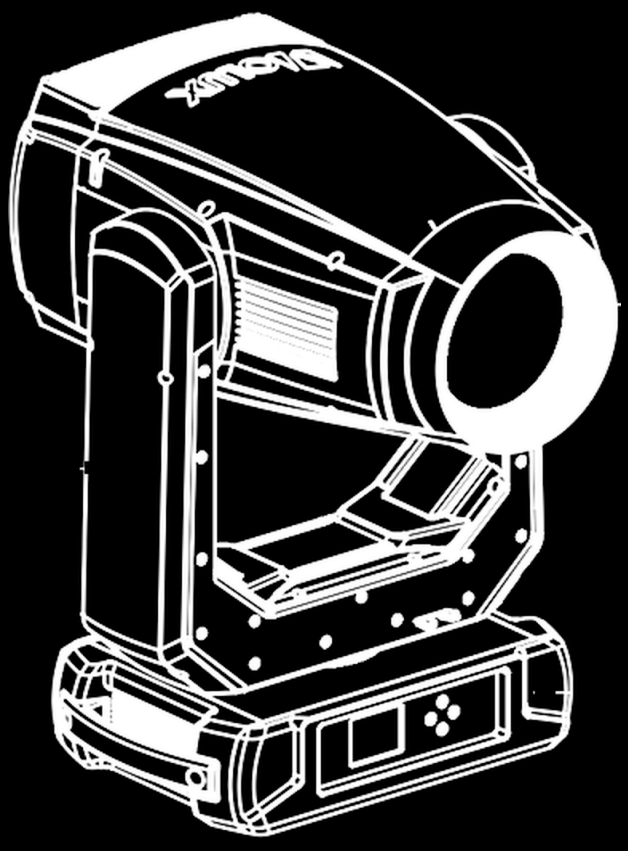
VOLUX

INNOVATIVE LUMINESCENCE



PHYSOS

IP66 LED Profile Moving Head

USER MANUAL

Rev. 2.0

voluxlighting.com

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1. Safety Information

Read this manual before installing or operating Physos and keep it with the fixture. Physos is for professional use only and must be installed by qualified personnel in accordance with all applicable codes.

WARNING	**No user-serviceable parts inside.** Do not open the housing or attempt repairs yourself. Doing so will void your warranty. Refer all service to VOLUX Technical Support or your VOLUX Authorized Dealer or Distributor.
CAUTION	**Intense light source.** Never look directly into the beam while the fixture is on. Do not view the beam through optical instruments. Keep at least 9.8 ft (3 m) between the front lens and people's eyes.

User and audience safety

- Position the fixture at a safe distance from the eyes of the audience where prolonged staring is not expected.
- Do not touch the housing during operation; it becomes hot.
- Never operate the fixture with a damaged housing, lens or cable.

Mounting and rigging safety

- Always carry the fixture by its grip handles. Never lift it by the head.
- Always use a secondary safety cable when the fixture is suspended overhead.
- Make sure all rigging hardware and accessories are tightly secured to the fixture.
- Keep at least 20 in (50 cm) of clearance from adjacent surfaces for ventilation, and keep the fixture away from flammable materials.
- Keep cables clear of the pan and tilt path.

Power safety

- **Risk of electric shock.** Always connect to a grounded (earthed) circuit, and disconnect mains power before cleaning or maintenance.
- Do **not** connect the fixture to a dimmer pack or rheostat.
- Connect only to a stable supply within the rated voltage (100–240 V AC, 50/60 Hz).
- Never connect the fixture to a cable without a ground conductor.
- Disconnect power by the plug or breaker during non-use. Never pull on the power cable.

Operational and environmental safety

- **IP66 rated.** Physos is sealed against dust and powerful water jets. Do not submerge the fixture.
- **Not for permanent installation in extreme environmental conditions**, including marine, saline or coastal locations (within 3 miles of salt water), locations where normal temperatures exceed the operating temperature rating, and locations prone to flooding or being buried in snow.
- Outdoors, use IP-rated power and data cables and close every unused connector with its weather-seal cover.
- After moving between very different environments (e.g. cold truck to warm, humid venue), let the fixture reach room temperature before powering on.

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2. Product Overview

Physos is an IP66-rated LED profile moving head that brings large-scale output and a full profile toolkit to indoor and outdoor shows. A 1,000 W, 7,500 K LED engine delivers more than 58,000 lumens through a native 4.7°–58° zoom for long throws. Full CMY + CTO mixing with Mintra™ minus-green correction and two dichroic color wheels with high-CRI filters provide accurate, vivid color. Two rotating gobo wheels, an animation wheel, dual prisms, a 16-blade iris and a full-blackout framing system complete the effects package, in a compact body weighing 84.6 lb (38.4 kg).

Key features

Feature	Detail
Light source	1,000 W 7,500 K LED engine, 50,000 hour life
Output	58,000 lumens; 142,000 lx at 16.4 ft (5 m), 4.7°
Optics	Native 4.7°–58° high-speed zoom; motorized focus with auto-focus
Color	Variable CMY + CTO (3,000–7,500 K); Mintra™ minus-green; two 5-slot dichroic wheels incl. CTB, CRI 80 and CRI 90 filters
Gobos	Two 6-slot rotating, indexable, interchangeable gobo wheels
Effects	Animation wheel; 6-facet circular and 6-facet linear prisms (layerable); 16-blade iris; soft- and hard-edge frost
Framing	Four blades, full blackout, 60° assembly rotation, with macros
Control	DMX512, RDM, Art-Net, sACN; 54- and 56-channel modes; 18-bit dimming

In the box

Item	Qty	Item	Qty
Physos fixture	1	5-pin XLR cable	1
Omega brackets	2	Safety cable	1
PowerCON TRUE1 power cable	1	Foam case insert	1

Quantities may vary with the original order configuration. Refer to your packing list or invoice.

