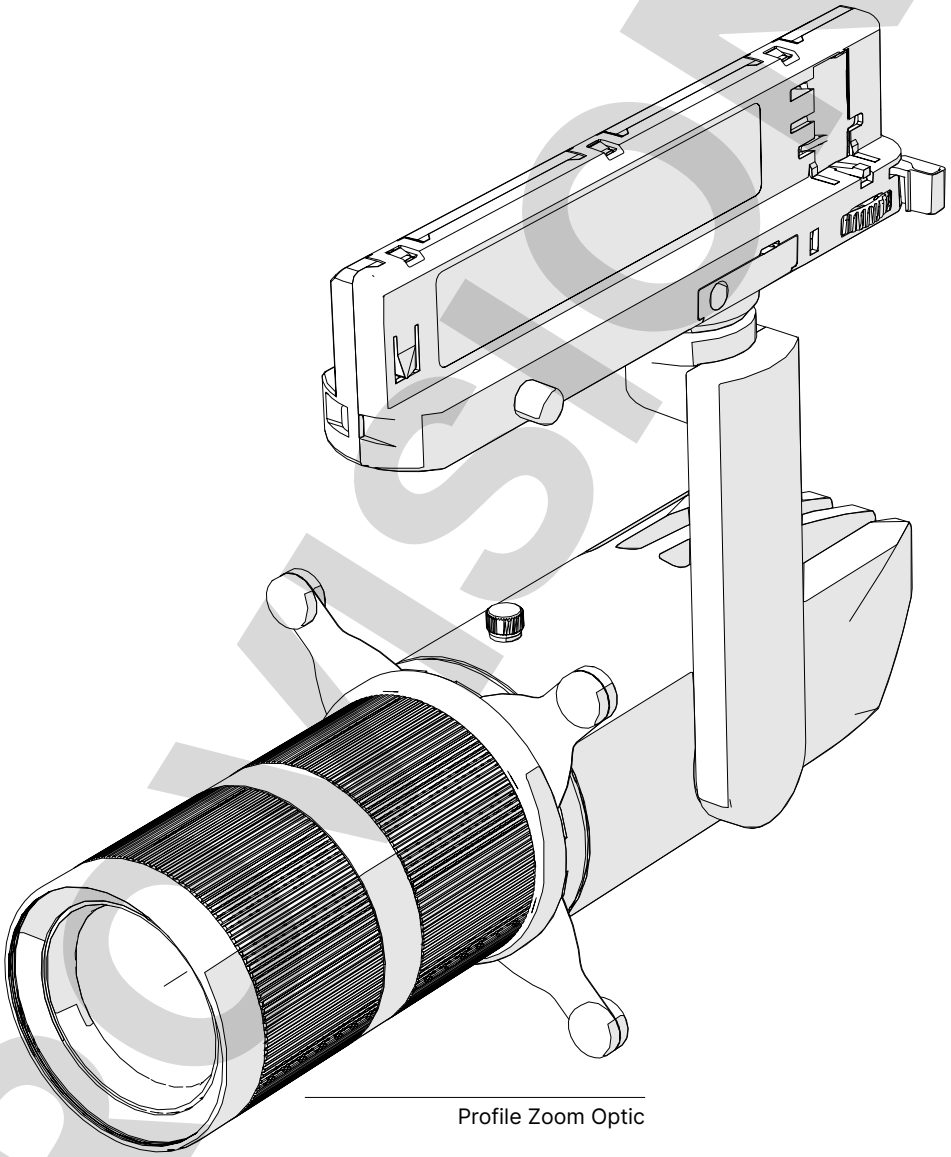
iMagine

Series



Profile Zoom Optic

PROVISIONAL

USER MANUAL

vrs. 1.1 - 29.07.2025

coemar

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Congratulations on having purchased a **Coemar** product. You have assured yourself of a fixture of the highest quality, both in componentry and in the technology used. We renew our invitation to you to complete the service information on the previous page, to expedite any request for service information or spares (in case of problems encountered either during, or subsequent to, installation). This information will assist in providing prompt and accurate advice from your **Coemar** service centre. Following the instructions and procedures outlined in this manual will ensure the maximum efficiency of this product for years to come.

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1. Packaging and transportation

1.1 Packaging

Open the packaging and make sure that no part of the equipment has suffered any damage during the transportation. In case of damage to the fixture, contact your currier and your supplier immediately by telephone, fax or e-mail, and inform them you will formally notify them in writing through registered letter.

Packing list

Ensure the packaging contains:

1 iMagine

1 Instruction manual

Various accessories as per request

1.2 Transportation

The **iMagine** should be transported in either its original packaging or in an appropriate flight case.

2. General information

2.1 Safety informations

Fire prevention:

1. Never locate the fixture on any flammable surface.
2. Minimum distance from flammable materials: 0,5 m.
3. Minimum distance from the closet illuminable surface: 0,5 m.
4. Connect the projector to mains power protected by a thermal magnetic circuit breaker.

Prevention from electric shock:

1. Presence of high voltage inside of the fixture. Insulate the projector from mains supply before opening or performing any function which involves touching the inside of the fixture, including LED replacement.
2. For the connection to the mains, adhere strictly to the guidelines outlined in this manual.

3. The level of technology of **iMagine** requires the use of specialised personnel for all service applications; refer all work to your authorised **Coemar** service centre.
4. A good earth connection is essential for the proper functioning of the projector. Never connect the fixture if there is no earth connection.
5. Mains cables must not come into contact with other cables.
6. Do not operate the projector with wet hands or in an area where water is present.
7. The fixture must never be located in an exposed position, or in areas of extreme humidity.

Safety:

1. The projector must always be installed with bolts, clamps, or other fixing devices which are suitably rated to support the weight of the projector.
2. Always use a secondary safety fixing device with chain or steel wire of a suitable rating to sustain the weight of the unit in case of failure of the principal fixing point.
3. The external surfaces of the unit, at various points, may reach 60°C. Never handle the unit until at least 10 minutes have elapsed since the LED was turned off.
4. Never install the fixture in an enclosed area lacking sufficient air flow; the ambient temperature must not exceed 40°C.
5. The projector contains electronic and electrical components which must under no circumstances be in contact with water, oil or any other liquid. Failure to do so will compromise the proper functioning of the projector.

2.2 Warranty conditions

1. The fixture is under warranty for 24 months from the purchase date against factory defections.
2. Damage ought to unskillfulness, inappropriate use, or lack of suggested maintenance are excluded from the warranty.
3. Warranty expires when the projector is opened by unauthorized personnel.
4. Warranty doesn't include the replacement of the fixture.
5. Serial number and model of the fixture are necessary to retrieve informations and assistance from the dealer.

2.3 EC Norms

1. The fixture satisfies the essential requirements of the EU directive 2014/30/UE, 2014/35/UE, 2011/65/EU, 2015/863/EU, 2012/19/EU.
2. The fixture is in accordance with the standard 2011/65/EU and 2015/863/EU (RoHS2) and satisfies the requirements of the directive 2012/19/EU (WEEE).

3. Product specifications

3.1 Technical characteristics

Power supply	90-240 Vac, auto-sensing, 50/60 Hz
Max power consumption	20 W
LED Source	Fixed White Tunable White RGBWW
LED Source Luminous Flux	1.713 lm @Tc25 °C, 1.600 lm @Tj85 °C (Profile Zoom + Wash) R: 278 lm, G: 659 lm, B: 143 lm, W: 810 lm (CCT 3.850~4.100 K), WW: 770 lm (CCT 2.200~2.300 K) @ Ta25°C
CCT	3.000 K (**Tungsten**) 5.600 K (**Daylight**) (available on request 2.700 K, 3.500 K, 4.000 K, 5.000 K, 6.500 K) 2.700 K → 6.500 K (**VariWhite**)
Color Rendering Index (CRI)	CRI > 95
Weight	Profile Zoom Optics vrs. 1.58 kg (3.48 lbs), Wash Zoom optic vrs. 1.04 kg (2.29 lbs), Wash optics vrs. 0.98 kg (2.16 lbs)
Ambient Operating Temperature	0°C → +40°C (32°F → 104°F)
IP rating	IP20

