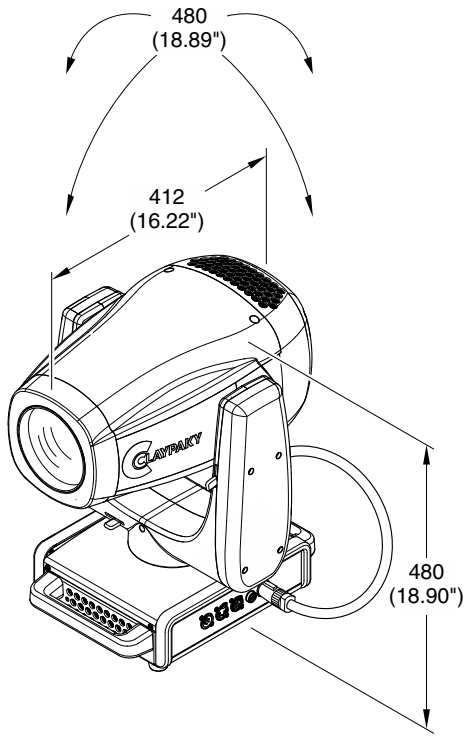
4.5 - Battery removal

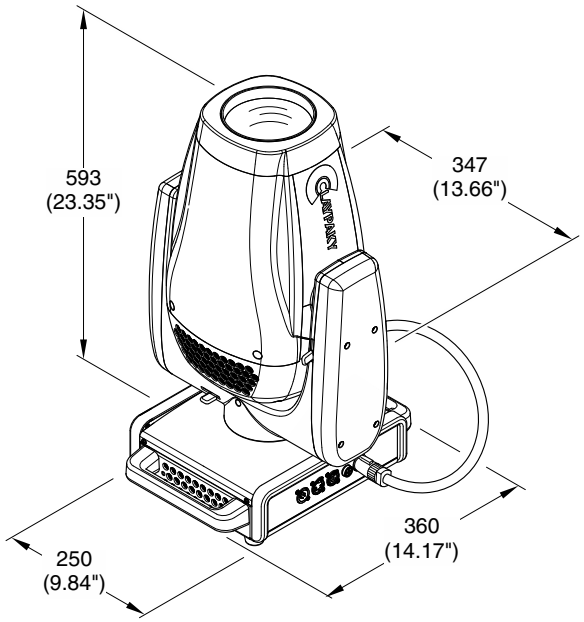
21



This product contains a rechargeable battery. To preserve the environment, please dispose the battery at the end of its life according to the regulation in force.

5. DIMENSIONS





6. CAUSE AND SOLUTION OF PROBLEMS

THE PROJECTOR WILL NOT SWITCH ON	ELECTRONICS NON-OPERATIONAL	DEFECTIVE PROJECTION	REDUCED LUMINOSITY	***POSSIBLE CAUSES***	***CHECKS AND REMEDIES***
●				No mains supply.	Check the power supply voltage.
●			●	Light source exhausted or defective.	Call an authorised technician.
	●			Signal transmission cable faulty or disconnected.	Replace the cables.
	●			Incorrect addressing.	Check addresses (see instructions).
	●			Fault in the electronic circuits.	Call an authorised technician.
		●		Lenses broken	Call an authorised technician.
		●	●	Dust or grease deposited.	Clean (see instructions).

IST02C/001 – EN - PRELIMINARY 01/2021

Arolla Profile MP
User menu

10/2021

USER MENU GUIDE

IMPORTANT: Please note all the default setting are highlighted in a grey color.

SETUP

Main Menu	*Level 1*	*Level 2*	*Level 3*	*Choices / Values*
SETUP	DMX Address	→	→	001 - 512
	Ethernet Interface	Protocol	→	Disable Art-Net sACN
		Custom IP Address	IP address byte 1 IP address byte 2 IP address byte 3 IP address byte 4	0 - 255 0 - 255 0 - 255 0 - 255
		Custom IP Mask	IP mask byte 1 IP mask byte 2 IP mask byte 3 IP mask byte 4	0 - 255 0 - 255 0 - 255 0 – 255
		Universe	→	000 – 255
		Start Channel	→	001 – 512
		Ethernet to DMX	→	No
				Yes

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OPTION

Main Menu	Level 1	Level 2	Level 3	Choices / *Values*
OPTION	Pan / Tilt	Invert Pan	→	On / Off
		Invert Tilt	→	On / Off
		Swap Pan-Tilt	→	On / Off
		Encoder Pan-Tilt	→	On / Off
		P/T Homing mode	→	Standard Sequenced
		Pan Home Def Pos	→	0 degree 90 degrees 180 degrees 270 degrees
		Tilt Home Def Pos	→	0 % 12.5 % 25 % 50 % 75 % 87.5 % 100 %
		P/T Smooth	→	On / Off
	Color	Color Mixing	→	RGB / CMY
		Fix Wheel Shortcut	→	On / Off
	CMY Speed	→	→	Normal / Fast
	Dimmer curve	→	→	Curve 1 Curve 2 Curve 3 Curve 4
	Display	→	→	On / Off
	Fan Mode	→	→	Auto SLN Theatre RNR Standard
	PWM Frequency	→	→	600Hz 1200Hz 2000Hz 4000Hz 6000Hz 20000Hz
	Setting	Default Preset	→	Reset To Default Go Back
		User Preset 1	→	Load preset 1 Save to preset 1
		User Preset 2	→	Load preset 2 Save to preset 2
		User Preset 3	→	Load preset 3 Save to preset 3