Unpacking and claims

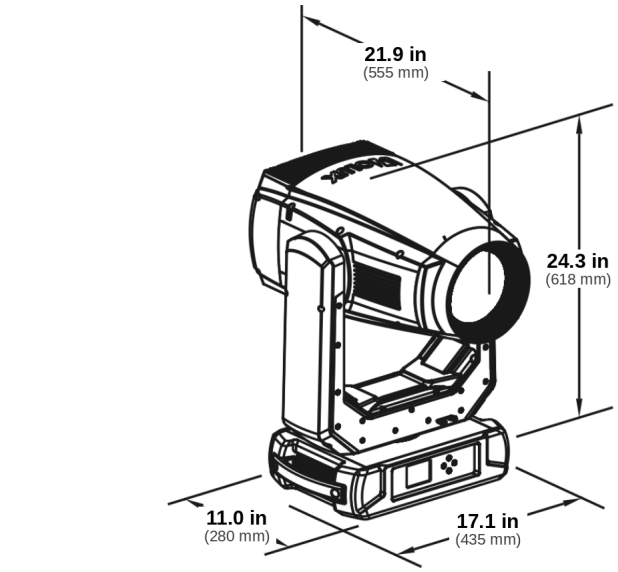
Unpack the fixture immediately and check that all parts are present and in good condition. If the carton or contents show signs of damage or mishandling in shipping, notify the carrier immediately, not VOLUX. Failure to report shipping damage immediately may invalidate your claim. For missing parts or damage not related to shipping, contact your VOLUX Authorized Dealer or Distributor within 7 days of delivery. To unpack, open the flight case, lift the fixture out with one person on each side, and release the pan and tilt locks before operating.

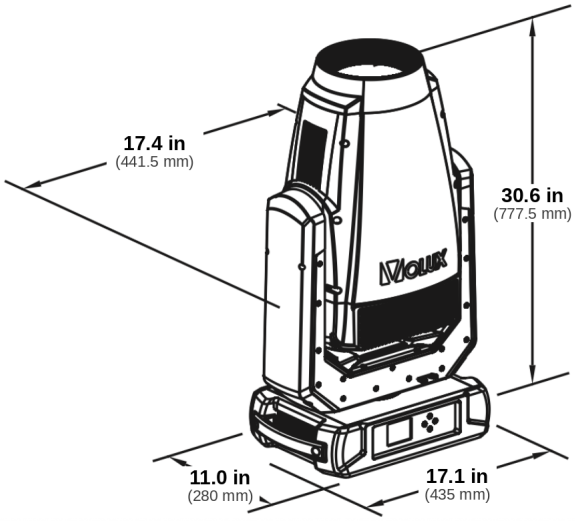
LED lifespan

LEDs gradually lose brightness over time, mainly due to heat. Under normal conditions the LED engine is rated for approximately 50,000 hours. You can extend LED life and keep fixtures consistent by providing good ventilation, lowering the ambient temperature, and avoiding long periods at full intensity.

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3. Fixture Dimensions

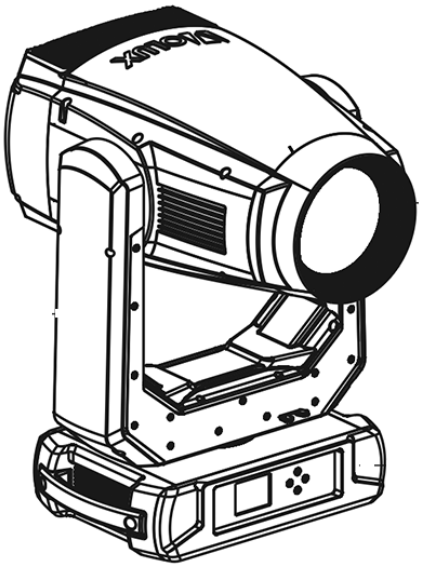




Dimension	Value
Width (across arms)	17.4 in (441.5 mm)
Height, head up	30.6 in (777.5 mm)
Height, head at 90°	24.3 in (618 mm)
Head length	21.9 in (555 mm)
Base (W × D)	17.1 × 11.0 in (435 × 280 mm)
Net weight	84.6 lb (38.4 kg)

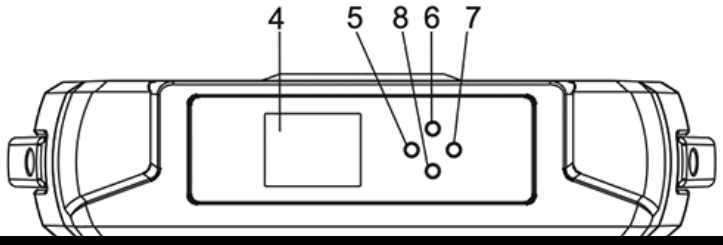
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4. Controls & Connections



Part	Description
Head	Tilt 270°, 16-bit; returns to position automatically
Arm (yoke)	Pan 540°, 16-bit; returns to position automatically
Base	Control panel, connection panel and grip handles

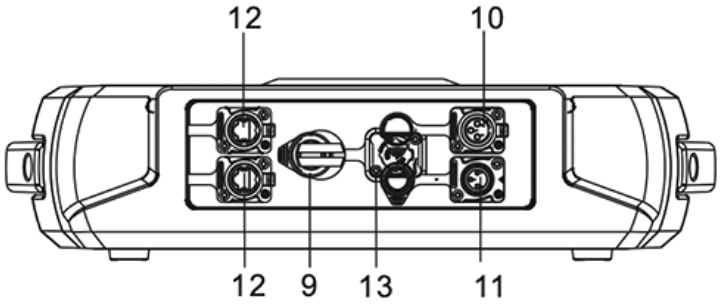
Control panel



#	Control	Function
4	Display	Full-color VOLUX Vi2 LCD, auto-rotating
5	MODE / ESC	Back out of a menu or cancel
6	UP	Move up / increase value
7	ENTER	Open a menu or confirm a value
8	DOWN	Move down / decrease value

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Connection panel



#	Connection	Function
9	Battery access	Display battery compartment
10	DMX OUT	Neutrik® 5-pin XLR, DMX/RDM thru
11	DMX IN	Neutrik® 5-pin XLR, DMX/RDM input
12	RJ45 IN / THRU	Neutrik® etherCON, Art-Net / sACN
13	POWER IN	Neutrik® powerCON TRUE1 TOP, 100–240 V AC

On-board battery

A battery behind the battery access cover lets the display run without mains power, so you can set the address and mode before a show. Check the battery periodically for health and signs of defects.

