



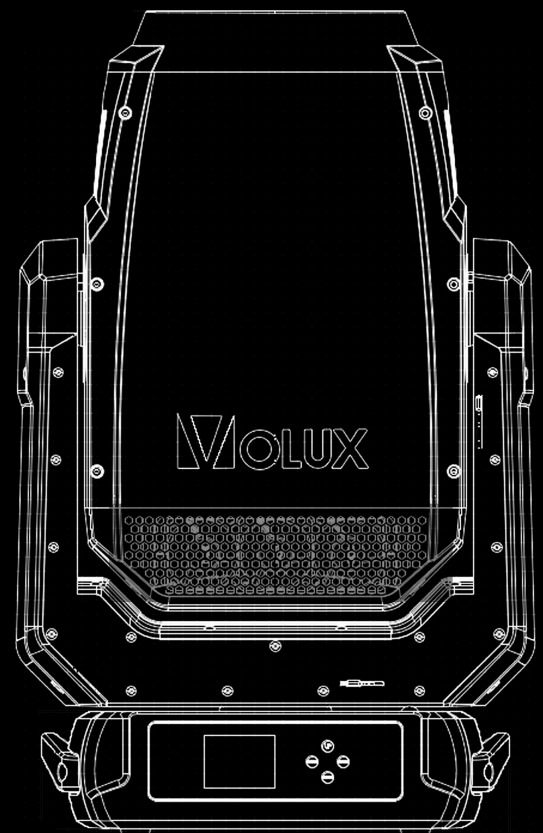
INNOVATIVE LUMINESCENCE



PHYTON

IP66 Hybrid-Profile Moving Head

USER MANUAL



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Thank you for choosing the VOLUX Phyton. This manual covers safe installation, rigging, setup, operation and maintenance of the fixture. Read it completely before installing or operating the unit, and keep it with the fixture for future reference. The latest version of this manual and current firmware are available at voluxlighting.com and from the VOLUX Support Portal at support.voluxlighting.com.

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1. Safety Information

WARNING

No user-serviceable parts. Any references to servicing this product are for competent, trained personnel. Do not open the housing or attempt repairs yourself; doing so will void the warranty. All applicable codes and regulations apply to installation.

WARNING

Risk of electric shock. Always connect the fixture to a grounded circuit. Never use a power cable without a ground prong, and never operate the fixture with a damaged housing, lens or cable.

CAUTION

Intense light and hot surfaces. Never look directly into the light source. Position the fixture so the audience cannot stare into the beam at close range. Do not touch the housing during operation.

User and audience safety

- This product is intended for professional use only. Do not install it yourself if you are not familiar with stage lighting.
- Keep the fixture at a safe distance from the audience's eyes where prolonged staring is not expected.

Mounting and rigging safety

- Always carry the fixture by its grip handles.
- Always use a safety cable when suspending the fixture overhead, and make sure all accessories and rigging hardware are tightly secured.
- Keep at least 20 in (50 cm) of clearance from adjacent surfaces for ventilation.
- Keep cables clear of the pan and tilt path.

Power safety

- Do not connect the fixture to a dimmer rack or rheostat.
- Connect only to the correct voltage and a stable power source.
- Disconnect the fixture from power (breaker or power cable) when not in use to prevent unnecessary wear. Never disconnect by pulling on the cable.
- Periodically check the on-board battery (if installed) for health and signs of defects.

Outdoor and environmental safety

- The Phyton is **IP66-rated and approved for outdoor use**. Do not submerge it.
- **Not for permanent installation in extreme environments**, including marine, saline or coastal locations (within 3 miles of salt water), locations where normal temperatures exceed the operating range, and locations prone to flooding or being buried in snow.
- Outdoors, use IP-rated power and data cables, and close all unused power and data ports with the attached weather seal covers.
- When moving the fixture between very different environments (for example, from a cold truck to a warm, humid ballroom), condensation may form. Let the fixture adjust to the environment before powering it on.

2. Product Overview

Phyton is a fully featured hybrid-profile luminaire that combines true beam capability, creative effects and high output in a compact, IP66-rated housing. Its **600 W LED engine** delivers **32,000 lumens** and up to **200,000 lux at 5 m**, with a **1.9°–52°** zoom for everything from tight long-throw beams to flat-field projection. A four-blade full-blackout framing system, static and rotating gobos, six layerable prisms, an iris, animation wheel and dual frost are paired with CMY + CTO color mixing, a color wheel with a CRI90 filter and MINTRA minus-green adjustment.