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INFORMATION

Main Menu	Level 1	Level 2	Level 3	Choices / *Values*
INFORMATION	System Errors	→	→	Read / Reset
	Fixture Hours	Total Hours	→	Read only
		Partial Hours	→	Reset / Go Back
	LED Hours	Total Hours	→	Read only
		Partial Hours	→	Reset / Go Back
	System Version	DISP	→	Fw. rev.
		NET	→	Fw. rev.
		CTR1-XY	→	Fw. rev.
		CTR2-MOTOR	→	Fw. rev.
		CTR3-MOTOR	→	Fw. rev.
		CTR4-MOTOR	→	Fw. rev.
		CTR5-MOTOR	→	Fw. rev.
	DMX Monitor	Functions	→	*DMX in value (BIT)*
	Fans Monitor	BASE Fan	→	Percentage %
		LED Fan	→	Percentage %
	Network parameters	→	→	IP Address
		→	→	IP Mask
		→	→	MAC Address
	UID	→	→	UID: xxxxxxxxxxxx

MANUAL CONTROL

Main Menu	Level 1	Level 2	Level 3	Choices / *Values*
MANUAL CONTROL	Reset	→	→	No / Yes
	Channels	→	→	Bit value

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TEST

Main Menu	Level 1	Level 2	Level 3	Choices / *Values*
TEST	→	→	→	Pan / Tilt
	→	→	→	Colour
	→	→	→	Beam
	→	→	→	Gobos
	→	→	→	Shutter
	→	→	→	All

ADVANCED

Main Menu	Level 1	Level 2	Level 3	Choices / *Values*
ADVANCED	Access Code 1234	Upload Firmware	→	Yes / No
		Calibration	Effect selection	000 - 255
		Menu Locking	→	1234
		Recover	→	Yes / No

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SET UP MENU

Setup → DMX Address

Important: Without the input signal, the displayed DMX Address blinks.
It lets you select the DMX address for the control signal. A DMX address between 001 and 512 can be selected.

Setup → Ethernet Interface

It lets you set Ethernet settings to be assigned to the projector as indicated below:

Protocol
It let you assign Protocol

Custom IP Address
It lets you assign the IP Address according to the used control unit.

Custom IP Mask
It lets you assign the Subnet Mask according to the used control unit.

Universe
It lets you assign a Universe to a series of fixtures. Values between 000 and 255.

Start Channel
It lets you set the Art-Net start address for the fixture. Values between 001 and 512.

Ethernet to DMX
It lets you enable or disable the transmission of the Ethernet protocol by the DMX line. When activated the master unit transfer the DMX data to all the connected fixtures:

- NO: DMX data transmission disabled.
- YES: DMX data transmission enabled.

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OPTION MENU

Option → PAN / TILT

INVERT PAN
It lets you enable (ON) the Pan reverse movement. Select OFF to turn off or disable this option

INVERT TILT
It lets you enable (ON) the Tilt reverse movement. Select OFF to turn off or disable this option.

SWAP PAN-TILT
It lets you enable (ON) Pan and Tilt parameters inversion (and simultaneously Pan fine and Tilt fine). Select OFF to turn off or disable this option.

ENCODER PAN-TILT
It lets you enable (ON) or disable (OFF) the Pan and Tilt Encoder functionality.

P/T HOMING MODE
It lets you set the initial Pan and Tilt Reset mode.
- **Standard**: Pan & Tilt are simultaneously reset.
- **Sequenced**: Tilt is reset first followed by Pan.

PAN HOME DEF POS
It lets you assign the Pan parameter “home” position at the end of Reset (without a DMX input signal), selecting one from the 4 available positions:
- **0 degree**
- **90 degrees**
- **180 degrees**
- **270 degrees**

TILT HOME DEF POS
It lets you assign the Tilt parameter “home” position at the end of Reset (without a DMX input signal), selecting one from the 7 available positions:
- **0%**
- **12.5%**
- **25%**
- **50%**
- **75%**
- **87.5%**
- **100%**

P/T SMOOTH
It lets you set (ON) a more linear ramp in and ramp out of the Pan & Tilt movement.
With OFF the function is not active and the Pan&Tilt are more fast.

Option → COLOR

COLOR MIXING
It lets you set the CMY color mixing system:
- **RGB** color mixing mode (Red Green Blue), at 0-bit value the CMY filters are inserted into the beam.
- **CMY** color mixing mode (Cyan Magenta Yellow), at 0-bit value the CMY filters are excluded.

FIX WHEEL SHORT-CUT
Used to optimize the change time of fixed color wheel, selecting ON the static color wheel turns in the direction that requires the shorter movement when you select a color position. Select OFF to disable the option.