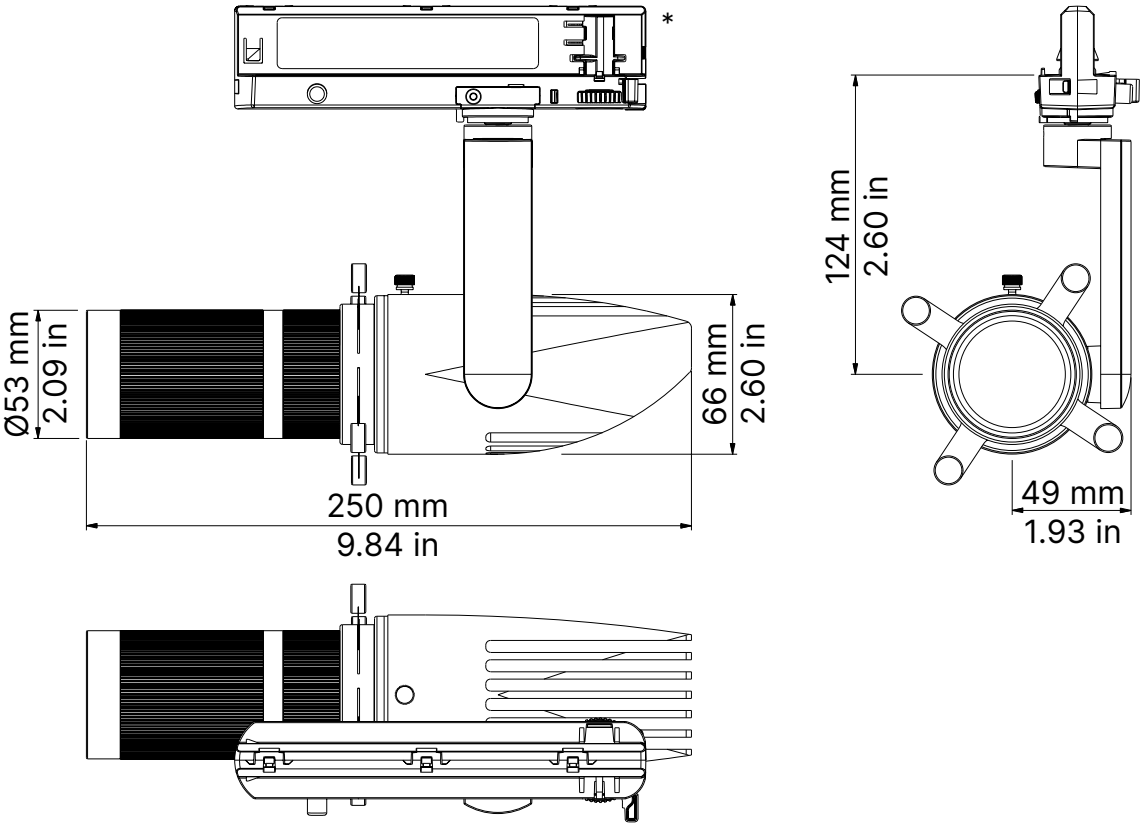
3.2 Available Versions

Series		Versions	Optic	Barrel	Mounting	Controls
iMagine	F119	Wash	Wash 5°, 10°, 15°, 20°, 30° or 40°	Integrated Barrel with 4 Shutter Blades (Profile Zoom version)	Track	DMX512
			Wash Zoom 10°-50°		Canopy	DALI
		Profile	Profile Zoom 18°-35°		Portable	Bluetooth
			Profile Zoom 25°-40°			Potentiometer
			Profile Zoom 50°-60°			On / Off
						On Board Potentiometer
						Wireless DMX
						Phase Cut
						Wireless Casambi