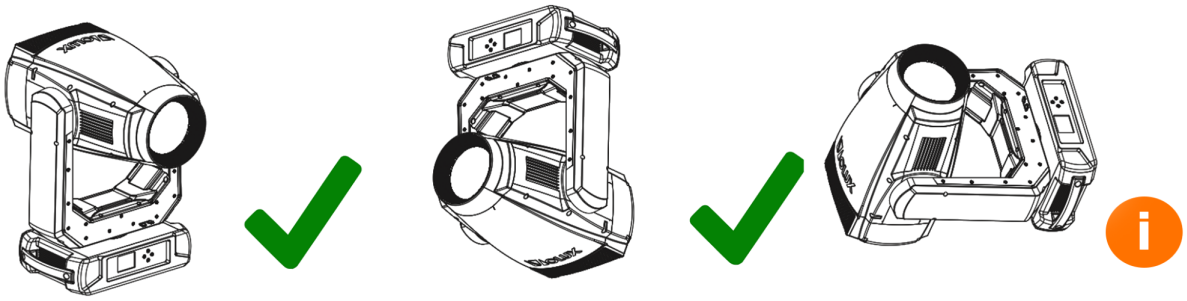
[ENGINEERING TO SUPPLY] Battery type, how to activate the display on battery power, and replacement procedure.

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5. Rigging

Physos can stand on a flat surface or be rigged in any orientation. Rigging must be carried out by qualified personnel in accordance with all local codes.

Orientation



NOTE

Because of Physos's size and weight, take extra care when mounting the fixture horizontally (sideways). Prolonged installation in this orientation puts additional strain on the pan and tilt motors.

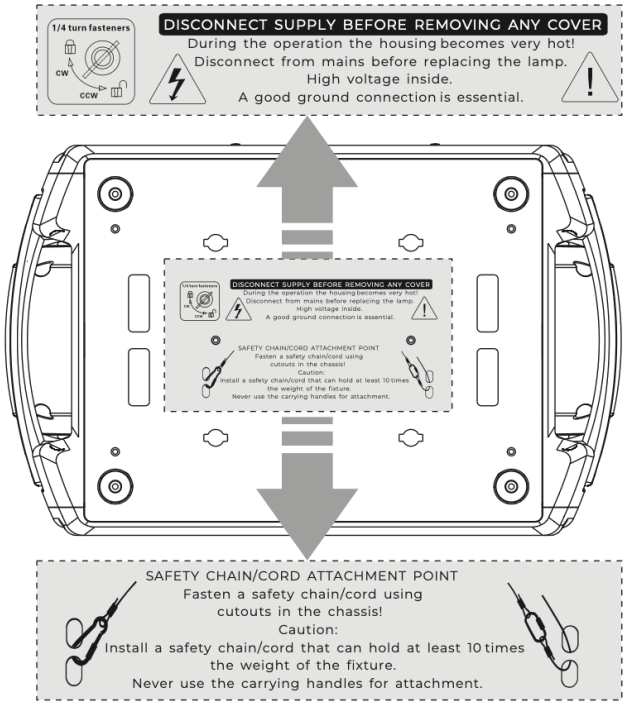
Load rules

- The supporting structure must hold at least **10 times** the fixture's weight without deformation.
- Always install a secondary safety cable rated for at least **10 times** the fixture's weight, using a screw-lock carabiner.
- Never attach the safety cable to the grip handles. Use the dedicated safety attachment points on the base.
- Keep the area below the fixture clear while rigging, de-rigging or servicing.

Overhead installation

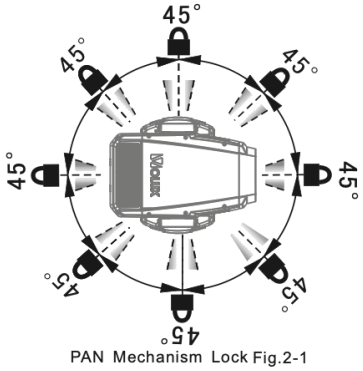
1. Engage the pan and tilt locks.
2. Fasten a truss clamp to each omega bracket (M13 hole) with an M12 bolt and lock nut.
3. Fit both omega brackets to the receptacles on the underside of the base and turn the quarter-turn fasteners clockwise until fully locked.
4. Hang the fixture from the truss and tighten the clamps.
5. Pass the safety cable through the safety attachment points in the base and around the truss, then lock the carabiner.
6. Release the pan and tilt locks before operating.

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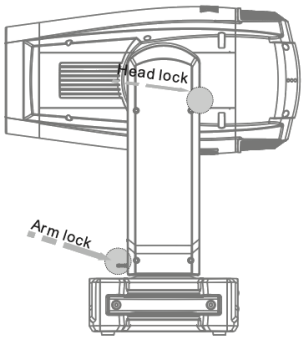


Base underside: omega bracket receptacles (quarter-turn fasteners) and safety cable attachment points.