Option → CMY Speed

It lets you select two different CMY filters movement speed:
- **Normal**
- **Fast**

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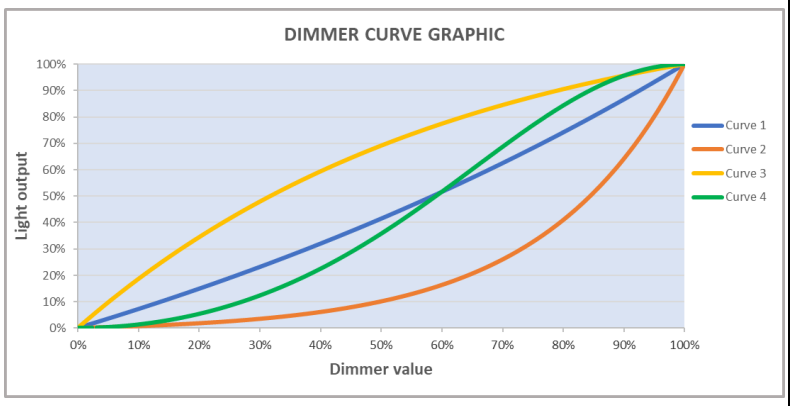
OPTION MENU

Option → DIMMER CURVE

It lets you select four different Dimmer curves:

- **Curve 1**
- **Curve 2**
- **Curve 3**
- **Curve 4**



Option → DISPLAY

It lets display brightness reduction automatically after 30 seconds in idle status (OFF). Select ON, display keeps on.

Option → FAN MODE

Defines the fixture cooling mode:

- **Auto**: Light output always at 100% depending on temperature. Fans run at lowest speed possible unless fixture is running hot.
- **SLN** (Silent): Light output starts at 100% and go down to 40%. Fans will go to lowest speeds when depending on fixture temperature.
- **Theatre**: Light output always at 40%, constant fan speed.
- **RNR** (Rock&Roll): Light output at 100%. Fan at maximum speed.
- **Standard**: Light output at 85%. Fan at constant speed.

Option → PWM FREQUENCY

Lets you select one of six different base frequencies of LEDs available:

- 600Hz
- 1200Hz
- 2000Hz
- 4000Hz
- 6000Hz
- 20000Hz

Option → SETTINGS

Used to save 3 different settings of the items in the option menu and relevant submenus.

- Default preset (*)
- User preset 1
- User preset 2
- User Preset 3

- **Load preset 'X'** is used to recall a previously stored configuration.
- **Save to preset 'X'** is used to save the current configuration.

IMPORTANT:
(*) DEFAULT PRESET It lets you restore default values on all option menu items and relevant submenus.

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INFORMATION MENU

Information → SYSTEM ERRORS

It displays the list of errors that occurred when the projector is been turned on.
To reset the SYSTEM ERRORS list, press OK. A confirmation message appears (Are you sure you want to clear error list?) Select YES to confirm the reset.

Information → FIXTURE HOURS

It lets you view the fixture's working hours (total and partial).

Total counter
It counts the number of fixtures working life hours (from construction to date). Note: This value cannot be reset.

Partial counter
It counts the partial number of projectors working life hours from the last reset to date.
Press **OK** to reset the partial counter. A confirmation message appears on the display: Select **Reset** to confirm or **Go Back** to undo the operation.

Information → LED HOURS

It lets you view LED working hours (total and partial).

Total counter
It counts the number of projectors working hours with the LED turned on (from construction to date). Note: This value cannot be reset.

Partial counter
It counts the partial number of LED working hours from the last reset to date.
Press **OK** to reset the partial counter. A confirmation message appears on the display: Select **Reset** to confirm or **Go Back** to undo the operation.

Information → SYSTEM VERSION

It lets you view the firmware version for each electronic board in the projector:

- DISP:----------Vx.x
- NET:----------Vx.x
- CTR1-XY:----------Vx.x
- CTR2-Motor:---------- Vx.x
- CTR3-Motor:----------Vx.x
- CTR4-Motor:----------Vx.x
- CTR5-Motor:----------Vx.x

Information → DMX Monitor

It lets you view the levels of DMX parameters in bits that the fixture is receiving.

Information → FANS Monitor

It lets you view the function's percentage of the fan installed in the fixture:
Base Fan cooling → Base Fan: x%
LED fan cooling → Led Fan: x%

Information → Network parameters

It lets you view the Ethernet setting of the fixture:
IP address: Internet Protocol address (two projectors must not have the same IP address)
IP mask: 255.0.0.0
Mac address: Media Access Control; the fixture's Ethernet Address

Information → UID

It shows the RDM Unique ID (UID), the exclusive address of the fixture to communicate via RDM.

MANUAL CONTROL MENU

Manual Control → Reset

It lets you reset the fixture's parameters from the user menu.

Manual Control → Channel

It lets you control the DMX parameters from the fixture's user menu. For any single parameter can be set the level between 0 and 255 bits.

TEST MENU

Test

It lets you perform a test of the fixture's effects by a pre-saved sequence:

- Pan and Tilt test sequence
- Colour test sequence
- Beam test sequence
- Gobo test sequence
- Shutter test sequence
- All effects test sequence

ADVANCED MENU

IMPORTANT: To access the Advanced Menu enter the code 1234.

Advanced → Upload Firmware

It lets you transfer the firmware from one fixture to all the other connected to the same line. A confirmation message will appear on the display "Are you sure?" Select YES to confirm or NO to abort the operation.
IMPORTANT: We recommend to upload the firmware to a maximum 5/6 units per time.

Advanced → Calibration

It lets you from the control panel to make a fine electronics adjustment of some effects to get a better consistency within a group of fixtures.