Key features

Feature	Detail
Light engine	600 W, 6,500 K LED • 32,000 lm • 200,000 lx @ 5 m • 50,000-hour rated life
Zoom & focus	1.9°–52° motorized zoom • 16-bit motorized focus • 170 mm front lens • 0.7° beam with iris
Color	Linear CMY • variable CTO 3,000–7,500 K • 7-slot dichroic color wheel incl. CRI90 filter • MINTRA minus-green
Framing	4 full-blackout blades • 60° system rotation • FX macros
Gobos	8 rotating, indexing, interchangeable gobos + open • 8 static gobos + beam reducer
Effects	6 layerable prisms on two planes • 16-blade motorized iris • animation wheel • soft and hard frost
Control	DMX512, RDM, Art-Net, sACN, LumenRadio CRMX • 52-channel Standard / 46-channel Reduced
Environment	IP66 for outdoor use • magnesium die-cast, aluminum and flame-resistant polymer construction

Package contents

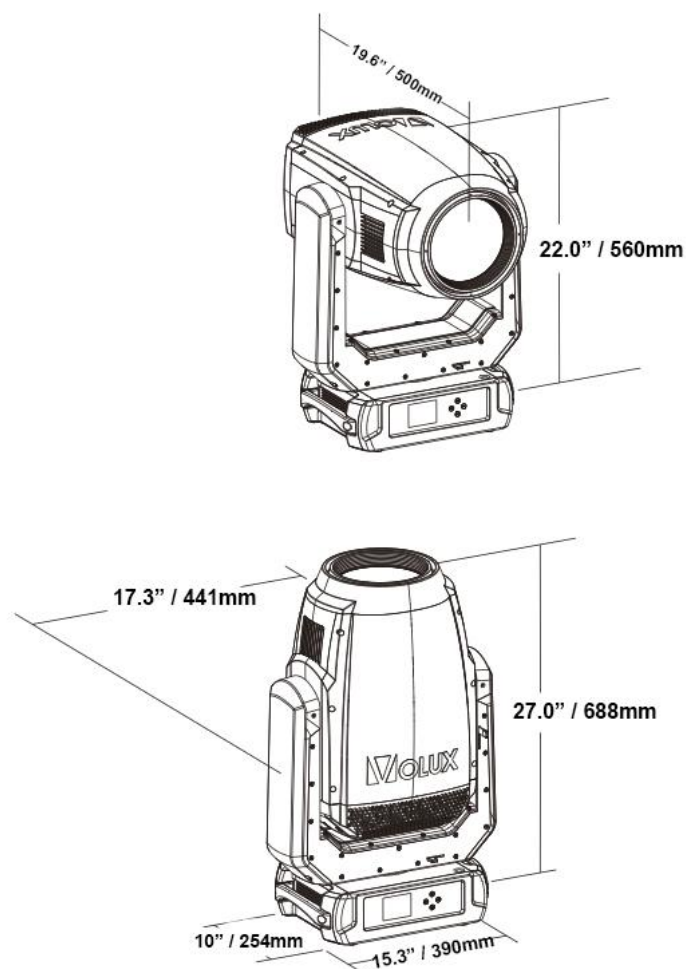
Qty	Item
1	Phyton Profile moving head
1	PowerCON TRUE1 power cable
1	5-pin XLR DMX cable
2	ERGO-LOK omega brackets
1	Safety cable
1	Rubberized SIP case insert

Quantities may vary with the original order configuration; refer to the packing list or invoice. Optional upgrades: white housing, hardwired connections.

Claims

Unpack the fixture immediately and check that all parts are present and in good condition. If the box or contents show shipping damage, contact the carrier immediately; failure to report damage promptly may invalidate your claim. Report missing parts or damage not related to shipping to your VOLUX Authorized Dealer or Distributor within 7 days of delivery.

3. Fixture Dimensions

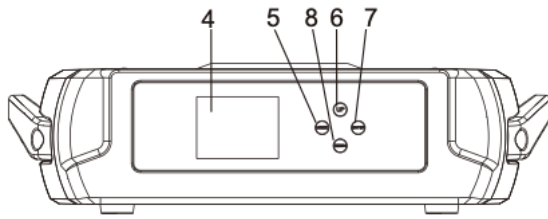


Dimensions shown in inches / millimeters.

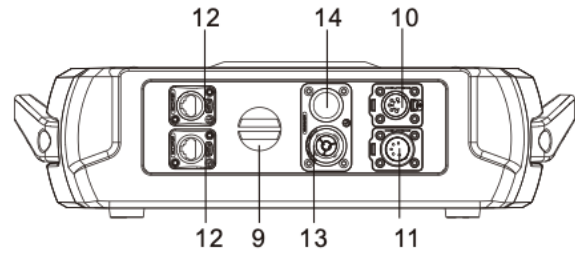
Dimension	Value
Overall height, head upright	27.0 in (688 mm)
Overall height, head horizontal	22.0 in (560 mm)
Head length	19.6 in (500 mm)
Overall depth (head upright)	17.3 in (441 mm)
Base width × depth	15.3 × 10.0 in (390 × 254 mm)
Net weight	68.3 lb (31 kg)

Allow additional clearance for the head's full movement range and at least 20 in (50 cm) around the fixture for ventilation.