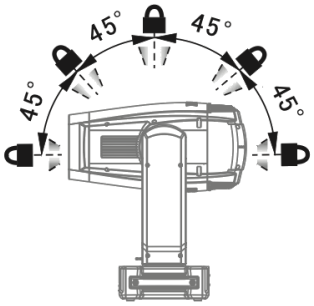
Pan and tilt locks



PAN Mechanism Lock Fig.2-1



Level vertical transportation lock Fig.2



Tilt Mechanism Lock Fig.2-2

Pan and tilt can each be locked in 45° steps. Lock both for transport and while rigging, and release both before operating.

Floor installation

Place the fixture on a flat, stable surface. Do not stand the fixture on the floor with the omega brackets installed.

6. Power & Data Connection

Power

Physos has an auto-ranging power supply and operates on 100–240 V AC, 50/60 Hz. Connect it with the supplied Neutrik® powerCON TRUE1 cable. Physos has no power output; power each fixture from its own feed.

Supply	Max. current (1,200 W)
120 V, 60 Hz	10.4 A
208 V, 60 Hz	6.0 A
230 V, 50 Hz	5.4 A

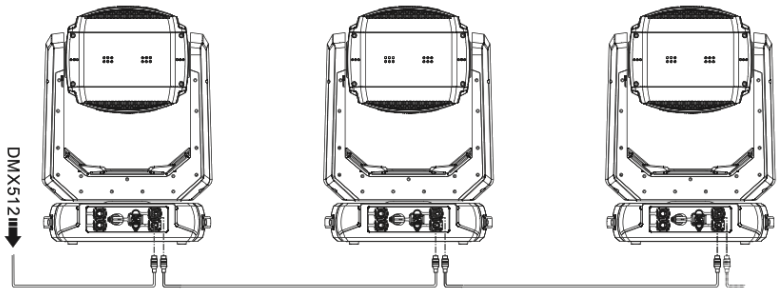
Values are calculated from maximum power consumption and power factor (>0.96). Size circuits and breakers accordingly.

Conductor	US	International	Pin
Live	Black	Brown	L
Neutral	White	Blue	N
Ground	Green	Green / Yellow	E

WARNING	Always connect the fixture to a protected circuit with a proper ground to avoid electric shock or fire.

DMX512

Link Physos to a DMX controller or console with 5-pin DMX cable, daisy-chaining from DMX OUT to the next fixture's DMX IN. Terminate the last fixture in the chain with a 120 Ω DMX terminator. Up to 9 Physos fixtures fit on one 512-channel universe in either mode. RDM (ANSI E1.20) remote monitoring and setup runs over the same line; enable it under **DMX Setup › RDM**.



Art-Net and sACN

Physos receives Art-Net™ and sACN (ANSI E1.31) over its Neutrik® etherCON RJ45 IN/THRU ports in every channel mode. Set the input under **DMX Setup › DMX Input** and the protocol, universe and IP settings under **DMX Setup › Network**. VOLUX recommends unicast Art-Net™ for best results. (Art-Net™ designed by and copyright Artistic Licence Holdings Ltd.)

Ethernet-to-DMX: with **Ethernet In / XLR Out** selected, the fixture receives Art-Net or sACN and outputs the universe on its DMX OUT connector, so you can feed DMX-only fixtures further down the line.

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7. Menu Operation

Navigation

Button	Function
ENTER	Open the selected menu or confirm a value
UP / DOWN	Scroll through items or change a value
MODE / ESC	Go back one level or cancel without saving

Setting the DMX address and channel mode

1. Press ENTER and open **DMX Setup**.
2. Select **Channel Mode** and choose Mode 1 (Basic, 54CH) or Mode 2 (Extended, 56CH). Press ENTER.
3. Select **DMX Address**, set the start address (1–457) with UP/DOWN and press ENTER.
4. Press MODE/ESC to return to the main display.

Mode	Channels	Start addresses (first universe)
Mode 1 – Basic	54	001, 055, 109, 163, 217, 271, 325, 379, 433
Mode 2 – Extended	56	001, 057, 113, 169, 225, 281, 337, 393, 449

Menu map

Menu	Item	Options	Description
DMX Setup	DMX Address	1–457	Fixture start address
	Channel Mode	Mode 1 / Mode 2	Basic 54CH / Extended 56CH
	DMX Input	Wired Input	Receives data from XLR
		Ethernet Input	Receives Art-Net / sACN
		Ethernet In / XLR Out	Receives Art-Net / sACN and outputs it on DMX OUT
	Network › Mode	Art-Net / sACN	Selects the Ethernet protocol
	Network › Art-Net Universe	0–255	Art-Net universe 1–256
	Network › sACN Universe	0001–9999	sACN universe
	Network › IP Address	—	Sets a custom IP address
	Network › Net Mask	—	Sets the subnet mask
	Network › Reset IP Setup	YES / NO	Restores factory IP settings
	RDM	ON / OFF	Enables or disables RDM

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Menu	Item	Options	Description
Option	Pan Invert	Off / On	Reverses pan direction
	Tilt Invert	Off / On	Reverses tilt direction
	Feedback	Off / On	Automatic position correction
	Pan/Tilt Mode	Speed / Time	Pan/tilt channel controls speed or move time
	Frequency Setup	300 / 600 / 1200 / 2400 Hz	LED PWM frequency
	Fan Mode	Auto / High / Super Quiet	Cooling fan mode
	Blackout Settings	Off / On	Blackout while values change
	Dimmer Curve	Linear / Square Law / Super Square Law	Dimming response
	Display	Off / On	Display backlight
	Auto Screen	Off / On	Display auto-rotate / timeout
Information	System Errors	—	Shows current errors
	Fixture Hours	Resettable / Total	Running time; resettable time can be cleared
	LED Hours	Resettable / Total	Light-source running time; resettable time can be cleared
	DMX Values	—	Shows every channel and its current DMX value
	Fixture Temperatures	—	LED and base temperatures
	RDM UID	—	Shows the RDM UID; change it with password
	Board Info	—	Firmware version of each driver board
Manual Control	Reset Functions	Total / Pan-Tilt / Colour System / Gobo-Effect / Optics-Prism-Frost / Iris-Framing	Resets the selected motor group
	Channels	0–255 per function	Sets each function manually to test or position the fixture
Advanced *	Calibrations	Password	Custom calibration of effects
	Menu Locking	Off / On / Enter Password	Locks the menu with a password
	Factory Default	YES / NO	Restores all factory settings

* Advanced items are password protected. Contact VOLUX Technical Support for calibration passwords.