Advanced → MENU LOCKING

It allows you to assign a password to lock the access to the ADVANCED menu to avoid any wrong setting or operation by people there are not from the technical staff. The default Unlock Code is: 1234
IMPORTANT: If necessary to reset any custom code go to Option → Setting → Default Preset → Reset to default, it will set all the default setting and restore the coder to 1234.

Advanced → Recover

The recover function allow to restore the functionality of the electronic boards following a fail during the firmware update process of the fixture. Please refer to the "Recover function" tech document for the detail of the procedure.

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Arolla Profile MP

Photometrics

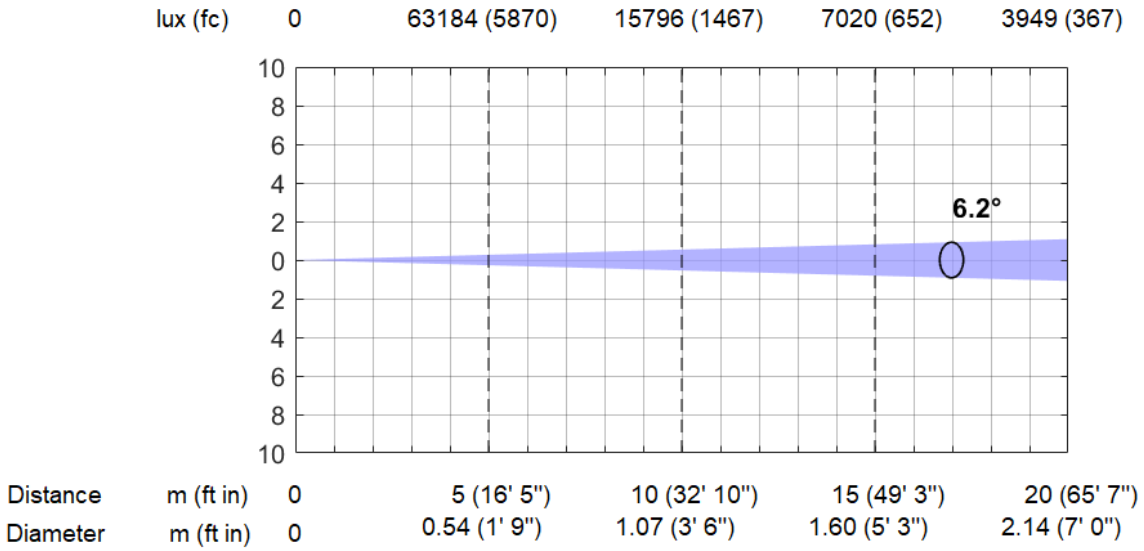
03/2021

***Lumen values detected with integrating sphere**

Minimum Zoom

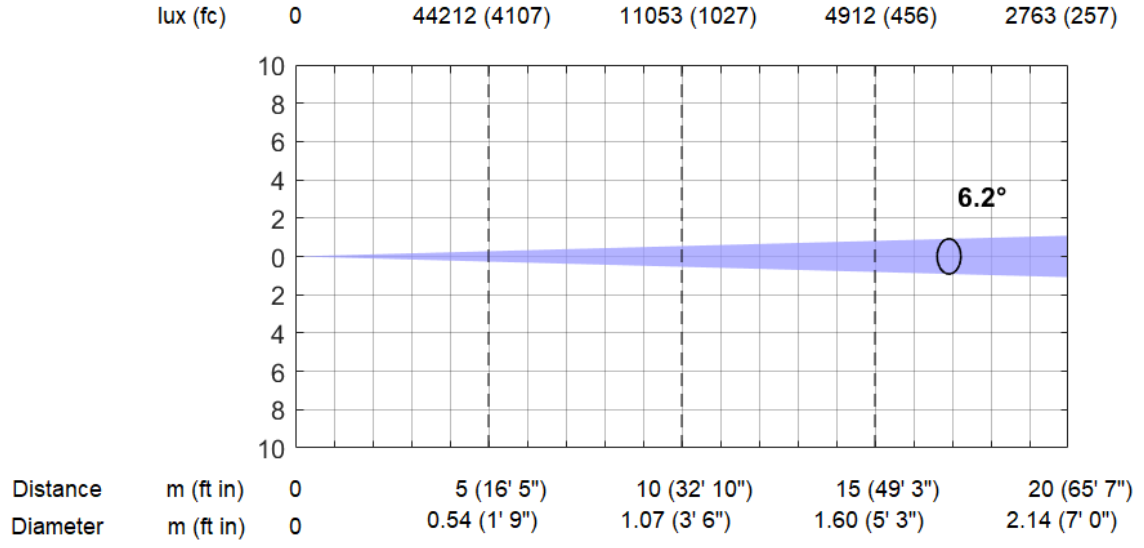
Auto Fan Mode, Min. Zoom (6.2°)

Total Output: 13859 lumens



SLN Fan Mode, Min. Zoom (6.2°)