3.3 Dimensions

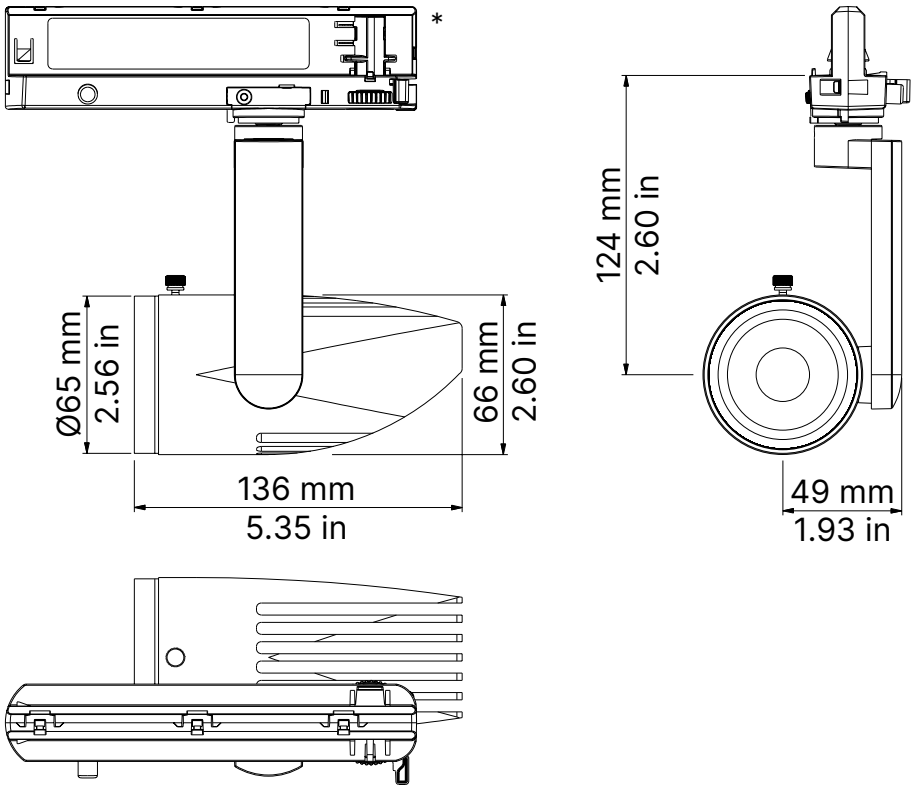
iMagine with Profile Zoom Optic

*Track version with potentiometer on-board



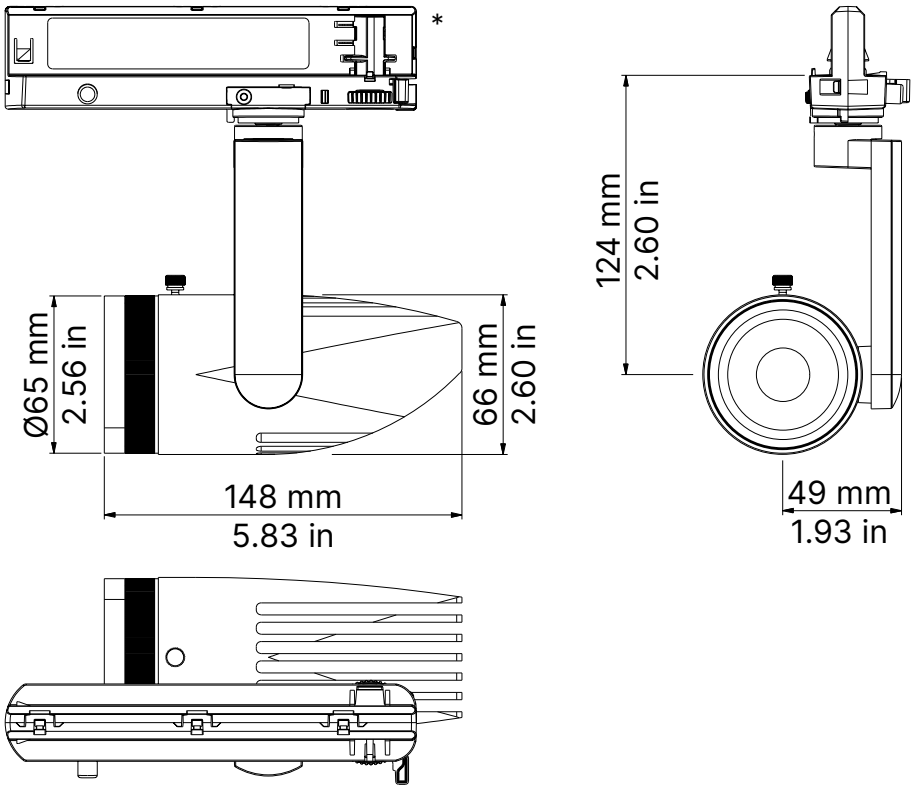
iMagine with Wash Optic

*Track version with potentiometer on-board



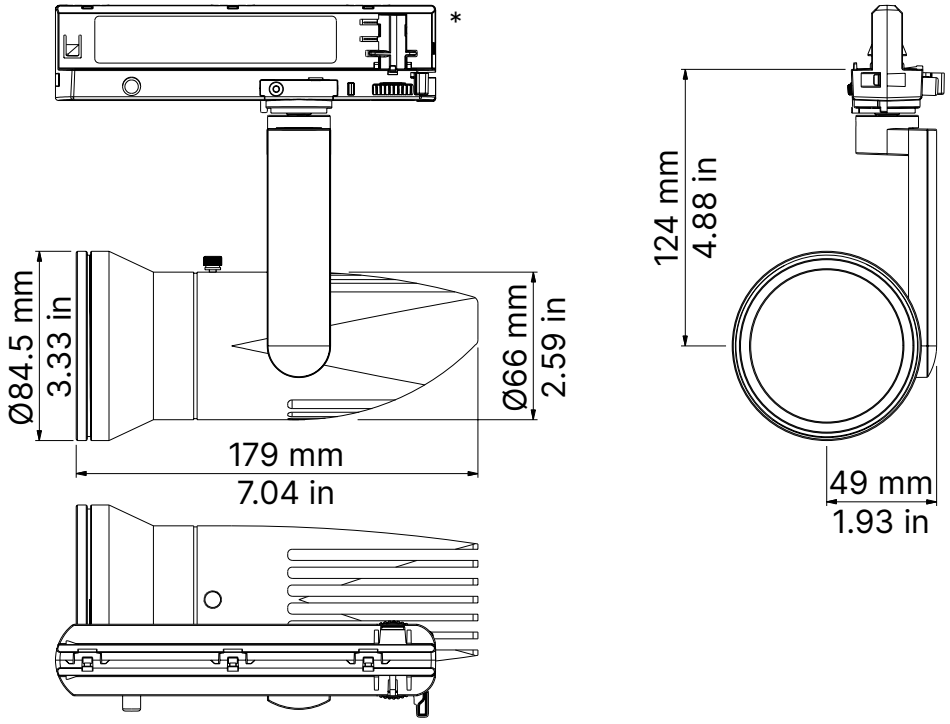
iMagine with Wash Zoom Optic

*Track version with potentiometer on-board

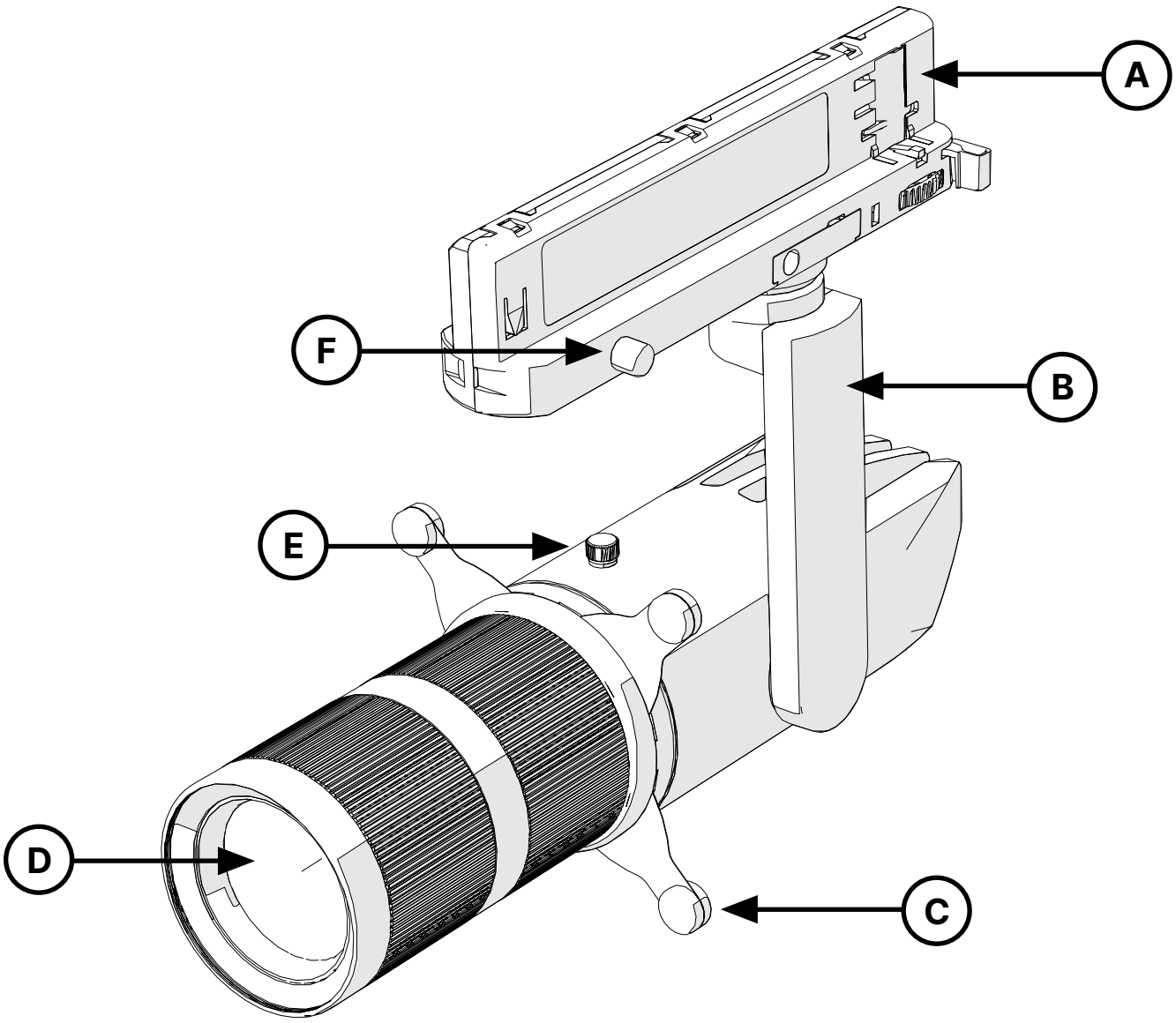


iMagine with 5° Wash Optic

*Track version with potentiometer on-board

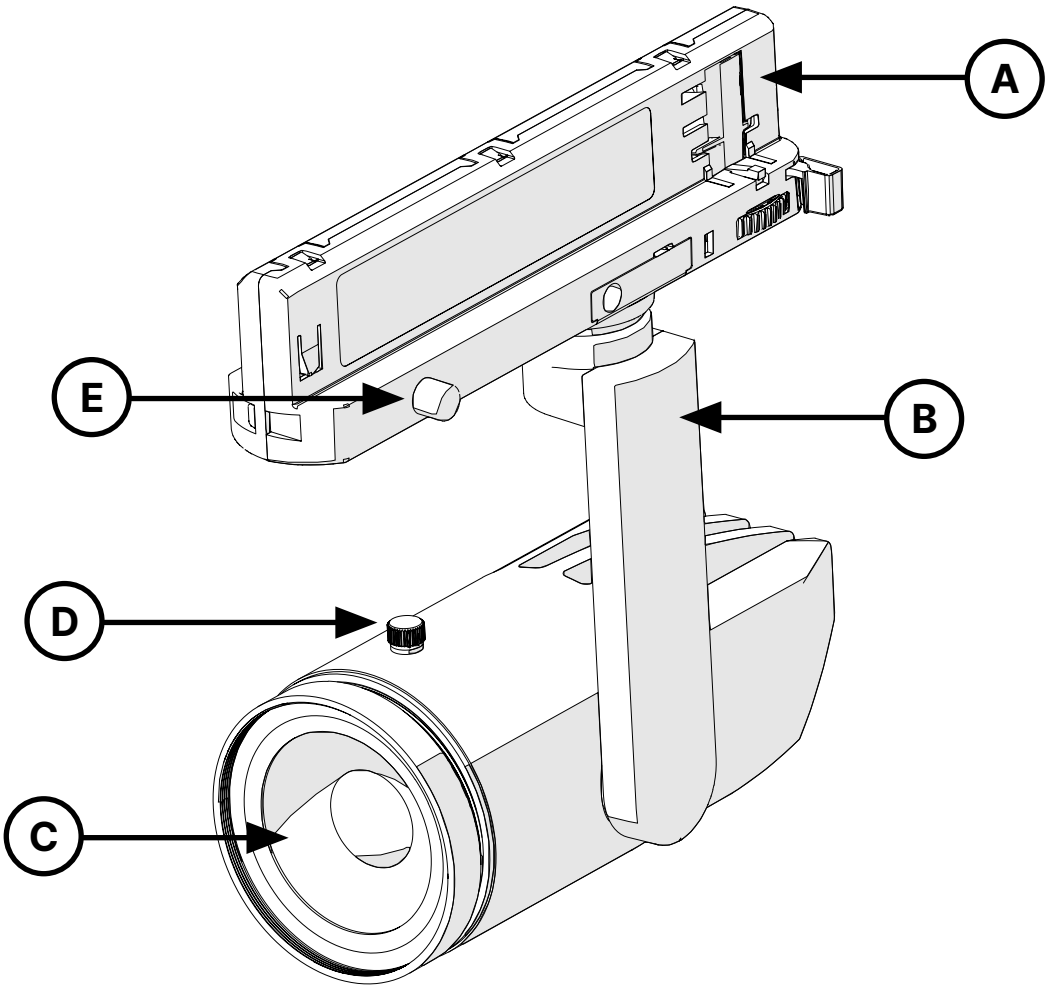


3.4 Unit’s main components - iMagine Profile Zoom Optic



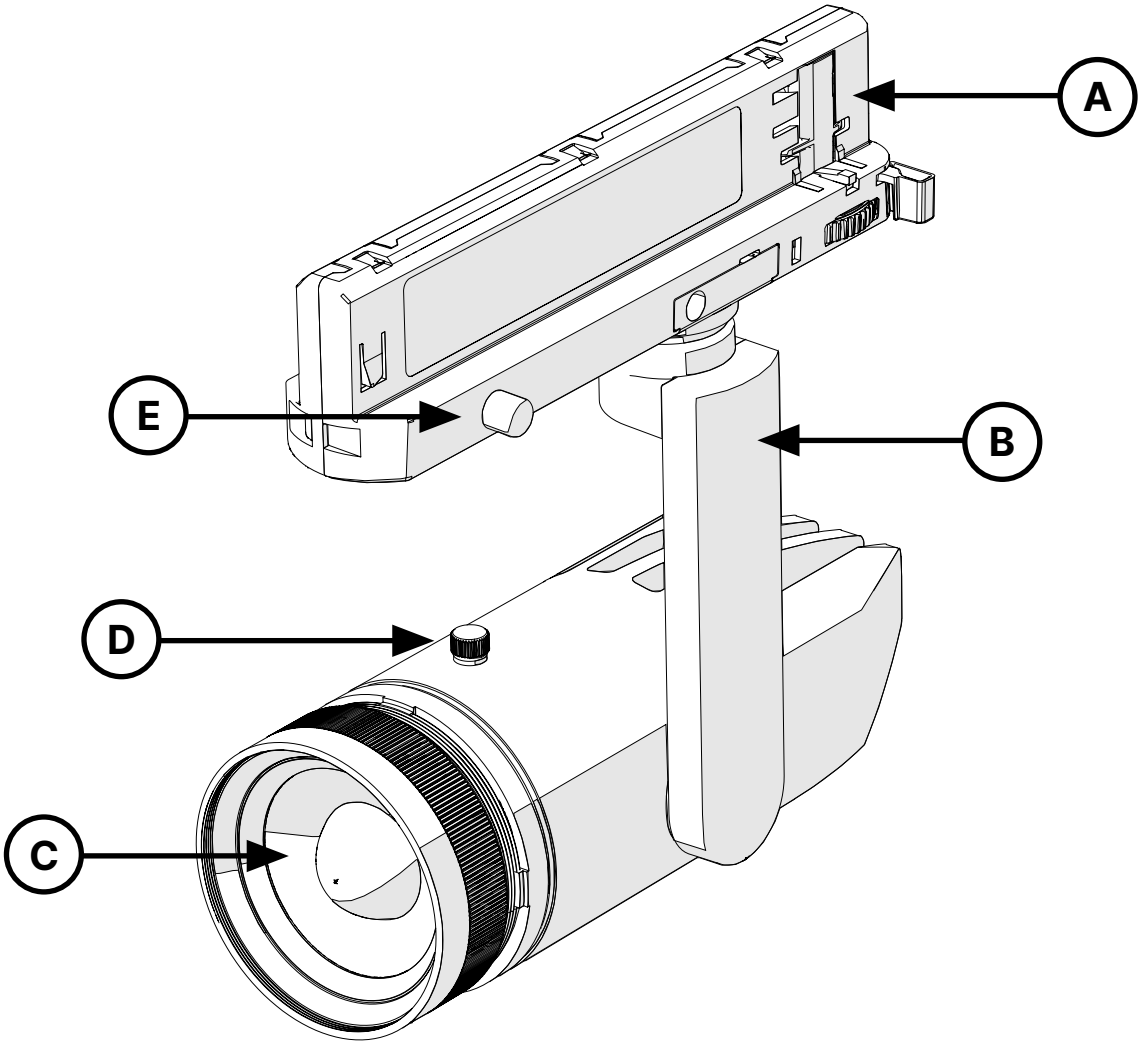
Components description	
A	Track
B	Adjustable yoke
C	Four blade framing system
D	Optic
E	Lens knob
F	Potentiometer knob