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8. Operation & Effects

Power-up

When powered on, Physos resets all motors and returns to its last settings, then responds to control data. The control channel (Mode 2 channel 6) can trigger resets and change settings remotely; hold the value for 3 seconds to activate.

Fan modes

Mode	Description	DMX (Mode 2, ch 6)
Auto	Fan speed follows fixture temperature (default)	80–84
High	Maximum cooling for full output in hot environments	85–89
Super Quiet	Lowest noise for theatre and broadcast	90–91

Dimmer curves and LED frequency

Setting	Options	DMX (Mode 2)
Dimmer curve	Linear / Square Law / Super Square Law	Ch 6: 115–119 / 110–114 / 95–99
LED PWM frequency	300 / 600 / 1200 / 2400 Hz	Ch 7: 5–9 / 10–14 / 15–19 / 20–24

Effects reference

Effect	Description
Color wheel 1	Deep Red, Deep Blue, Orange, Green, Congo Blue + open; indexing, rotation and random scroll
Color wheel 2	Color Split, Laser Green, Lavender (CTB), CRI 80 filter, CRI 90 filter + open
CMY + CTO	Linear cyan, magenta, yellow and CTO flags (3,000–7,500 K)
Mintra™	Variable minus-green correction
Gobo wheels	Two wheels, 6 rotating gobos + open each; index, rotate, shake and scroll
Animation wheel	Variable insertion with continuous CW/CCW rotation and 10 macros
Prisms	6-facet circular and 6-facet linear, rotating and indexable, layerable
Frost	Light (soft-edge) and medium (hard-edge) frost with pulse and ramp effects
Iris	16-blade motorized iris with pulse macros
Framing	Four blades, each with insertion and ±30° swivel; assembly rotates 60° each way
Shutter / strobe	Electronic strobe, pulse open/close and random strobe
Zoom / focus	4.7°–58° zoom with motorized focus, auto-focus tracking

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9. Gobos

Physos has two rotating gobo wheels with six interchangeable slot-and-lock gobos each, plus an open position. Each gobo can be indexed, rotated, shaken and scrolled. Values below are for the gobo wheel channel in index mode (Mode 2 channels 26 and 30); open = 0–4.

Outer diameter	Image diameter	Thickness
31 mm	22 mm	1.1 mm

Gobo wheel 1



1 · 5–8
shake 60–71



2 · 9–13
shake 72–83



3 · 14–17
shake 84–95



4 · 18–22
shake 96–106



5 · 23–26
shake 107–118

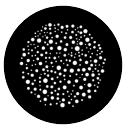


6 · 27–31
shake 119–129

Gobo wheel 2



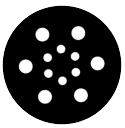
1 · 5–8
shake 60–71



2 · 9–13
shake 72–83



3 · 14–17
shake 84–95



4 · 18–22
shake 96–106



5 · 23–26
shake 107–118



6 · 27–31
shake 119–129

Animation wheel



A fully rotating animation wheel that slides into the beam. Set insertion (0–19 open, 20–127 variable position), then rotation (continuous clockwise or counter-clockwise) or one of 10 built-in macros. Combine with focus and the gobo wheels for flame, water and cloud effects.

Custom gobos

Custom gobos must be 31 mm outer diameter, 22 mm image and 1.1 mm thick, in high-temperature glass or metal. Fit glass gobos with the coated side toward the lens (on textured glass, the smooth side faces the light source), and handle them by the edges with lint-free gloves.

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10. DMX Channel Chart

Mode 1 (Basic, 54CH) is the same as Mode 2 (Extended, 56CH) without the two gobo wheel fine-position channels. "–" marks a channel that is not present in that mode. The control channel needs its value held for 3 seconds to activate; return it to 0 afterwards.

M1	M2	Function	Value	Description
1	**1**	**Pan**	0–255	
2	**2**	**Pan Fine (16-Bit)**	0–255	
3	**3**	**Tilt**	0–255	
4	**4**	**Tilt Fine (16-Bit)**	0–255	
5	**5**	**Pan / Tilt Speed**	0	Standard (default)
			1	Max Speed
			2–255	Pan / Tilt Speed, fast to slow
6	**6**	**Control / Reset (hold 3 s)**	0–5	(reserved)
			6–7	Standby Mode: ON
			8–9	Standby Mode: OFF
			10–19	Reserved
			20–24	LCD ON
			25–29	LCD OFF
			30–31	Fans On During Black Out
			32–33	Fans Off During Black Out
			34–39	(reserved)
			40–44	Pan / Tilt Mode: Speed
			45–49	Pan / Tilt Mode: Time
			50–54	Blackout During Movement: ON
			55–59	Blackout During Movement: OFF
			60–64	Blackout During Gobo Transition: ON
			65–69	Blackout During Gobo Transition: OFF
			70–74	Blackout During Color Transition: ON
			75–79	Blackout During Color Transition: OFF
			80–84	Fan Mode: Auto
			85–89	Fan Mode: High
			90–91	Fan Mode: Quiet
			92–94	(reserved)
			95–99	Dimmer Curve: Super Square Law
			100–104	Focus Tracking: ON
			105–109	Focus Tracking: OFF
			110–114	Dimmer Curve: Square Law
			115–119	Dimmer Curve: Linear
			120–124	Parking Position: ON
			125–129	Parking Position: OFF
			130–139	Reset; ALL (excl. Pan/Tilt)
			140–149	Reset; Pan/Tilt