Total Output: 9737 lumens



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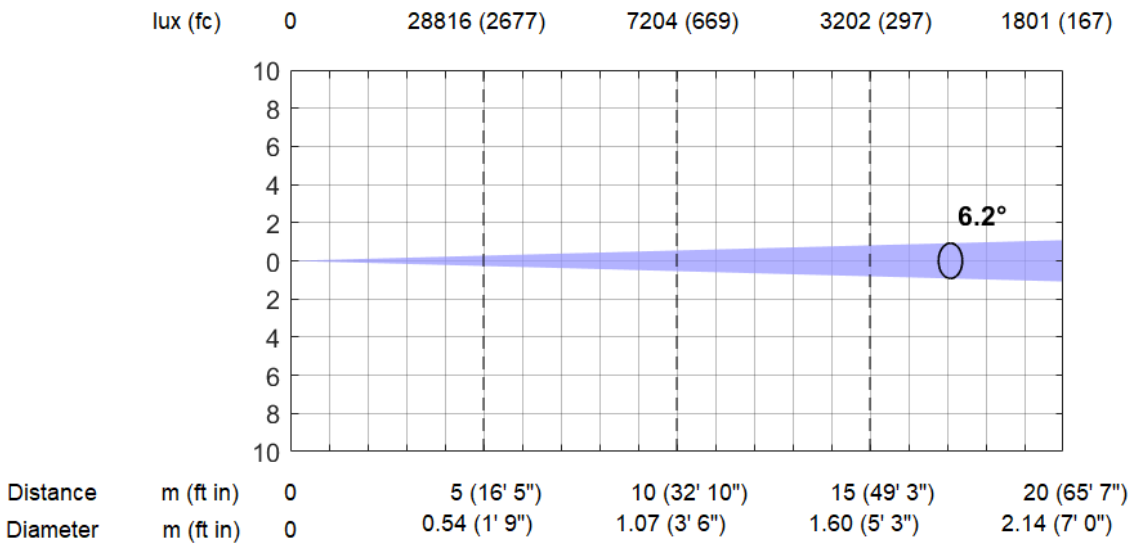
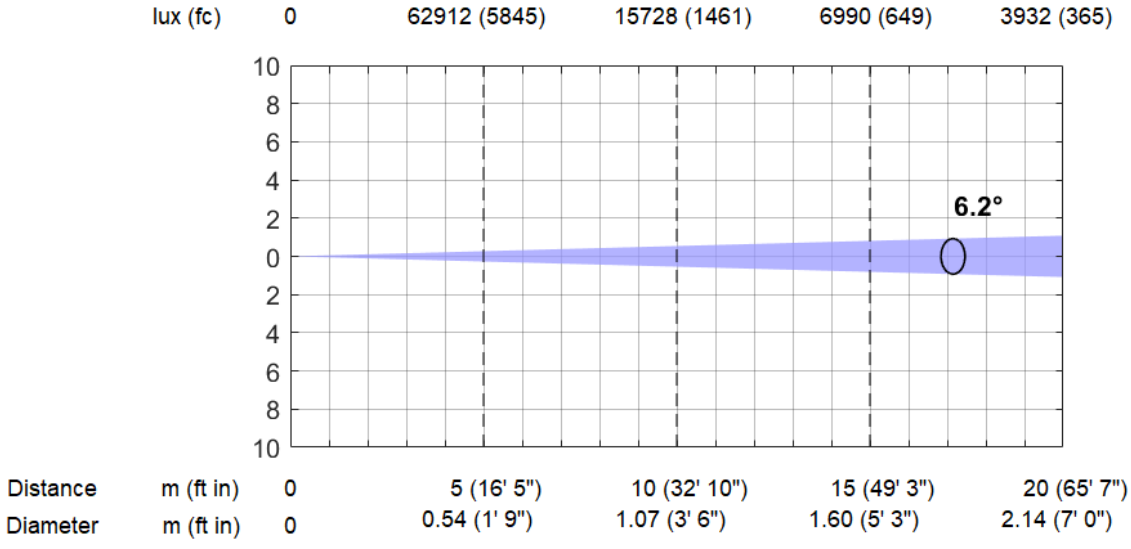
Theatre Fan Mode, Min. Zoom (6.2°)

Total Output: 6326 lumens



Constant Fan Mode, Min. Zoom (6.2°)

Total Output: 13824 lumens



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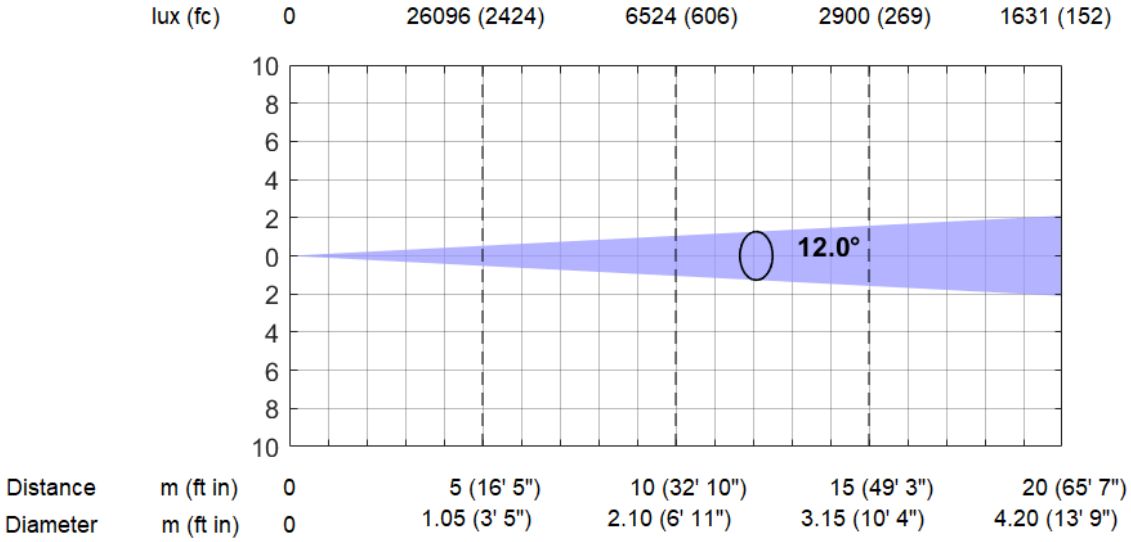
Zoom @ 12°