3.5 Unit’s main components - iMagine Wash Optic



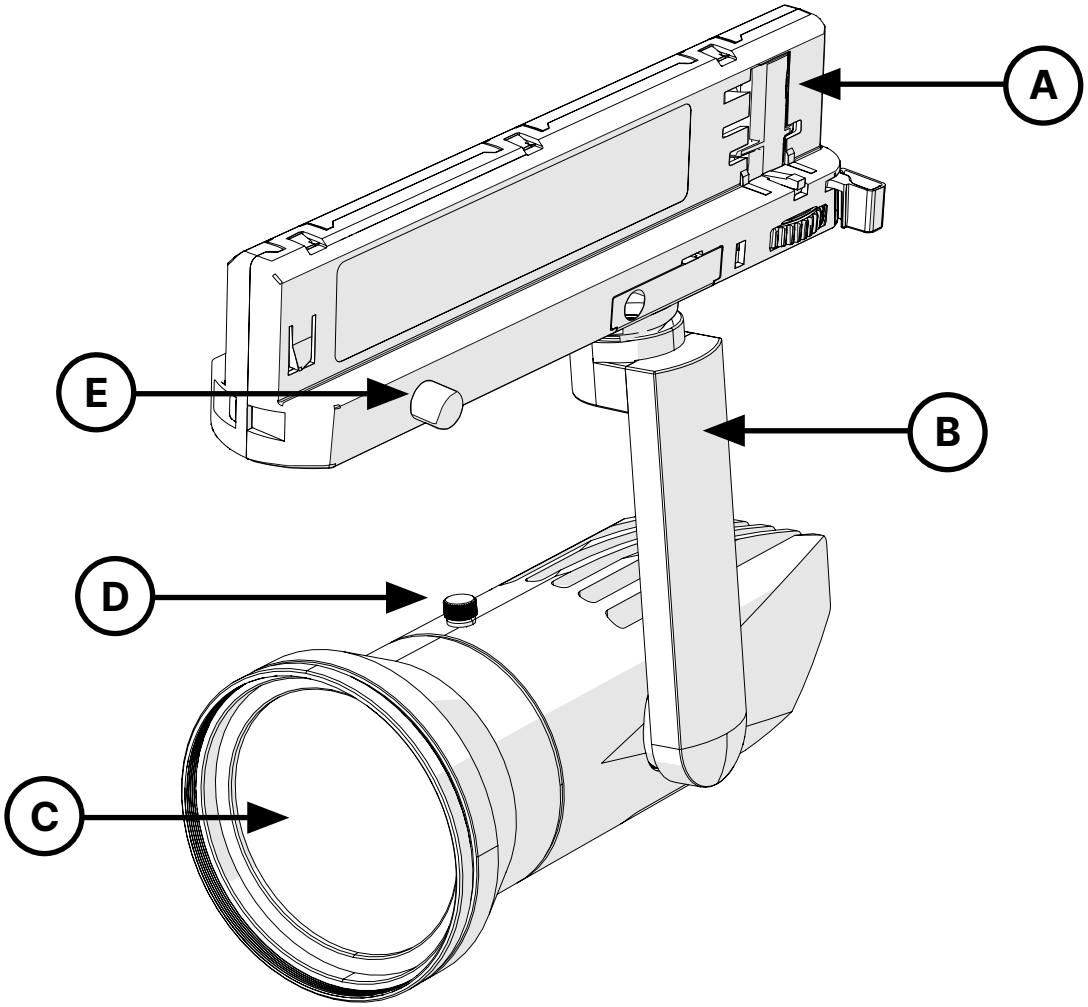
Components description	
A	Track
B	Adjustable yoke
C	Optic
D	Optic Knob
E	Potentiometer knob

3.6 Unit’s main components - iMagine Wash Zoom Optic



Components description	
A	Track
B	Adjustable yoke
C	Optic
D	Optic Knob
E	Potentiometer knob

3.7 Unit’s main components - iMagine 5° Wash Optic



Components description	
A	Track
B	Adjustable yoke
C	Optic
D	Optic Knob
E	Potentiometer knob

4. Installation

4.1 Mechanical installation

iMagine has three different hanging way: Track, Canopy and Portable.

- **Track:** For use with Track system.
- **Portable:** Includes a C-clamp, and has a permanently installed power cord. Region-specific connectors are available.
- **Canopy:** for wall or ceiling mounting

4.2 Compatible Track System - DALI, DMX versions - Table A

Manufacturer	Type	Model	System
Eutrac	One Track	575 2 1101 575 2 1102 575 2 1103 575 2 1104	3-phase + SIGNAL
Nordic Aluminium	Global Track pulse DALI	XTSC 6x00 XTSCF 6x00 x=1, 2, 3, 4	3-phase + SIGNAL
Powergear	3 Circuits DALI track system	PRO-06X0, 064000 PRO-R6x0, R6400 x=1, 2, 3	3-phase + SIGNAL
Stucchi	One Track Advance	9000A-.../...-ST 9000A-.../...-R	3-phase + SIGNAL
Targetti	Eurostandard Plus	9000A-.../...-ST 9000A-.../...-R	3-phase + SIGNAL

4.3 On/Off, On board potentiometer, Bluetooth App versions - Table B

Manufacturer	Type	Model	System
Eutrac	Surface Track	25-x0 x= 1, 2, 3, 4	3-phase
Ivela	3-phase LKM	7501-x0 x= 1, 2, 3, 4	3-phase
Nordic Aluminium	Global Track Pro	XTS 4x000 x= 1, 2, 3, 4	3-phase
Powergear	3 Circuit Track system	PRO-04x0 x= 1, 2, 3	3-phase

* On/Off, On board potentiometer, Bluetooth App versions products can also be switched on and powered by the tracks indicated in table A, but obviously they cannot be controlled or dimmed via a control signal.

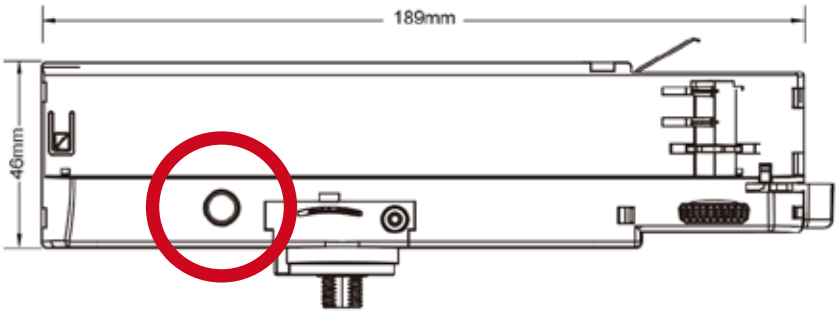
WARNING, note the following safety warnings before installing:

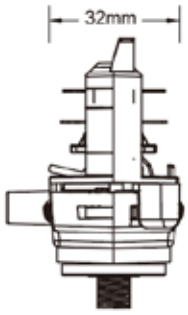
- **Use the luminaire in dry locations only, where humidity does not exceed 90 percent (non-condensing).**
- **Do not mount the luminaire on or near a flammable surface.**
- **Do not use this luminaire if a lens is deeply scratched or cracked. You must replace a lens when it is damaged.**

4.4 Integrated driver Track-mount version installation

This type of track-mounting option is available only with DMX, DALI, ON/OFF, potentiometer and Blue-tooth versions of iMagine.

1. Insert the DataTrack adapter into the track. The adapter only fits into the track one way with the tabs nesting into the track's groove.
2. Rotate the locking mechanism to lock the adapter into place (pay attention at the brass connecting slat are inside).
3. Use the circuit selection lock to select the circuit. The desired circuit number should point toward the center of the adapter.
4. *Pay attention, when the potentiometer knob is turned at the minimum the IMagine will **NOT** turn off completely but will remain at a **7% of the maximum luminous output**, if you want to turn it off rotate the circuit selection lock on the "0" or disconnect from the power plug.





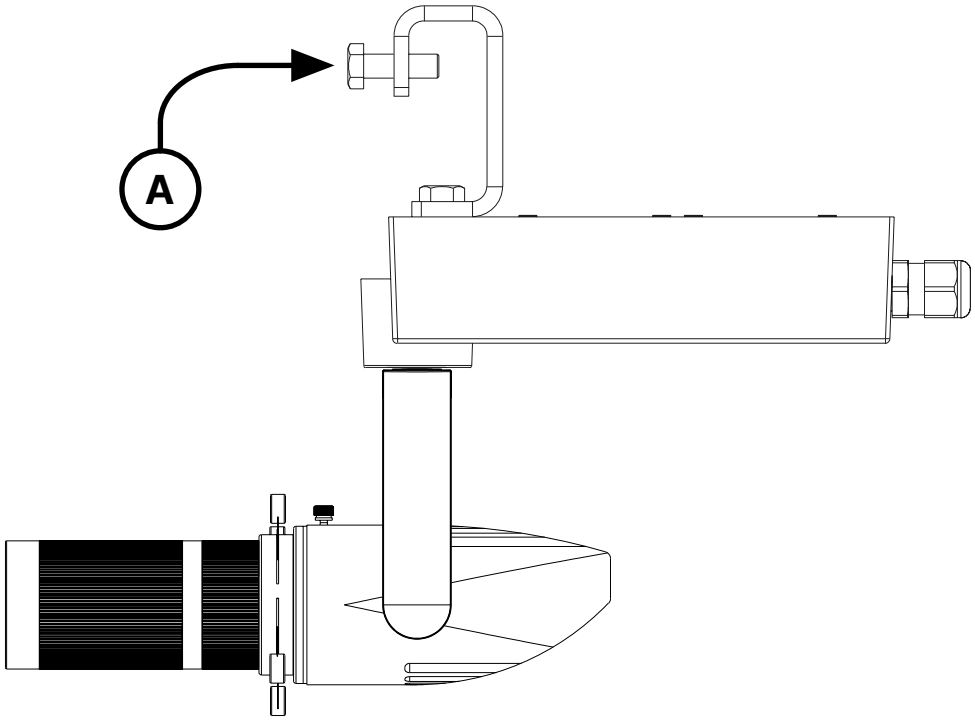
WARNING: When using the circuit selection lock, ensure that the selected circuit is a constant power circuit. Dialing into a dimmable circuit may cause luminaire damage that will void the COEMAR warranty.