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M1	M2	Function	Value	Description
			150–159	Reset; Color System
			160–169	Reset; Gobo/Animation Wheel
			170–179	(reserved)
			180–189	Reset; Zoom/Focus/Frost/Prism
			190–199	Reset; Iris / Framing System
			200–209	Reset; ALL (incl Pan/Tilt.)
			210–218	Gobo Indexing: Max Speed + Shortcut Enabled
			221–222	Gobo Indexing: Follow Speed and Direction
			223–224	Gobo Indexing: Max Speed, Follow Direction
			225–255	(reserved)
7	**7**	**LED PWM Frequency**	0–4	Open
			5–9	300 Hz
			10–14	600 Hz
			15–19	1200 Hz
			20–24	2400 Hz
			25–255	(reserved)
8	**8**	**Reserved**	0–255	(reserved)
9	**9**	**Reserved**	0–255	(reserved)
10	**10**	**Color Wheel 1**	0–20	Open
			21	Deep Red
			43	Deep Blue
			64	Orange
			86	Green
			107	Congo Blue
			128–129	Open
			130–189	Color Wheel Indexing
			190–215	Clockwise Rotation, fast to slow
			216–217	Stop
			218–243	Counter Clockwise Rotation, slow to fast
			244–249	(reserved)
			250–255	Random Color Scroll, fast to slow
11	**11**	**Color Wheel 1 Index - Fine**	0–255	
12	**12**	**Color Wheel 2**	0–20	Open
			21	Color Split
			43	Laser Green
			64	Lavender
			86	CRI Filter 80
			107	CRI Filter 90
			128–129	Open
			130–189	Color Wheel Indexing
			190–215	Clockwise Rotation, fast to slow
			216–217	Stop

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M1	M2	Function	Value	Description
			218–243	Counter Clockwise Rotation, slow to fast
			244–249	(reserved)
			250–255	Random Color Scroll, fast to slow
13	**13**	**Color Wheel 2 Index - Fine**	0–255	
14	**14**	**Cyan**	0–255	0 White - 255 Full Cyan
15	**15**	**Magenta**	0–255	0 White - 255 Full Magenta
16	**16**	**Yellow**	0–255	0 White - 255 Full Yellow
17	**17**	**CTO**	0–255	0 White - 255 Full CTO
18	**18**	**(reserved)**	0–255	
19	**19**	**(reserved)**	0–255	
20	**20**	**(reserved)**	0–255	
21	**21**	**(reserved)**	0–255	
22	**22**	**(reserved)**	0–255	
23	**23**	**Animation Wheel**	0–19	Open
			20–127	Variable Position into Light Path
			128–255	(reserved)
24	**24**	**Animation Wheel Rotation**	0	No Rotation, default
			1–127	Clockwise Rotation, fast to slow
			128	Stop
			129–255	Counter Clockwise Rotation, slow to fast
25	**25**	**Animation Wheel Macro FX**	0–7	Open
			8–9	Macro 1
			10–11	Macro 2
			12–13	Macro 3
			14–15	Macro 4
			16–17	Macro 5
			18–19	Macro 6
			20–21	Macro 7
			22–23	Macro 8
			24–25	Macro 9
			26–27	Macro 10
			28–255	(reserved)
26	**26**	**Rotating Gobo Wheel 1**	*Index Mode – Position set on Gobo 1 Index/Rotation channel*	
			0–4	Open
			5–8	Gobo 1
			9–13	Gobo 2
			14–17	Gobo 3
			18–22	Gobo 4
			23–26	Gobo 5
			27–31	Gobo 6
			Rotation Mode – Rotation set on Gobo 1 Index/Rotation channel	
			32–36	Gobo 1
			36–40	Gobo 2
			41–44	Gobo 3

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M1	M2	Function	Value	Description
			45–49	Gobo 4
			50–54	Gobo 5
			55–59	Gobo 6
			Gobo Shake Index Mode – Index set on Gobo 1 Index/Rotation channel	
			60–71	Gobo 1
			72–83	Gobo 2
			84–95	Gobo 3
			96–106	Gobo 4
			107–118	Gobo 5
			119–129	Gobo 6
			Gobo Shake Rotate Mode – Rotation set on Gobo 1 Index/Rotation channel	
			130–141	Gobo 1
			142–153	Gobo 2
			154–165	Gobo 3
			166–176	Gobo 4
			177–188	Gobo 5
			189–199	Gobo 6
			202–222	Clockwise Rotation, fast to slow
			223–243	Counter Clockwise Rotation, slow to fast
			244–249	(reserved)
			250–255	Random Gobo Scroll, fast to slow
–	**27**	**Gobo Wheel 1 Position Fine**	0–255	
27	**28**	**Rotating Gobo 1 Index / Rotation**	*Gobo Index Modes - Set on Rotating Gobo Wheel 1 channel*	
			0–255	Gobo Indexing
			Gobo Rotation Modes - Set on Rotating Gobo Wheel 1 channel	
			0	No Effect, default
			1–127	Clockwise Rotation, fast to slow
			128	Stop
			129–255	Counter Clockwise Rotation, slow to fast
28	**29**	**Gobo Wheel 1 Index/Rotation Fine**	0–255	
29	**30**	**Rotating Gobo Wheel 2**	*Index Mode - Position set on Gobo 2 Index/Rotation channel*	
			0–4	Open
			5–8	Gobo 1
			9–13	Gobo 2
			14–17	Gobo 3
			18–22	Gobo 4
			23–26	Gobo 5
			27–31	Gobo 6
			Rotation Mode - Rotation set on Gobo 2 Index/Rotation channel	
			32–36	Gobo 1
			36–40	Gobo 2