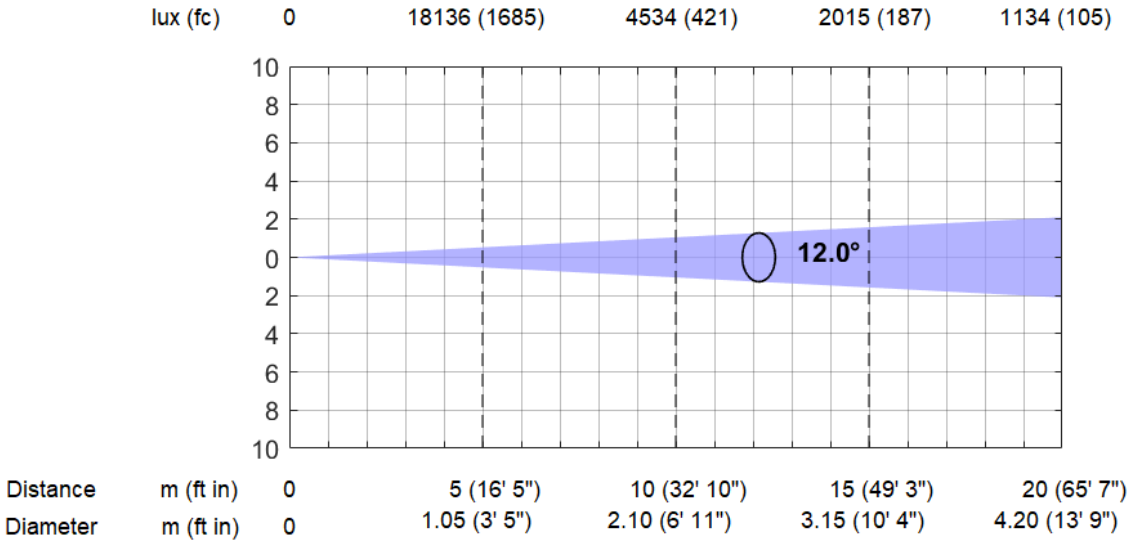
Auto Fan Mode @12° (12°)

Total Output: 20641 lumens



SLN Fan Mode @12° (12°)

Total Output: 14401 lumens



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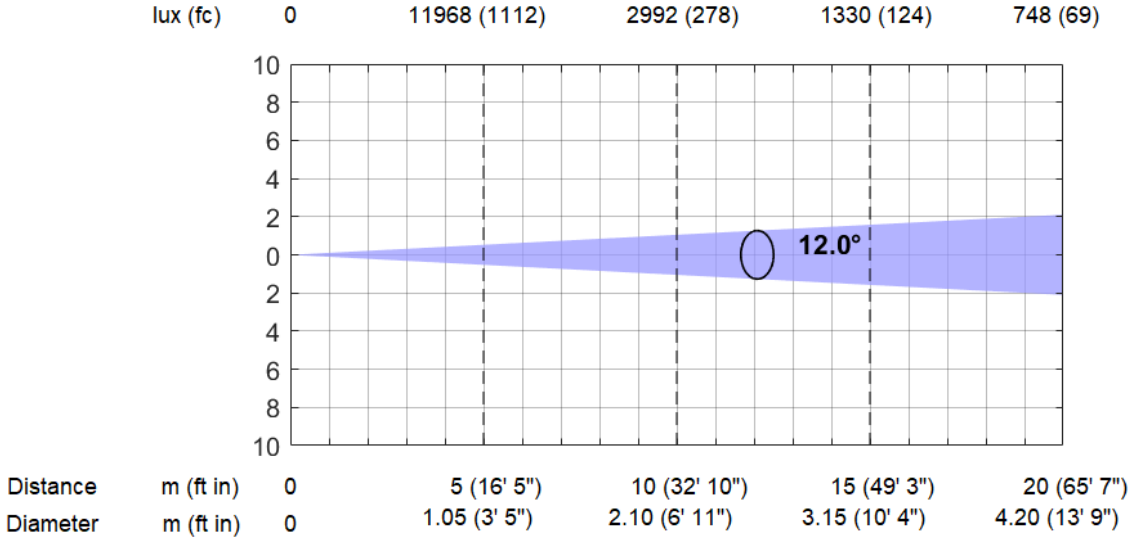
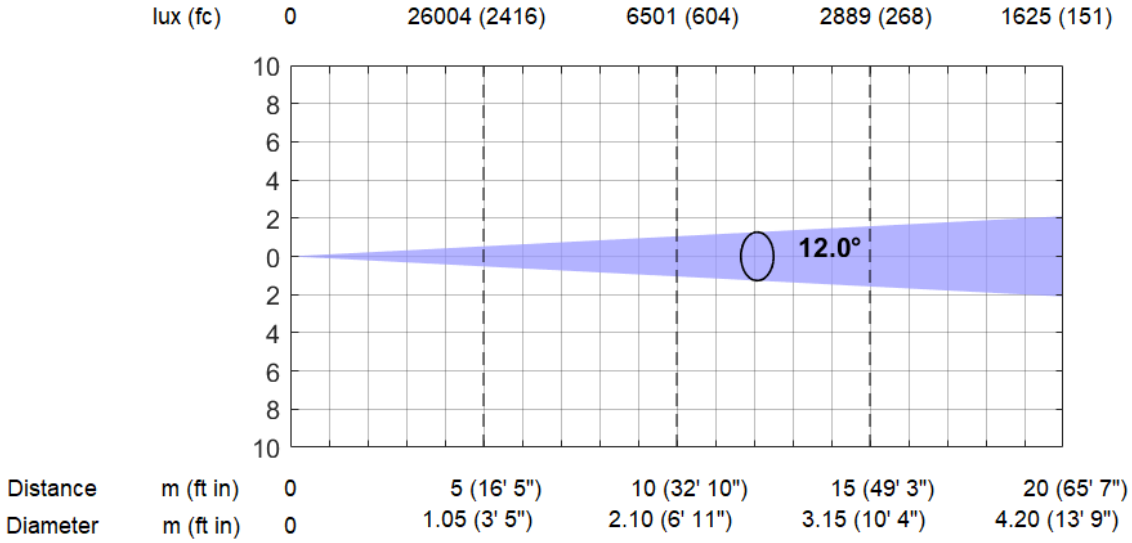
Theatre Fan Mode @12° (12°)