4. Controls & Connections



CONTROL PANEL (front of base)



CONNECTION PANEL (rear of base)

No.	Item	Function
4	Display	Full-color LCD for setup and status (VOLUX Vi2 interface). Auto-rotates with the mounting orientation.
5	MODE	Open the menu / go back one level. Press twice to wake the menu on battery power.
6	UP	Scroll up / increase value.
7	ENTER	Select / confirm.
8	DOWN	Scroll down / decrease value.
9	Battery compartment	Holds the optional on-board battery (see below).
10 / 11	DMX IN / OUT (5-pin XLR)	DMX512 / RDM input (female) and link output (male).
12	Network IN / THRU (RJ45)	Art-Net and sACN input and link-through.
13	POWER IN	PowerCON TRUE1 mains input, 100–240 V AC, 50/60 Hz.
14	POWER OUT	PowerCON TRUE1 link output to additional fixtures.

On-board battery

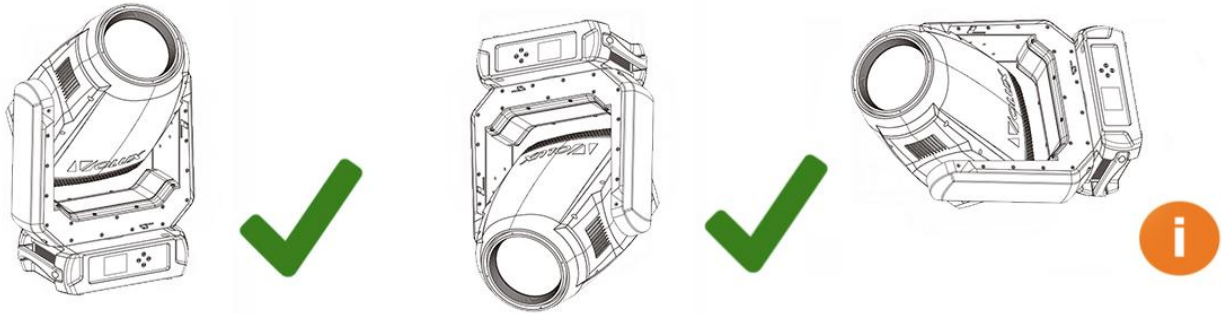
The on-board battery lets you address the fixture and change settings while it is unplugged: press **MODE** twice to turn on the menu. The battery is fitted through the battery compartment on the connection panel (item 9) and recharges when the fixture is powered. Disconnect power first, and make sure the compartment seal is fully closed afterwards to maintain the IP66 rating.

CAUTION

Batteries are not included. VOLUX battery-enabled fixtures ship without batteries due to shipping regulations. Use only the specified battery type and follow lithium-ion shipping regulations.

5. Rigging

The Phyton may be hung from a truss, placed upright on a flat surface or, with care, mounted horizontally. Rigging must be carried out by qualified personnel in accordance with local codes and regulations.



Mounting orientations: upright and hanging are recommended; horizontal mounting requires additional caution.

NOTE

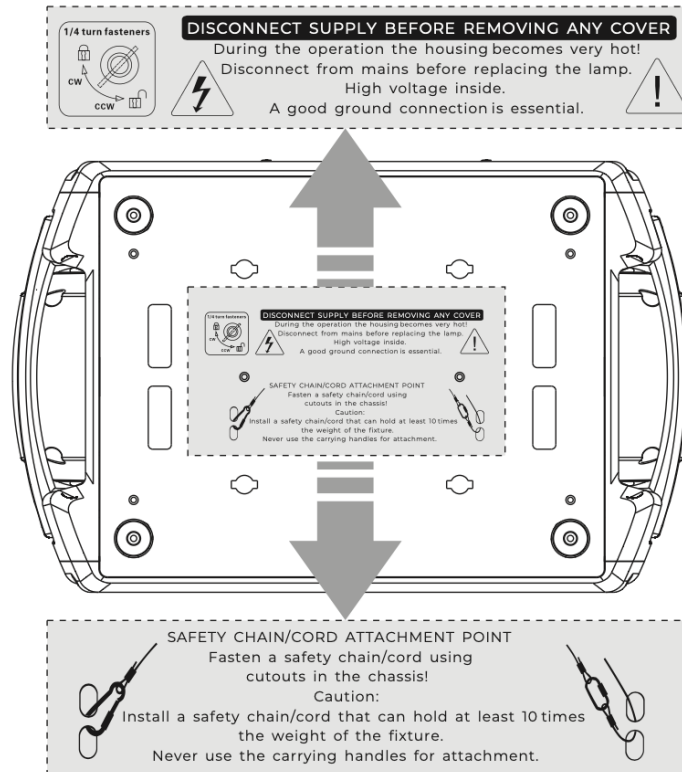
Due to the size and weight of the Phyton, take additional care when mounting the fixture horizontally. Prolonged installation in this orientation may place additional strain on the pan and tilt motors.