***Only for the version with potentiometer on board.**

4.5 Portable version installation

iMagine Portable version may be hung from an appropriate structure in any position. If hanging the fixture from a lighting truss or similar, we recommend the use of an appropriate clamp "**A**", as shown in the following diagram.

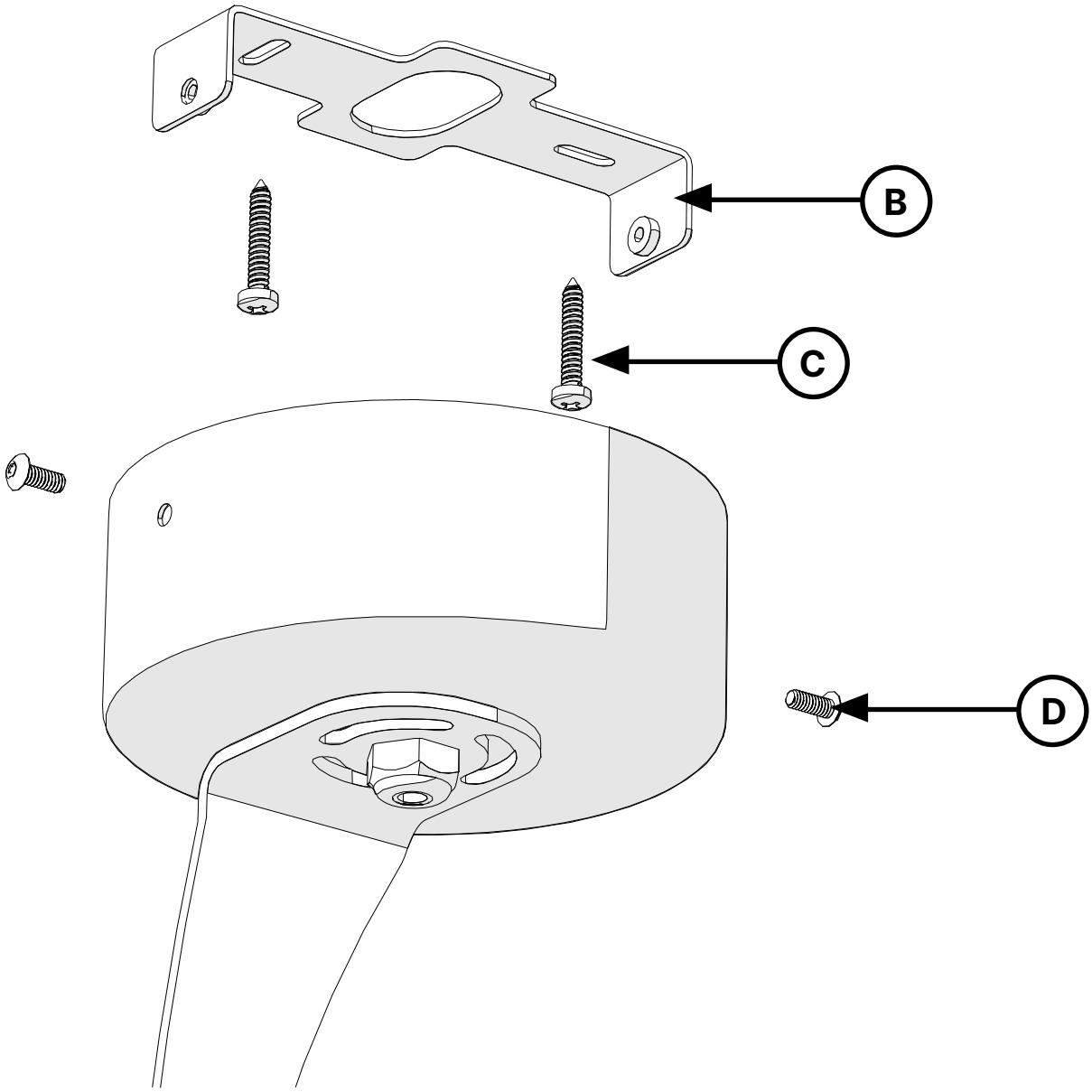
Note: use an **M8 screw** to fix the clamp to the IMagine's Power Box



WARNING: Always ensure that your support structure and fixing (bolts, clamps, etc...) are rated A to support the weight of the fixture.

4.6 Canopy version installation

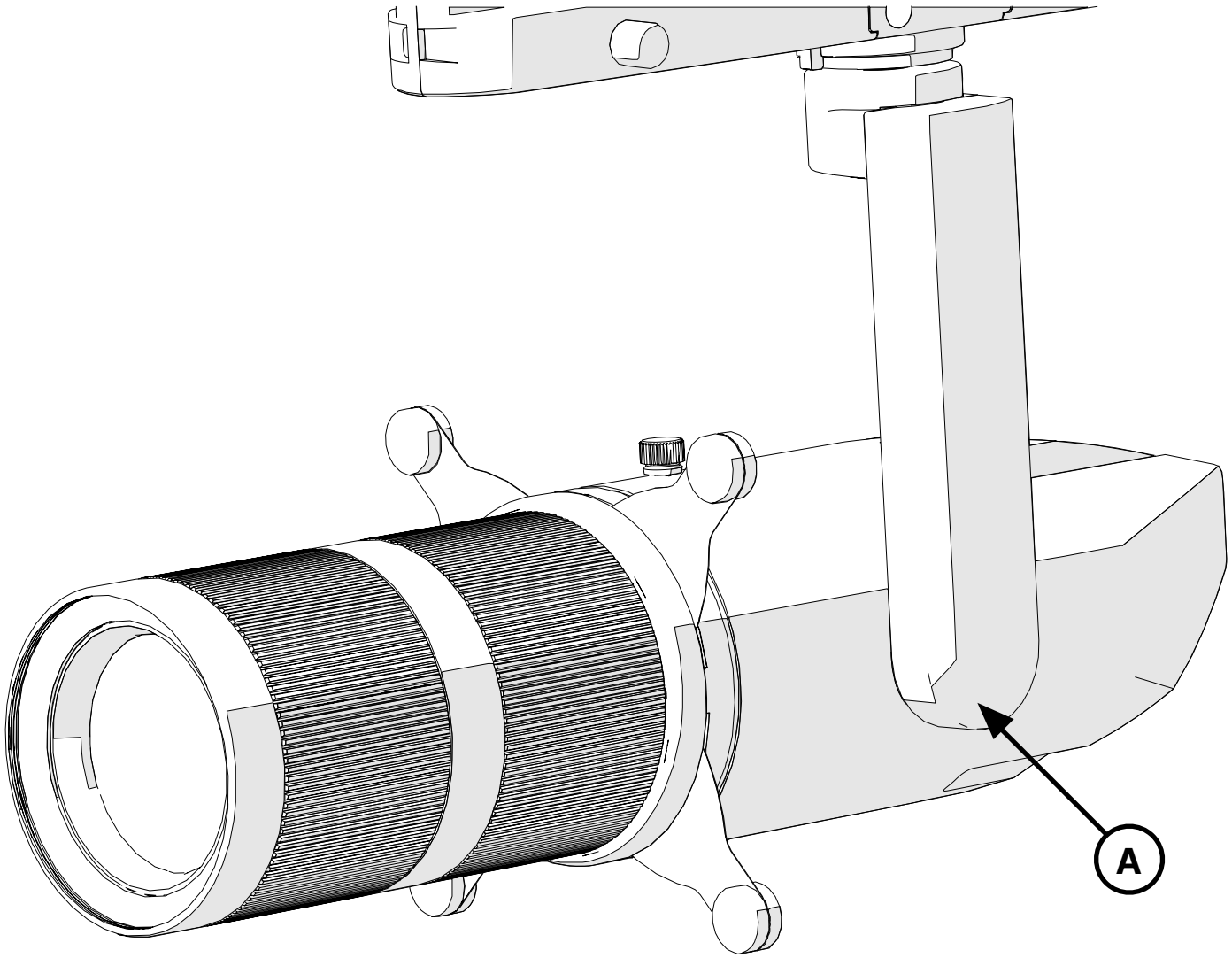
In order to mount a **iMagine Canopy version**, follow the drawing below by attaching first the metal plate "**B**" at the ceiling by using two screws "**C**" and then use the two screws "**D**" to fix the projector to the metal plate.



5. iMagine Profile Zoom Optical adjustments

5.1 Adjusting iMagine's tilt

In order to adjust the tilt of iMagine move the side yoke "**A**".

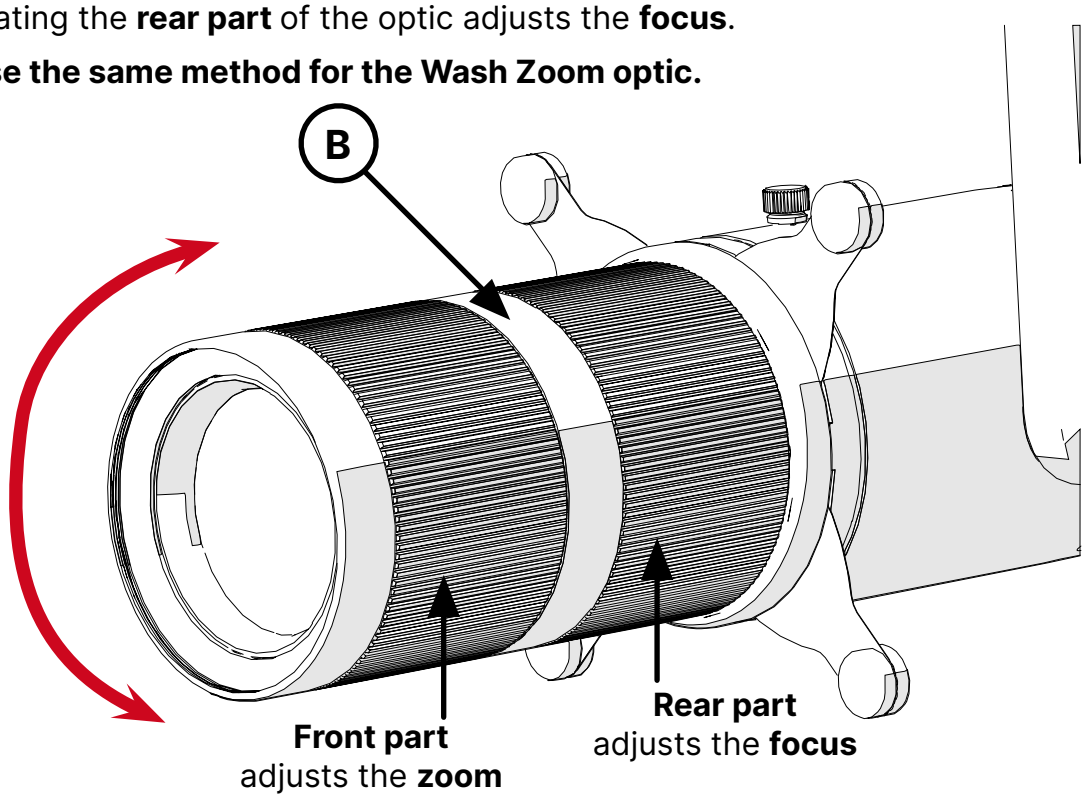


5.2 How to adjust the iMagine Profile's focus and zoom

To adjust the focus and zoom, rotate the optic "**B**" to the desired position:

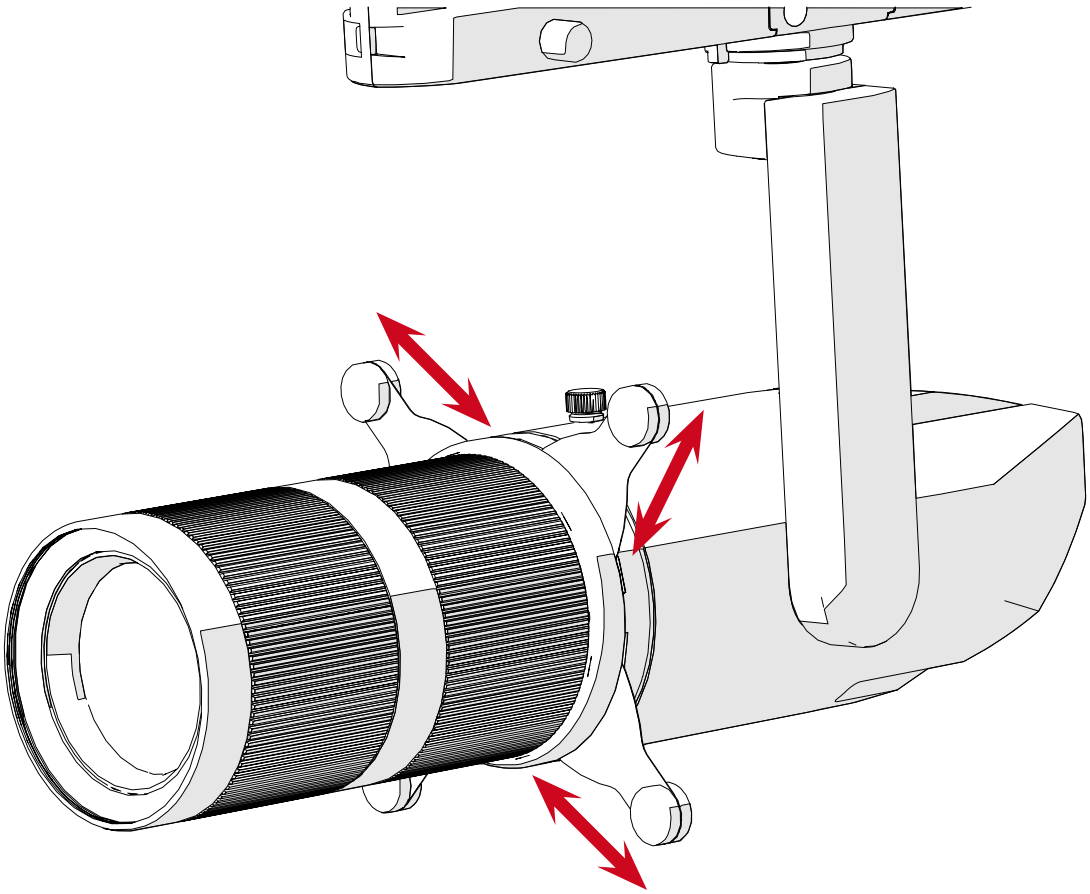
- Rotating the **front part** of the optic adjusts the **zoom**.
- Rotating the **rear part** of the optic adjusts the **focus**.

N.B. use the same method for the Wash Zoom optic.



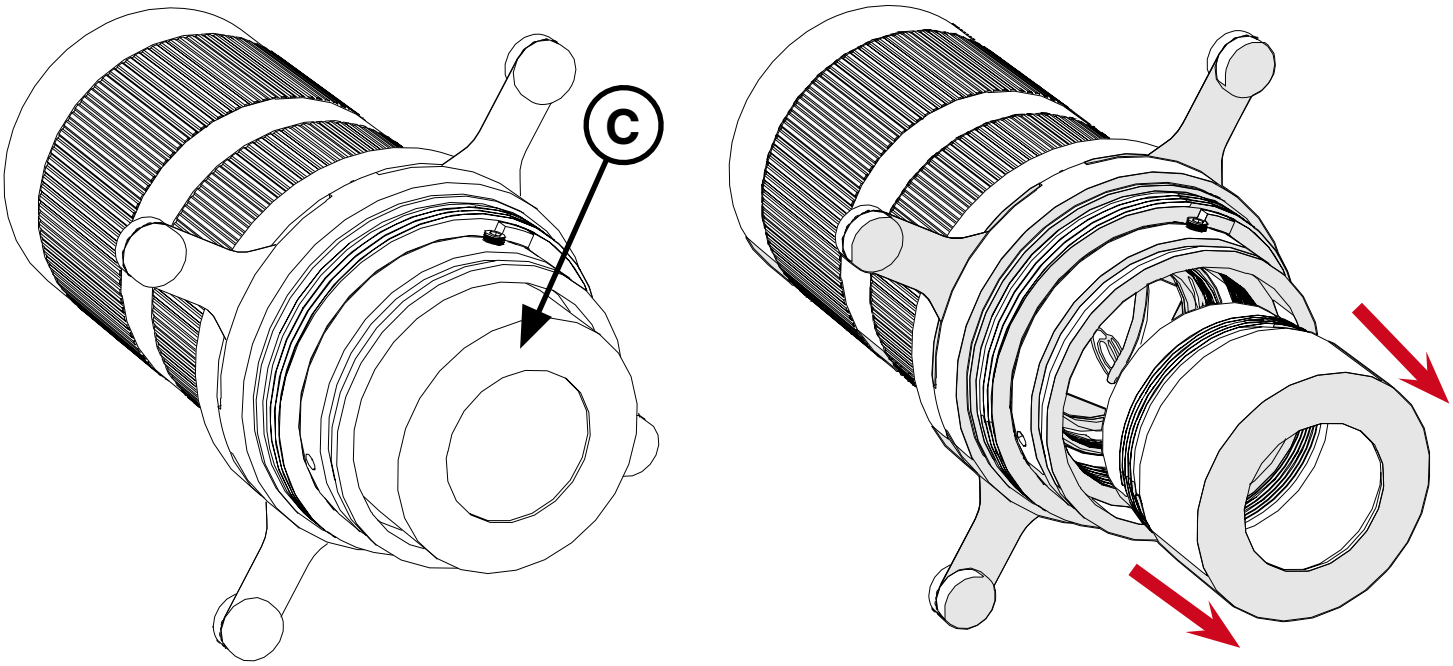
5.3 How to shape the iMagine Profile's Beam with Shutters

The luminaire has four shutters: left, right, top, and bottom. Each shutter can be pulled out or pushed in to create the desired beam shape.



5.4 How to mount the gobo

1. To change the gobo completely unscrew the optic then unscrew "**C**" and pull it away.



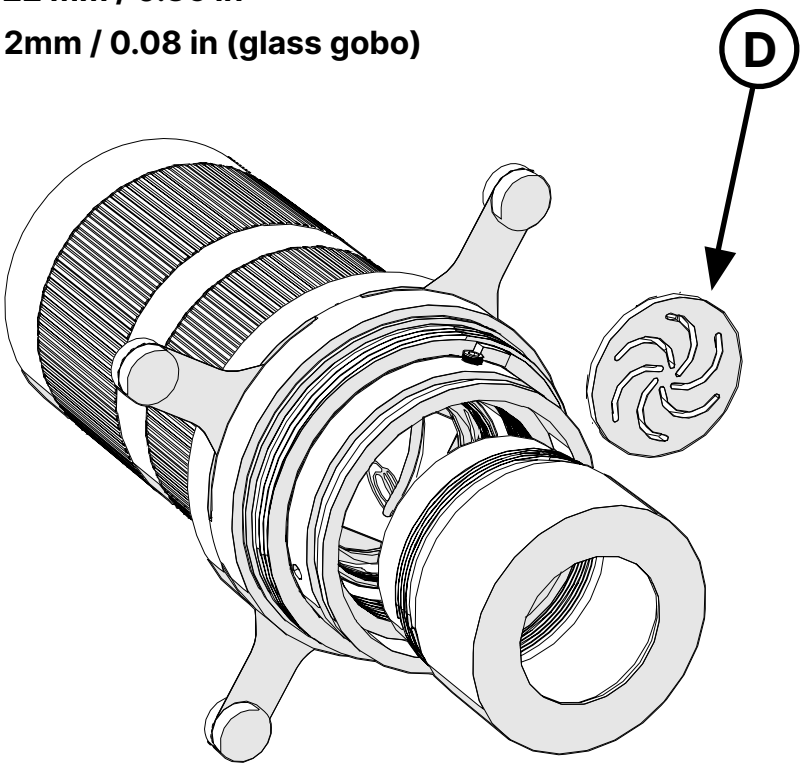
2. Insert the gobo "**D**" and proceed with the closing of the projector by re-mounting the gobo holder and by screwing again the optical lens tube until it will be perfectly closed.