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M1	M2	Function	Value	Description
			41–44	Gobo 3
			45–49	Gobo 4
			50–54	Gobo 5
			55–59	Gobo 6
			Gobo Shake Index Mode – Index set on Gobo 2 Index/Rotation channel	
			60–71	Gobo 1
			72–83	Gobo 2
			84–95	Gobo 3
			96–106	Gobo 4
			107–118	Gobo 5
			119–129	Gobo 6
			Gobo Shake Rotate Mode – Rotation set on Gobo 2 Index/Rotation channel	
			130–141	Gobo 1
			142–153	Gobo 2
			154–165	Gobo 3
			166–176	Gobo 4
			177–188	Gobo 5
			189–199	Gobo 6
			200–201	Open
			202–222	Clockwise Rotation, fast to slow
			223–243	Counter Clockwise Rotation, slow to fast
			244–249	(reserved)
			250–255	Random Gobo Scroll, fast to slow
–	**31**	**Gobo Wheel 2 Position Fine**	0–255	
30	**32**	**Rotating Gobo 2 Index / Rotation**	*Gobo Index Modes - Set on Rotating Gobo Wheel 2 channel*	
			0–255	Gobo Indexing
			Gobo Rotation Modes - Set on Rotating Gobo Wheel 2 channel	
			0	No Effect, default
			1–127	Clockwise Rotation, fast to slow
			128	Stop
			129–255	Counter Clockwise Rotation, slow to fast
31	**33**	**Gobo Wheel 2 Index/Rotation Fine**	0–255	
32	**34**	**Prism 1 (Circular)**	0–31	Open (Default 0)
			32–255	Prism Inserted
33	**35**	**Prism 1 Rotation**	0–3	No Rotation
			4–123	Prism Indexing
			124–187	Counter Clockwise Rotation, fast to slow
			188–191	Stop
			192–255	Clockwise Rotation, slow to fast
34	**36**	**Prism 2 (Linear)**	0–31	Open (Default 0)
			32–255	Prism Inserted

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M1	M2	Function	Value	Description
35	**37**	**Prism 2 Rotation**	0–3	No Rotation
			4–123	Prism Indexing
			124–187	Counter Clockwise Rotation, fast to slow
			188–191	Stop
			192–255	Clockwise Rotation, slow to fast
36	**38**	**Frost**	0	Open
			1–50	Light Frost 0 - 100%
			51–53	Light Frost Full
			54–63	Light Frost Pulse Close FX, slow to fast
			64–73	Light Frost Pulse Open FX, fast to slow
			74–83	Light Frost Ramp, fast to slow
			84–86	Open
			87–136	Medium Frost 0 - 100%
			137–139	Medium Frost Full
			140–149	Medium Frost Pulse Close FX, slow to fast
			150–159	Medium Frost Pulse Open FX, fast to slow
			160–169	Medium Frost Ramp, fast to slow
			170–255	Open
37	**39**	**Iris**	0	No Effect, default
			1–179	Big to Small
			180–191	Fully Closed
			192–219	Iris Macro 1, Pulse Open, slow to fast
			220–247	Iris Macro 2, Pulse Close, fast to slow
			248–249	Iris Macro 3, Open/Close Pulse, slow to fast
			250–255	(reserved)
38	**40**	**Iris Fine (16-Bit)**	0–255	
39	**41**	**Zoom**	0–255	Narrow to Wide, Default: 128
40	**42**	**Zoom Fine (16-Bit)**	0–255	
41	**43**	**Focus**	0–255	
42	**44**	**Focus Fine (16-Bit)**	0–255	
43	**45**	**Framing Shutter Assembly Rotation**	0–127	Clockwise 0 - 60º
			128	Center (default)
			129–255	Counter Clockwise 0 - 60º
44	**46**	**Framing Shutter 1 Insertion**	0–255	Outward to Full Inward
45	**47**	**Framing Shutter 1 Swivel**	0–127	-30 Degrees to Center
			128	Center (default)
			129–255	0 to 30 Degrees
46	**48**	**Framing Shutter 2 Insertion**	0–255	Outward to Full Inward
47	**49**	**Framing Shutter 2 Swivel**	0–127	-30 Degrees to Center
			128	Center (default)
			129–255	0 to 30 Degrees
48	**50**	**Framing Shutter 3 Insertion**	0–255	Outward to Full Inward
49	**51**	**Framing Shutter 3 Swivel**	0–127	-30 Degrees to Center

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M1	M2	Function	Value	Description
			128	Center (default)
			129–255	0 to 30 Degrees
50	**52**	**Framing Shutter 4 Insertion**	0–255	Outward to Full Inward
51	**53**	**Framing Shutter 4 Swivel**	0–127	-30 Degrees to Center
			128	Center (default)
			129–255	0 to 30 Degrees
52	**54**	**Shutter / Strobe**	0–31	Closed
			32–63	Open (Default 32)
			64–95	Strobe, slow to fast
			96–127	Open
			128–143	Pulse Open, slow to fast
			144–159	Pulse Close, fast to slow
			160–191	Open
			192–223	Random Strobe, slow to fast
			224–255	Open
53	**55**	**Dimmer**	0–255	
54	**56**	**Dimmer Fine (16-bit)**	0–255	

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11. Error Codes & Troubleshooting

Current faults are listed under **Information › System Errors**. Note any error message before contacting support.

[ENGINEERING TO SUPPLY] Physos error code list (display message, meaning and corrective action).