WARNING

Never stand directly below the fixture while rigging, de-rigging or servicing. Never use the carrying handles to attach the fixture or safety cable.

Load and safety requirements

- Use the two included ERGO-LOK omega brackets to secure the fixture to the rigging. The omega bracket hole size is **M13**.
- When rigging overhead, always fit a **safety cable rated for at least 10 times** the fixture weight (31 kg / 68.3 lb), attached through the dedicated cutouts in the chassis.
- Use clamps sized for the truss tube with a working load limit appropriate for the fixture weight and safety factor.
- Inspect brackets, clamps, fasteners and safety cables before each installation.



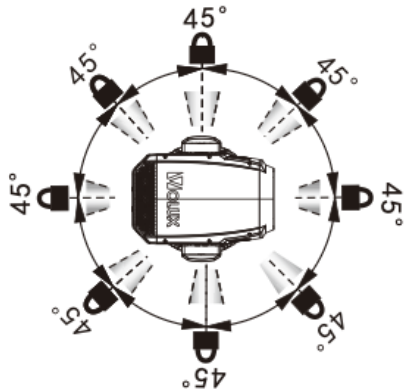
Underside of the base: quarter-turn omega fastener points and safety cable attachment cutouts.

Overhead installation

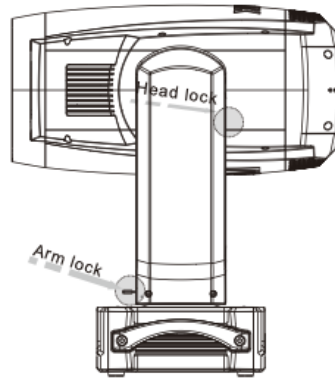
1. Bolt a rated clamp to each omega bracket.
2. Engage the pan and tilt locks so the head cannot swing while lifting.
3. Align each omega bracket with its fasteners on the underside of the base and turn the quarter-turn fasteners clockwise until they lock.
4. Lift the fixture into position from a stable platform and tighten the clamps onto the truss.
5. Pass the safety cable through the truss and the chassis cutouts and close it.
6. Release the pan and tilt locks and confirm the head has unobstructed movement.
7. Have a second qualified person check the installation before applying power.

Pan / tilt locks

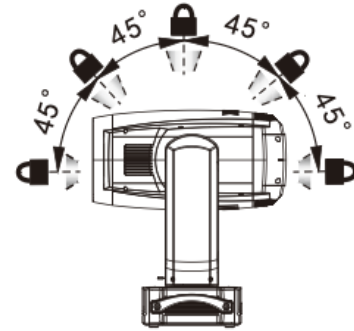
Pan and tilt locks secure the head for transport, rigging and maintenance, with locking positions every 45°. Release both locks before applying power. The fixture resets automatically at power-up and returns to position if moved by an external force.



PAN Mechanism Lock Fig.2-1



Level vertical transportation lock Fig.2



Tilt Mechanism Lock Fig.2-2

Pan lock positions, transport lock locations and tilt lock positions.

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

The Phyton has an auto-ranging power supply and operates on **100–240 V AC, 50/60 Hz** (900 W maximum, power factor > 0.96). It is supplied with a PowerCON TRUE1 power cable terminated with an Edison (US) plug. Power link cables are available from VOLUX. To size circuits, use the current rating on the specification sheet or product label.

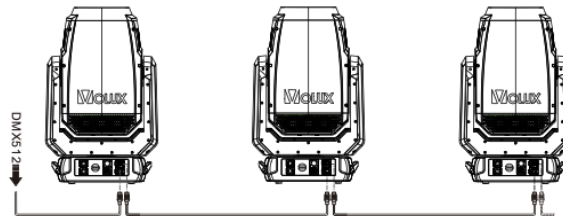
Supply voltage	Max. fixtures per power link
110–120 V	2
208 V	3
230–240 V	5

CAUTION

Always connect the fixture to a protected, grounded circuit. Outdoors, use IP65 or higher rated power and data cables and close all unused ports with the attached weather seal covers.

Wired DMX512 / RDM

- Connect the console's DMX output to **DMX IN** (5-pin XLR) and link further fixtures from **DMX OUT**.
- Use shielded 120 ohm DMX cable, connect in a daisy chain only, and fit a 120 ohm terminator to the last fixture.
- One DMX universe supports up to 9 Phyton fixtures in Standard mode (11 in Reduced mode).