N.B. the gobo **must comply with the following measures**, otherwise iMagine may not work properly:

Gobo outside diameter= 26 mm / 1.02 in

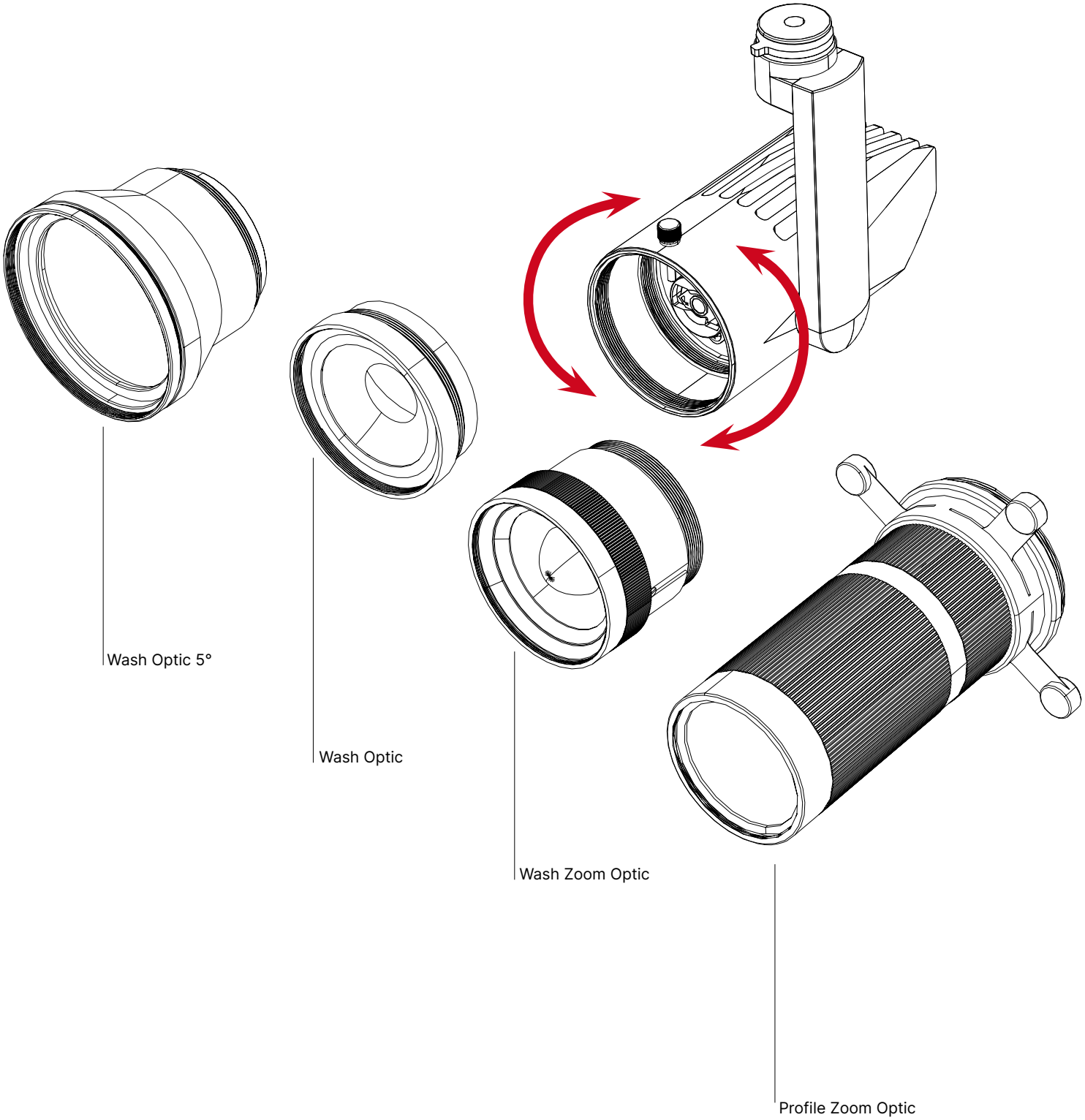
Max image diameter= 22 mm / 0.86 in

Max Gobo thickness= 2mm / 0.08 in (glass gobo)



5.5 How to change the optics

1. It is possible to choose among various optics, to change them simply unscrew counterclockwise the optic, replace it, and screw clockwise the new one.

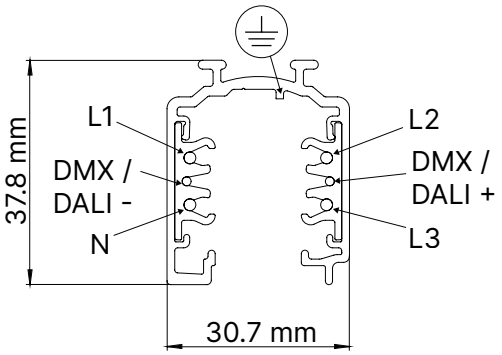


6. DMX/DALI Connection

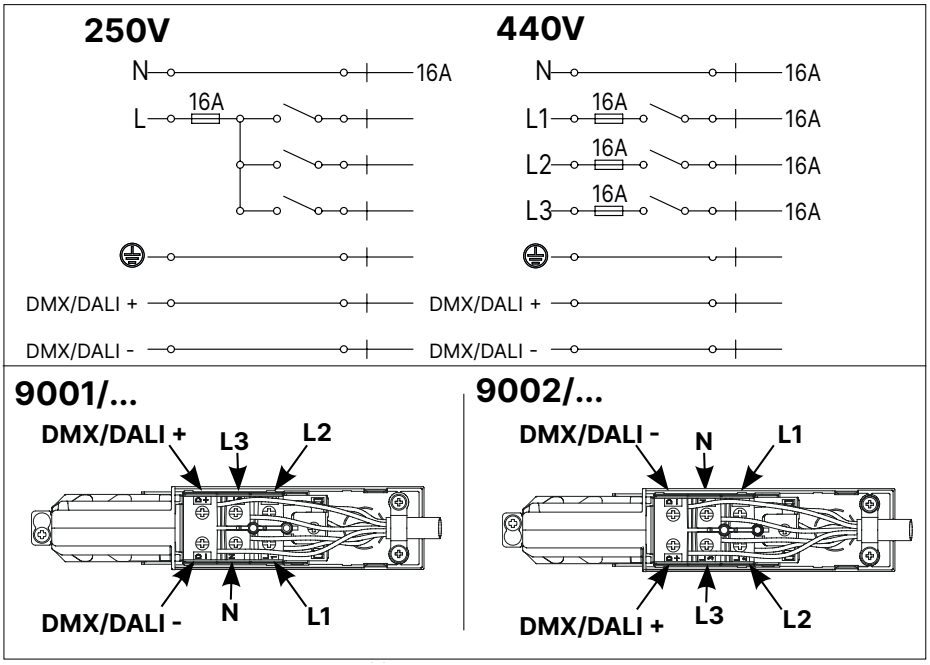
Follow the drawing below in order to properly connect the power head of the track on which the product will be installed.

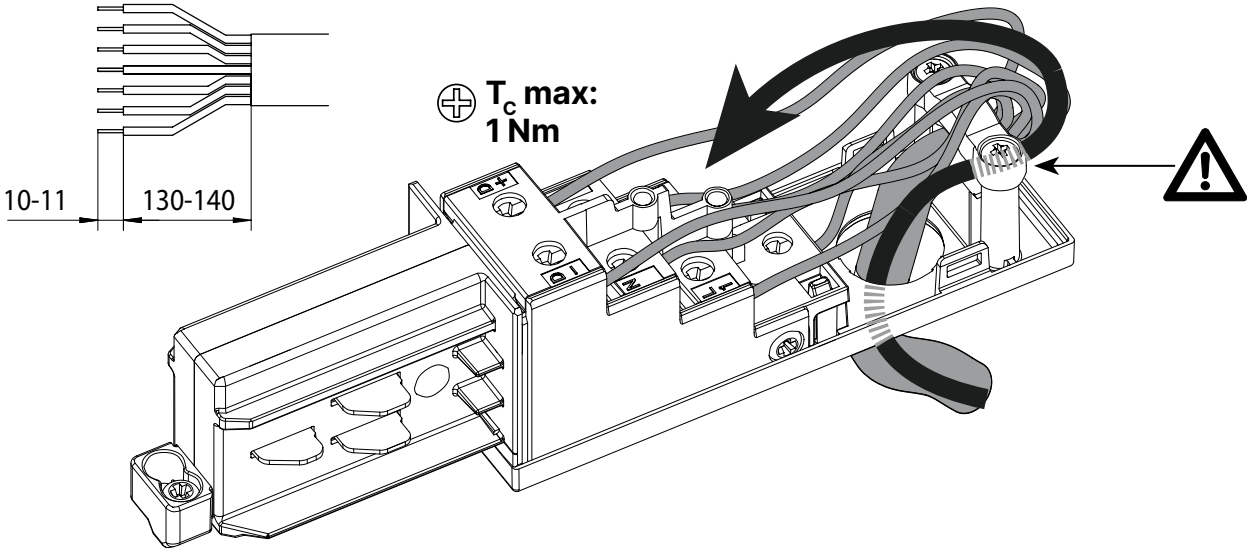
N.B. in case you need more information about the track you can visit the track producer website. See below for example the connection diagram for track STUCCHI (main track recommended).

WARNING! With tracks comply with DMX/RDM protocol, use termination resistor

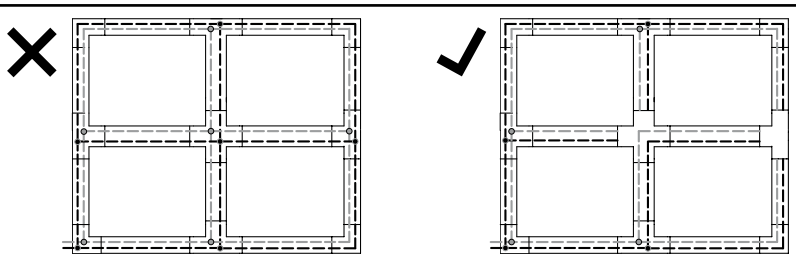


The shielded cable will remain disconnected





PLEASE ENSURE THAT THE DATA BUS WIRING DOES NOT CREATE A RING STRUCTURE. A FAILURE-FREE DATA BUS CANNOT BE ENSURED IF ONE IS PRESENT.
IF THE TRACK INSTALLATION REQUIRES THE USE OF "L", "T" OR "X" - SHAPED JOINT, IT IS POSSIBLE TO DISCONNECT THE DATA BUS IN THESE JOINTS TO AVOID CREATING A RING STRUCTURES.