Troubleshooting

Symptom	Check
Fixture does not power on	Check the supply voltage, the powerCON TRUE1 connection and the circuit breaker.
No response to DMX	Check the DMX address and channel mode, that DMX Input is set to Wired, the cable and the terminator at the end of the line.
No response to Art-Net / sACN	Check DMX Input (Ethernet), Network mode, universe, IP address and net mask, and the network switch.
Erratic movement or flicker	Check for DMX conflicts, a missing terminator or damaged cable. Run a reset from Manual Control › Reset Functions.
Effect position is off	Run the matching reset; if it persists, contact VOLUX Technical Support (calibration is password protected).
Low output or overheating	Clean the lens and vents, check fan mode and ambient temperature, and keep 20 in (50 cm) clearance.
Condensation inside lens	Power off and let the fixture acclimatize to room temperature before use.

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12. Maintenance

WARNING Disconnect the fixture from power and let it cool before any cleaning or maintenance.

Dust, dirt and haze residue reduce light output, cause overheating and shorten the life of the LED engine and mechanics. Clean the fixture at least once a month; increase the frequency in dusty or hazy environments.

Task	Interval
Clean front lens	Weekly when haze or smoke is used; otherwise monthly
Clean exterior and vents	Monthly
Clean cooling fans and air paths	Monthly
Internal cleaning and inspection	Annually, by a VOLUX Authorized Dealer or Distributor
Check rigging hardware and safety cable	Before every installation
Check seals and connector covers (IP66)	Before every outdoor use

Cleaning

1. Disconnect the fixture from power.
2. Wait until the fixture is at room temperature.
3. Remove dust from the exterior and vents with a vacuum (or dry compressed air) and a soft brush.
4. Clean transparent surfaces with a mild soap solution or ammonia-free glass cleaner. Do not use alcohol or solvents.
5. Apply the solution to a soft, lint-free cotton cloth or lens tissue, not directly to the fixture.
6. Wipe dirt toward the outside edge of the lens, then gently polish until free of haze and lint.

CAUTION Do not spin the cooling fans with compressed air. Damage may result.

Gobos: see Section 9 for handling.

IP rating integrity

To keep the IP66 rating, seals and covers must be correctly fitted and torqued after any service. Contact VOLUX Technical Support for torque values and IP testing instructions. An IP tester is available from VOLUX for authorized service partners.

Firmware & disposal

Physos firmware is updated over Ethernet with the VOLUX update tool. Check voluxlighting.com or contact VOLUX Technical Support for the latest firmware. At end of life, recycle the fixture and its battery according to local regulations; do not dispose of them with household waste.

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13. Technical Specifications

OPTICAL	
Light source	1,000 W 7,500 K LED
Luminous flux	58,000 lm
Illuminance	142,000 lx (4.7°) / 2,930 lx (58°) at 16.4 ft (5 m)
CRI	≤72 native; CRI 80 / CRI 90 filters; TM-30 Rf 73, Rg 92
PWM	1,200 / 13,672 Hz, DMX adjustable
Source life	50,000 hours
Zoom	4.7°–58° (field 5.5°–62°)
Lens diameter	145 mm
Focus	16-bit motorized + auto-focus
COLOR	
Color mixing	Linear CMY + variable CTO 3,000–7,500 K
Color wheel 1	5 dichroic colors incl. UV
Color wheel 2	4 dichroic incl. CTB, CRI 80, CRI 90
Green correction	Mintra™ variable minus-green
EFFECTS	
Gobo wheels	2 × 6 rotating + open, interchangeable, 16-bit indexing
Gobo size	31 mm outer, 22 mm image, 1.1 mm thick
Animation wheel	Continuous CW/CCW rotation
Prisms	6-facet circular, 6-facet linear, rotating, indexable
Framing	4 blades, full blackout, 60° rotation
Iris	16-blade motorized
Frost	Soft edge + hard edge
Dimmer / strobe	18-bit linear; 1–25 Hz electronic strobe
CONTROL	
Protocols	DMX512, RDM, Art-Net, sACN
Channel modes	54CH Basic / 56CH Extended
Display	VOLUX Vi2 full-color LCD with touch buttons
Firmware	Update over Ethernet
ELECTRICAL	
Power supply	100–240 V AC, 50/60 Hz
Max power	1,200 W, power factor >0.96
PHYSICAL	
Dimensions (W × H × D)	17.4 × 30.6 × 11.0 in (441.5 × 777.5 × 280 mm)
Weight	84.6 lb (38.4 kg)
Pan / tilt	540° / 270°, 16-bit, multi-position locks
Ingress protection	IP66
Housing	Magnesium die-cast, flame-resistant polymer, aluminum alloy
Cooling	Forced air, variable speed, remotely adjustable
Connectors	Neutrik® powerCON TRUE1 TOP; 5-pin XLR in/thru; etherCON RJ45 in/thru
Rigging	2 quick-turn omega brackets (M13)

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14. Warranty & Service

Limited warranty

Physos is covered by the VOLUX limited warranty. For current warranty terms, coverage periods and exclusions, visit **voluxlighting.com/warranty-information** or refer to your purchase agreement.

Keep your proof of purchase showing the product name and date of purchase, and keep maintenance records. Both are required when warranty service is requested.

Obtaining service (RMA)

1. Contact VOLUX Technical Support at **support.voluxlighting.com** or your VOLUX Authorized Dealer or Distributor with a written description of the problem to obtain an RMA number.
2. Pack the fixture in its original packaging or equivalent protective packaging, and provide the package dimensions to receive an RMA shipping label.
3. Include proof of purchase, maintenance records and a brief description of the problem. Return the fixture in original, unaltered condition without accessories unless instructed otherwise.

Fixtures damaged in transit because of inadequate packaging may incur additional repair charges and may void the warranty. Shipments without a valid RMA number will be refused and returned at the sender's expense.

Non-warranty service

If a repair is not covered by the warranty, you will be billed for parts, labor, shipping and insurance. VOLUX will contact you with the repair cost before any work begins; payment is required in advance.

VOLUX LIGHTING

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