DMX daisy chain.

Art-Net / sACN

- Connect a network cable to the RJ45 network input. Art-Net and sACN are accepted in all personality modes. VOLUX recommends unicast Art-Net.
- Set **DMX Setup > DMX input** to **Ethernet Input**, choose Art-Net or sACN under **Network > Mode**, and set the universe and IP settings.
- **Ethernet-to-DMX**: set the first fixture to **Ethernet In / XLR Out** to re-transmit the received universe from its DMX OUT to downstream fixtures.

Wireless DMX (CRMX/WDMX)

1. Set **DMX Setup > DMX input** to **Wireless In / XLR Out**.
2. To clear a previous pairing, select **Connection > Unlink**.
3. Start the link function on the CRMX/WDMX transmitter, or select **Connection > Link** on the fixture if required.
4. When linked, the fixture receives wireless data and re-transmits it from DMX OUT.

7. Menu Operation

Navigating the menu

- Press **MODE** to open the menu or go back one level.
- Use **UP** / **DOWN** to move between items and **ENTER** to select or confirm a value.
- With the fixture unplugged, press **MODE** twice to wake the menu on battery power (battery required).

Menu structure

Main menu	Item	Options / values	Description
DMX Setup	DMX Address	001–512	Fixture start address.
	Channel Mode	Mode 1 / Mode 2	Mode 1: Standard, 52 channels (default). Mode 2: Reduced, 46 channels.
	DMX input	Wired Input, Ethernet Input, Ethernet In/XLR Out, Wireless In/XLR Out	Control source. In/XLR Out options re-transmit data from DMX OUT.
	Network	Mode (Art-Net / sACN), Art-Net universe 0–255, sACN universe 0001–9999, IP address, Net mask, Reset IP setup	Network protocol and addressing. Art-Net universe 0–255 = universes 1–256.
	Connection	Link / Unlink	Link or unlink the CRMX/WDMX wireless connection.
	RDM	On / Off	Enable or disable RDM.
Option setup	Pan invert	Off / On	Reverse pan direction.
	Tilt invert	Off / On	Reverse tilt direction.
	Feedback	Off / On	Automatic position correction.
	Pan/Tilt mode	Speed / Time	Pan/tilt movement based on speed or time.
	Frequency	300 / 600 / 1,200 / 2,400 Hz	LED PWM frequency.
	Fan Mode	Auto / Performance / Super Quiet	Cooling and noise mode.
	Blackout Settings	Off / On	Blackout while effects change position.
	Dimmer Curve	Linear / Square law / Super square law	Dimming curve.
	Display	Off / On	Display backlight.
	Auto Screen	Off / On	Automatic display rotation.
Information	System Errors	–	Current errors.
	Fixture hours	Resettable time / Total time	Fixture running hours (resettable and lifetime).
	LED hours	Resettable time / Total time	Light source running hours (resettable and lifetime).
	DMX Values	–	Current DMX value of every channel.

Main menu	Item	Options / values	Description
	Fixture temperatures	–	LED and base temperatures.
	RDM UID	–	Fixture RDM unique ID.
	Board info	–	Firmware version of every driver board.
Manual Control	Reset Functions	Total, Pan/Tilt, Colour System, Gobo/Effect, Optics/Prism/Frost, Iris/Framing	Reset all motors or a group of motors.
	Channels	Each function, 0–255	Manually drive any channel to test the fixture.
Advanced	Calibrations	Password	Factory calibration. Service personnel only.
	Menu Locking	Off / On / Enter Password	Lock the menu with a password.
	Factory Default	Yes / No	Restore factory settings.

Common procedures

Set the DMX mode and address

1. Go to **DMX Setup > Channel Mode** and select Mode 1 (Standard, 52 channels) or Mode 2 (Reduced, 46 channels).
2. Go to **DMX Setup > DMX Address** and set the start address. With several fixtures on one line, add the channel count to the previous start address: Standard 001, 053, 105, 157... Reduced 001, 047, 093, 139...

Invert pan or tilt

1. Make sure menu locking is off.
2. Go to **Option setup**.
3. Select **Pan invert** or **Tilt invert**, set it to **On** and press ENTER.

8. Operation & Effects

Fan modes

Fan mode	Recommended use
Performance	Maximum sustained output; concerts, large venues and outdoor events
Auto	General use; fan speed follows internal temperature
Super Quiet	Noise-sensitive spaces; output may be reduced to protect the LED engine

LED lifespan

LEDs gradually lose brightness over time, mainly due to heat. The estimated lifespan under normal conditions is approximately 50,000 hours. You can extend LED life and keep brightness and color consistent across fixtures by improving ventilation, lowering the ambient temperature and avoiding continuous operation at full output for long periods.