7. Setup via RDM

7.1 Quick guide to menu

The **iMagine** required RDM (Remote Device Management) to set up fixtures. Using an RDM compliant DMX controller, you can communicate with all the fixtures on a data link without needing to connect to each fixture individually. RDM lets you set the DMX addresses of all the fixtures on the link, carry out fixture configuration and retrieve fixture data including details of any error that has been logged. If two or more identical fixtures are set up with the same DMX address and in the same DMX mode, they will receive the same instructions and behave identically. Setting up identical fixtures with the same address is a good tool for troubleshooting unexpected behavior and an easy way to achieve synchronized action. Setting DMX addresses via RDM involves running a scan to identify the fixtures that are present on the data link and then allocating addresses either automatically or manually.

To use RDM:

1. Obtain an RDM-compatible controller such as the RDM UPGRADE INTERFACE B (cod. AC10011A001) application running on a Windows PC.
2. Use a USB cable to connect the PC to a USB/DMX interface box
3. Connect the interface box to the data link.
4. Power the fixture on and carry out an RDM discovery / scan in your RDM-compatible controller.
5. You can then configure or retrieve data from the fixtures on the data link.

N.B. The maximum number of products that can be connected when using with RDM is 32 iMagine.

7.2 RDM Chart (fixed white version)

PARAMETER	DESCRIPTION
DMX ADDRESS	Set DMX Address: (1-512)

7.3 RDM Chart (RGBWW version)

PARAMETER	DESCRIPTION
DMX ADDRESS	Set DMX Address: (1-512)
CURVE	Set Dimming Curve: Linear, Logarithmic, Exponential, Halogen, Standard and S
FREQUENCY	Flicker-free
FACTORY DEFAULT	Factory Reset
PERSONALITY	10 channels
SENSOR	Visualize Sensor
LED HOURS	Visualize Led Life Hours
DEVICE HOURS	Visualize Device Life Hours
LOSS SIGNAL	0=MAINTAINT, 1=BLACKOUT
STARTUP	0=MAINTAINT, 1=BLACKOUT
SLOW SMOOTH	0=FAST, 1=SLOW, 2=VERY SLOW

7.4 RDM Error Chart

ERROR	DESCRIPTION	SOLUTION
MEMORY	Memory Reading Error	Perform A “Factory Reset”
HW MEMORY	Memory Hardware Error	Contact Coemar
DMX ADDR	DMX Addressing Error	The Personality Dimension Exceeds 512 Channels
NTC ERROR	Temperature Sensor Disconnected	Check Wiring NTC Led
SHORT NTC	Short-Circuited Temperature Sensor	Check Wiring NTC Led
OVER TEMP	Electronic Board Overtemperature	Ambient temperature too high, place the projector in an environment with temperature below 40°C

8. DMX chart - Fixed White version

8.1 DMX modes

DMX channels ↓	1 channel
1	Master Dimmer

8.2 DMX Chart 1 channels

channel	function	type of control	effect	decimal			percentage		
1	master dimmer	proportional	adjust luminous output intensity from 0 to 100%	0	-	255	0%	-	100%

9. DMX chart - RGBWW version

9.1 DMX modes

DMX channels ↓	10 channels
1	Master Dimmer
2	Dimmer Fine
3	Red
4	Green
5	Blue
6	Warm White
7	Cold White
8	White Tone
9	Green Saturation
10	Saturation

9.2 DMX Chart 10 channels

channel	function	type of control	effect	decimal	percentage
1	master dimmer	proportional	adjust luminous output intensity from 0 to 100%	0 - 255	0% - 100%
2	dimmer fine	proportional	fine dimmer control 16 bit	0 - 255	0% - 100%
3	red	proportional	proportional control of the color percentage from 0% to 100%	0 - 255	0% - 100%
4	green	proportional	proportional control of the color percentage from 0% to 100%	0 - 255	0% - 100%
5	blue	proportional	proportional control of the color percentage from 0% to 100%	0 - 255	0% - 100%
6	warm white	proportional	proportional control of the warm white percentage from 0% to 100%	0 - 255	0% - 100%
7	cold white	proportional	proportional control of the cold white percentage from 0% to 100%	0 - 255	0% - 100%
8	white tone	step	2.700 K	0 - 6	0% - 2%
		proportional	proportional value from 2.700 K to 3.200 K	7 - 33	3% - 13%
		step	3.200 K	34 - 60	13% - 24%
		proportional	proportional value from 3.200 K to 4.000 K	61 - 87	24% - 34%
		step	4.000 K	88 - 114	35% - 45%
		proportional	proportional value from 4.000 K to 5.000 K	115 - 141	45% - 55%
		step	5.000 K	142 - 168	56% - 66%
		proportional	proportional value from 5.000 K to 5.600 K	169 - 195	66% - 76%
		step	5.600 K	196 - 222	77% - 87%
		proportional	proportional value from 5.600 K to 6.500 K	223 - 249	87% - 98%
		step	6.500 K	250 - 255	98% - 100%
9	green saturation	step	no effect	0	0%
		proportional	exalts the green color in the mixing and diminishes the presence of magenta	1 - 127	0% - 50%
		step	no effect	128	50%
		proportional	diminishes the presence of green in the mixing and exalts the magenta color	129 - 254	51% - 99%
		step	no effect	255	100%
10	saturation	proportional	the white tone fades to the tone built with the RGBWW channels	0 - 255	0% - 100%

10. Accessories and spare parts

iMagine is a very versatile fixture, optional accessories for its customization are available under request:

10.1 Wash Optics

Accessory name	Code
Wash Lens 5°	BC119A010
Wash Lens 10°	BC119A005
Wash Lens 15°	BC119A001
Wash Lens 20°	BC119A002
Wash Lens 30°	BC119A003
Wash Lens 40°	BC119A004
Wash Zoom 10°-50° (for fixed white only)	BC119A011
Wash Zoom 5°-50° (for RGBWW only)	BC119A013

10.2 Wash Optics Accessories

Accessory name	Code
Dichroic Filters Kit (5 filetrs included)	TBD
Red Filter	BC119A405
Green Filter	BC119A406
Blue Filter	BC119A407
Cyan Filter	BC119A408
Magenta Filter	BC119A409
Oval Filter	BC119A410
Softening Filter	BC119A411
Wall Washing Filter	BC119A412
Honey Comb Filter	BC119A413
Top Heat	BC119A414
Half Top Heat	BC119A415
Donut	BC119A416
Cross Baffle	BC119A417
Barndoor	BC119A418
Honey Comb Filter (for Wash Lens 5° only)	BC119A422

10.3 Profile Zoom Optics Optics

Accessory name	Code
Profile Zoom 18°-35°	BC119A0115
Profile Zoom 25°-40°	BC119A016
Profile Zoom 50°-60°	BC119A017

10.4 Profile Zoom Optics Accessories

Accessory name	Code
Dichroic Filters Kit (5 filetrs included)	TBD
Red Filter	BC119A400
Green Filter	BC119A401
Blue Filter	BC119A402
Cyan Filter	BC119A403
Magenta Filter	BC119A404

11. Maintenance

11.1 Firmware update

The firmware of **IMagine** can be updates through the RDM protocol (ANSI E1.20). Contact Coemar assistance to receive the software and the device updater (AC10011A000).

11.2 Periodic cleaning

Lenses

Even a thin layer of dust can reduce the luminous output and alter the consistency of the beam. Regularly clean all filters and lenses using a soft cotton cloth, dampened with a special lens cleaning solution.

Cleaning of the unit

Use a soft brush or a common vacuum cleaner or a source of compressed air for removing dust. For the cleaning of the housing use a soft cloth and a non-aggressive cleaner. Check that the internal fans and heat exchanger must be perfectly clean.

11.3 Periodic controls

Mechanical components

Check the correct working of the mechanical parts and, if needed, replace them. Make sure the projector is not mechanically damaged. If necessary, replace the worn parts.

Electrical components

Check all electrical connections, in particular for correct grounding and correct attachment of all extractable connectors. Press the connectors if necessary and reposition as before.

12. F.A.Q. and answers

The following list shows common issues that may be simply solved. If issues persist, the unit must be repaired by a qualified personnel or just contact your **Coemar** service near you.

Question	Possible solution
iMagine Profile does not emit light	**Projector not powered on:** • Make sure the power cord is plugged in or test the input voltage. **Wrong DMX address:** • Check the DMX Address setting and the output signal of the controller.
iMagine Profile is not responding to DMX signal	**DMX signal may not reach IMagine Profile:** • Inspect the cable connection, correct poor connections or inefficient repair or replace damaged cables. • Check DMX address of the unit.

Help from Coemar Technical Services

If you are having difficulties and your problem is not addressed by this document, contact Coemar Technical Services directly at one of this email address:

info@coemar.com / service@coemar.com

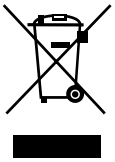
Or call the number **+39 0376 1514412**

When calling for help, take these steps first:

• Prepare a detailed description of the problem

• Go near the equipment for troubleshooting

User notes



Information on disposal of the equipment

The equipment at the end of its useful life must be disposed of at an appropriate recycling center for waste electrical and electronic equipment. The treatment and disposal of environmentally friendly, helps prevent potential negative environmental and health and promote the reuse and / or recycling of materials making up the equipment. Illegal disposal by the user includes the application of administrative sanctions provided by law.

Coemar Lighting s.r.l.
Via Carpenedolo 90
46043 Castiglione delle Stiviere, Mantova, Italy
phone. +39 0376/1514412 - fax +39 0376/1514380
info@coemar.com

Coemar reserves the right to change specifications without prior notice

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