Total Output: 9515 lumens



Constant Fan Mode @12° (12°)

Total Output: 20576 lumens



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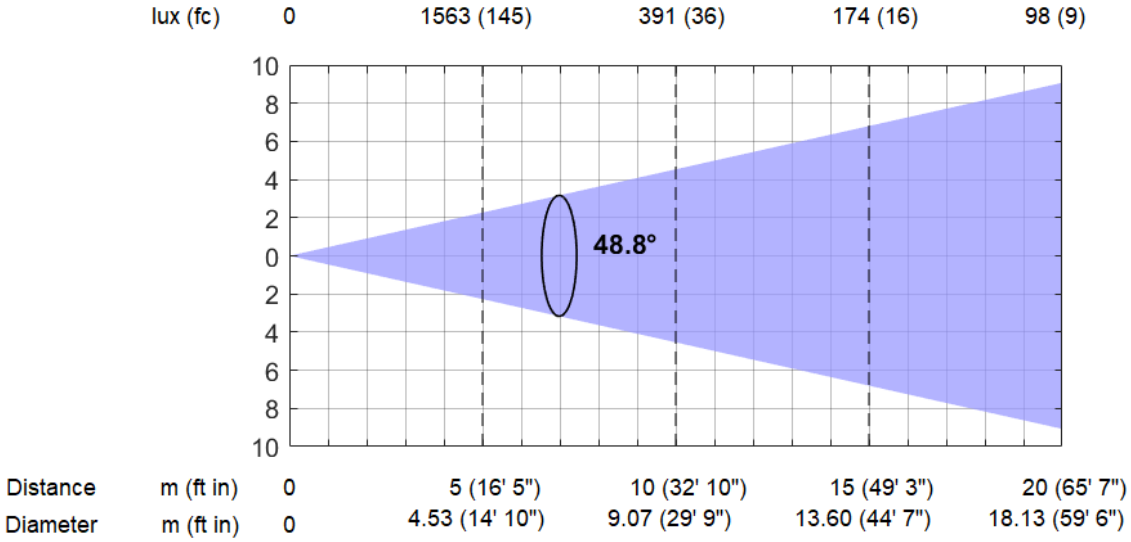
Maximum Zoom

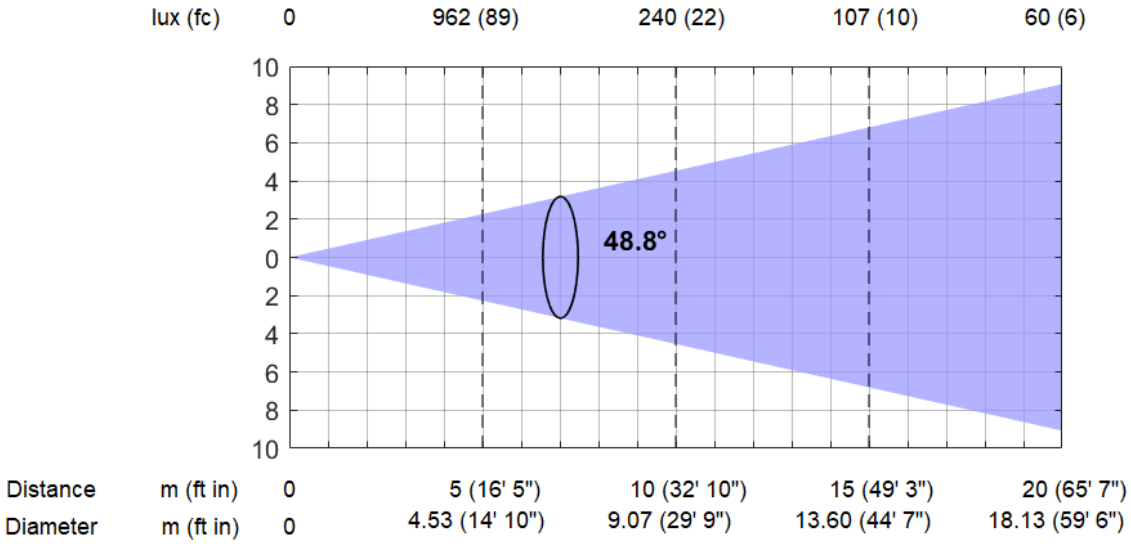
Auto Fan Mode, Max. Zoom (48.8°)