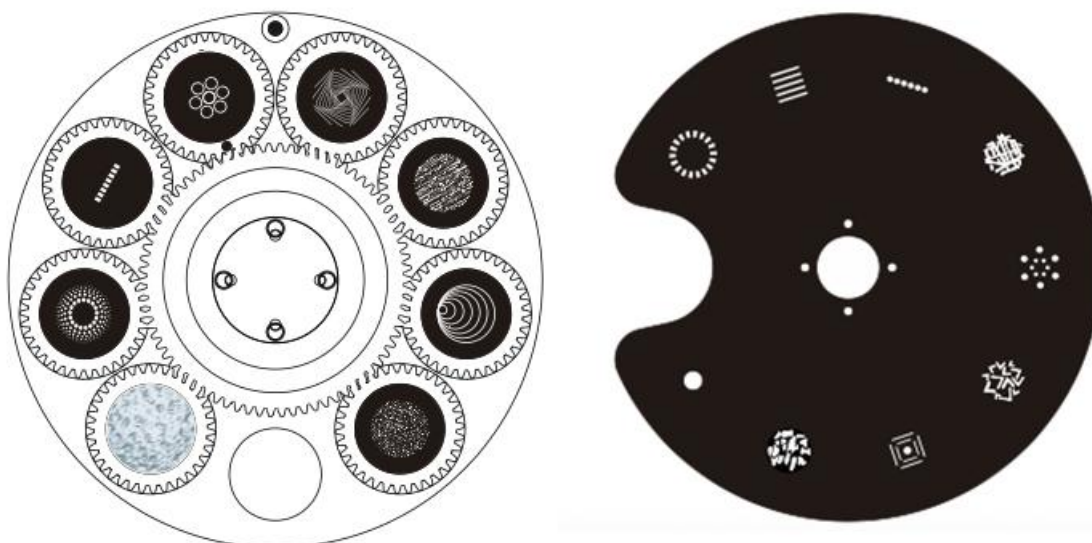
Effects reference

Effect	Operation
Zoom / focus	1.9°–52° zoom (field angle 2.7°–58°) with 16-bit motorized focus.
Framing	Four full-blackout blades, each with movement and angle control. The framing system rotates 60°; FX macros are available.
Iris	16-blade motorized iris; down to a 0.7° beam for long-throw aerial effects.
Rotating gobos	8 interchangeable gobos + open with 16-bit indexing, continuous rotation, gobo shake and wheel scroll.
Static gobos	8 gobos plus a beam reducer.
Prisms	6 layerable prisms on two planes (4-facet, 16-facet and 4-facet linear configurations), rotating and indexable.
Animation wheel	Continuous rotation in both directions with positioning.
Frost	Soft-edge and hard-edge frost filters.
Color	Linear CMY, variable CTO 3,000–7,500 K, 7-slot color wheel with CRI90 filter, split colors and scroll, virtual color wheel and MINTRA minus-green correction.
Dimmer & strobe	16-bit linear dimmer with adjustable speed and selectable curves; 1–25 Hz electronic strobe.
LED frequency	Selectable 300, 600, 1,200 or 2,400 Hz in the menu; adjustable via DMX for flicker-free camera work.

9. Gobos & Gobo Replacement

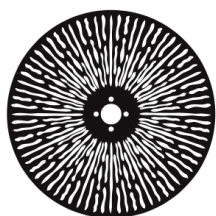
The Phyton has a **rotating gobo wheel** with 8 interchangeable, indexing gobos plus open, and a **static gobo wheel** with 8 gobos plus a beam reducer.

Gobo dimension	Size
Outer diameter	20 mm
Image diameter	13 mm
Thickness	1.1 mm



Left: rotating gobo wheel. Right: static gobo wheel.

Animation wheel



The animation wheel rotates continuously in either direction and can be positioned. Combine it with a gobo, frost and the framing system to create fire, water and moving-texture effects.

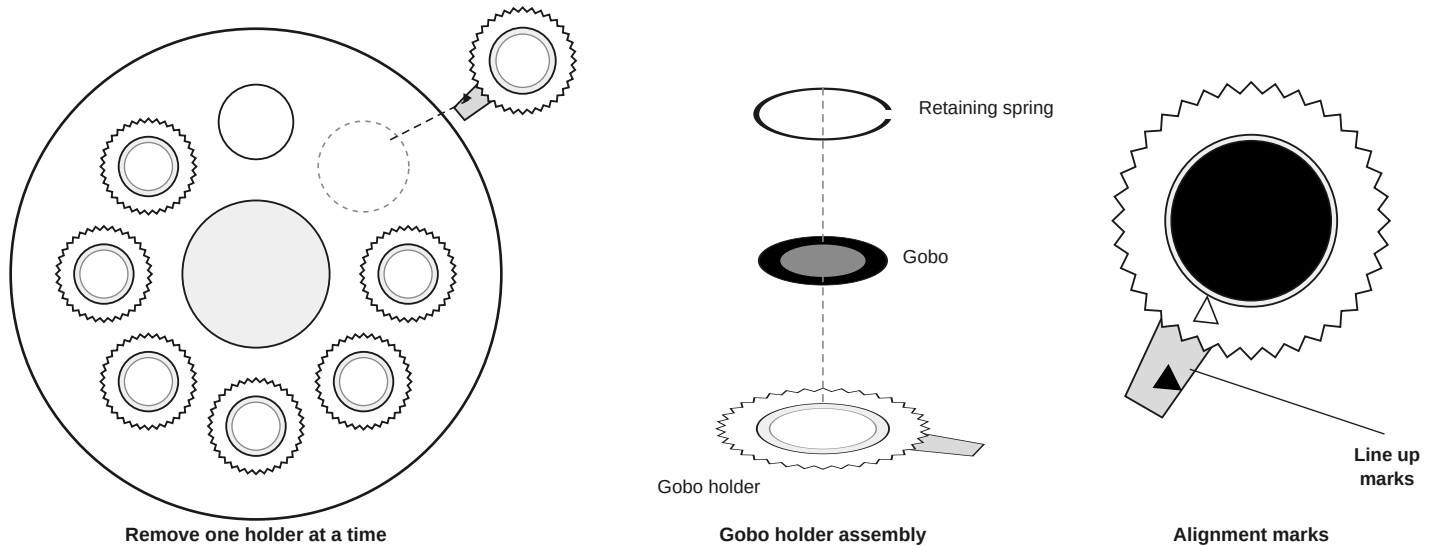
Replacing gobos

WARNING

Disconnect mains power and allow the fixture to cool before opening the head. **Opening any cover breaks the IP66 seal.** After any cover has been removed, the fixture must be resealed to the specified torque and IP-tested before outdoor use. Contact VOLUX Technical Support for torque values and IP test instructions. Gobo replacement should be carried out by qualified service personnel.

Custom gobos

- Custom gobos must match the original size (20 mm outer diameter, 13 mm image diameter, 1.1 mm thick) and be made of equivalent high-temperature glass with a high-temperature coating. Damage caused by unsuitable gobos is not covered by warranty.
- Do not use gobos with black coating on both sides; they absorb heat and fail early.

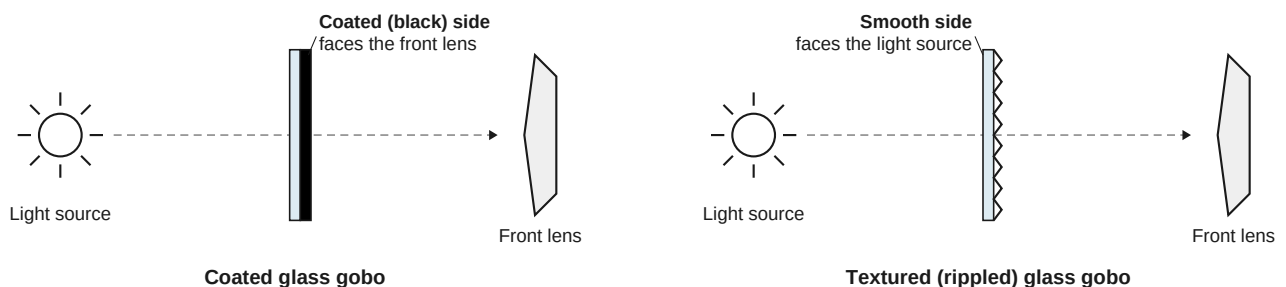


Gobo wheel, gobo holder assembly and alignment marks. Schematic only.

Removing and installing a gobo

1. Disconnect power, allow the fixture to cool and remove the head cover. Wear clean nitrile gloves.
2. Turn the gobo wheel by hand until the gobo is accessible, then lift out one gobo holder at a time, noting the position of its tab.
3. Using a plastic pry tool, remove the retaining spring and lift out the gobo by its edges.
4. Fit the new gobo with the **coated (black) side facing the front lens** (textured glass: **smooth side toward the light source**), aligned with the holder's mark.
5. Refit the retaining spring flat and even, and return the holder to its original position with the alignment marks lined up.
6. Refit the head cover to the specified torque, perform an IP test, then restore power and check gobo selection, indexing and rotation.

Gobo orientation



10. DMX Channel Chart

The Phyton offers two DMX modes, selected under **DMX Setup > Channel Mode: Mode 1 – Standard (52 channels, default)** and **Mode 2 – Reduced (46 channels)**. The Reduced mode omits the 16-bit fine channels for the color wheel, gobo indexing, iris, zoom, focus and dimmer. Channels shown with – are not present in that mode. Rotation direction depends on the head orientation and pan/tilt settings.