Total Output: 22054 lumens



SLN Fan Mode, Max. Zoom (48.8°)

Total Output: 14134 lumens



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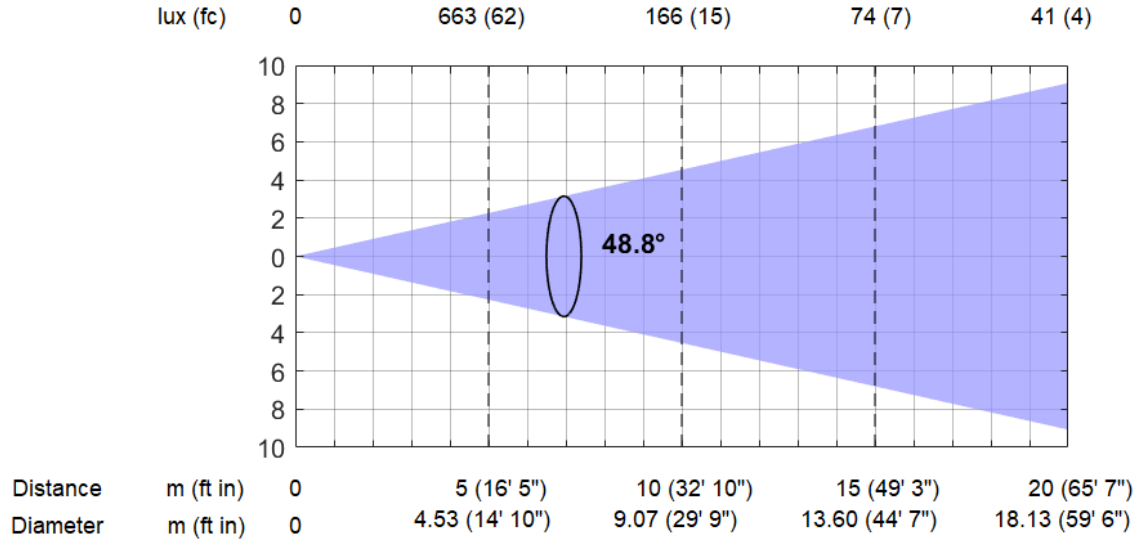
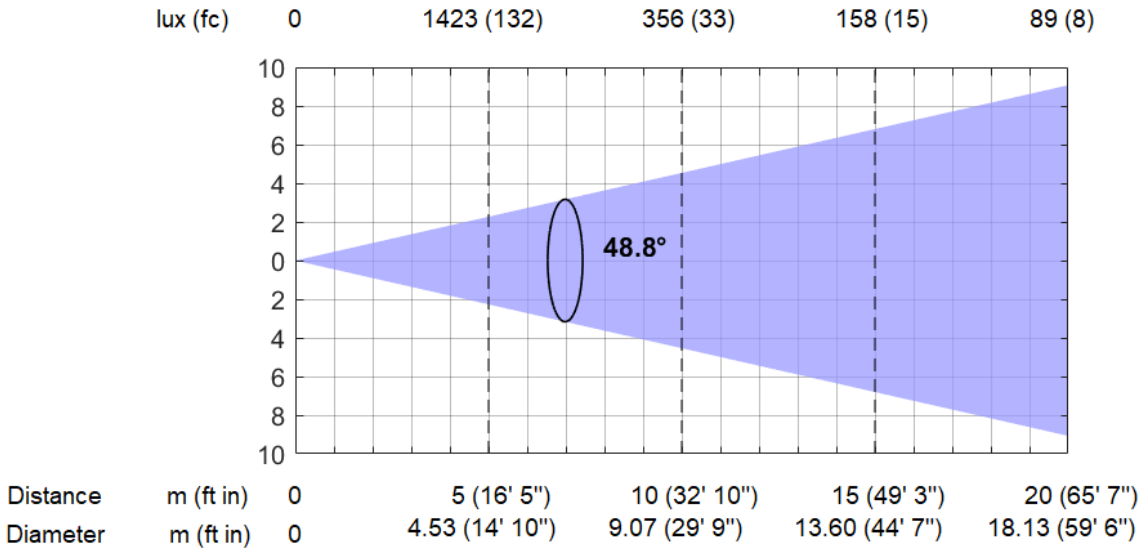
Theatre Fan Mode, Max. Zoom (48.8°)

Total Output: 9634 lumens



Constant Fan Mode, Max. Zoom (48.8°)

Total Output: 20590 lumens



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