M1 52CH	M2 46CH	Function	DMX value	Setting
1	1	Pan	0–255	Pan, 0–540° (default 128)
2	2	Pan fine	0–255	16-bit fine control
3	3	Tilt	0–255	Tilt, 0–270° (default 128)
4	4	Tilt fine	0–255	16-bit fine control
5	5	Pan / tilt speed	0	Standard (default)
			1	Maximum speed
			2–255	Speed, fast to slow
6	6	Control / reset *	0–5	Reserved
			6–7	Standby mode on
			8–9	Standby mode off
			10–19	Reserved
			20–24	Display on
			25–29	Display off
			30–31	Fans on during blackout
			32–33	Fans off during blackout
			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 change on
			65–69	Blackout during gobo change off
			70–74	Blackout during color change on
			75–79	Blackout during color change off
			80–84	Fan mode: Auto
			85–89	Fan mode: High (Performance)
			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 (except pan/tilt)
			140–149	Reset pan/tilt
			150–159	Reset color system
			160–169	Reset gobo / animation wheel

M1 52CH	M2 46CH	Function	DMX value	Setting
			170–179	Reserved
			180–189	Reset zoom / focus / frost / prism
			190–199	Reset iris / framing
			200–209	Reset all (including 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 (default 10)
			15–19	1,200 Hz
			20–24	2,400 Hz
			25–255	Reserved
8	8	Reserved	0–255	Reserved
9	9	Reserved	0–255	Reserved
10	10	Color wheel	<i>Variable</i>	<i>Continuous positioning</i>
			0–14	Open
			15	Deep red
			30	Green
			45	Deep blue
			60	Orange
			75	Lime
			90	CRI90
			105	UV
			120–140	Open
			<i>Fixed</i>	<i>Slot positions</i>
			141–145	Deep red
			146–150	Green
			151–155	Deep blue
			156–160	Orange
			161–165	Lime
			166–170	CRI90
			171–175	UV
			176–185	Open
			186–211	Rotate clockwise, fast to slow
			212–217	Stop
			218–243	Rotate counterclockwise, slow to fast
			244–255	Random color scroll, fast to slow
11	–	Color wheel fine	0–255	Fine positioning
12	11	Cyan	0–255	White to full cyan
13	12	Magenta	0–255	White to full magenta
14	13	Yellow	0–255	White to full yellow
15	14	CTO	0–255	White to full CTO
16	15	MINTRA minus-green	0	No function
			1–127	Minus green
			128	Uncorrected white

M1 52CH	M2 46CH	Function	DMX value	Setting
			129–255	Plus green
17	16	Virtual color wheel	0–255	Preselected CMY colors
18	17	Color effects speed	0–255	Fast to slow
19	18	CMY / CTO transition time	0–255	Fast to slow
20	19	Prism / zoom / focus / iris / framing time	0–255	Fast to slow
21	20	Animation wheel	0–19 20–127 128–255	Out Variable position into the beam Animation wheel macro FX, fast to slow
22	21	Animation wheel rotation	0 1–127 128 129–255	No rotation (default) Rotate clockwise, fast to slow Stop Rotate counterclockwise, slow to fast
23	22	Animation wheel macro FX	0–7 8–27 28–255	Off Macros 1–10 (2 values each) Reserved
24	23	Rotating gobo wheel	<i>Index</i> 0–4 5–7 8–10 11–13 14–16 17–19 20–22 23–26 27–31 <i>Rotate</i> 32–34 35–37 38–40 41–43 44–46 47–49 50–54 55–59 <i>Shake, index</i> 60–68 69–77 78–86 87–95 92–99 100–107 108–115 116–123 <i>Shake, rotate</i> 130–137 138–145	<i>Position set on the gobo index/rotation channel</i> Open Gobo 1 Gobo 2 Gobo 3 Gobo 4 Gobo 5 Gobo 6 Gobo 7 Gobo 8 <i>Rotation set on the gobo index/rotation channel</i> Gobo 1 Gobo 2 Gobo 3 Gobo 4 Gobo 5 Gobo 6 Gobo 7 Gobo 8 Gobo 1 Gobo 2 Gobo 3 Gobo 4 Gobo 5 Gobo 6 Gobo 7 Gobo 8

M1	M2	Function	DMX value	Setting
52CH	46CH			
			146–153	Gobo 3
			154–161	Gobo 4
			162–169	Gobo 5
			170–177	Gobo 6
			178–185	Gobo 7
			186–193	Gobo 8
			194–201	Open
			202–222	Wheel scroll clockwise, fast to slow
			223–243	Wheel scroll counterclockwise, slow to fast
			244–249	Reserved
			250–255	Random gobo scroll, fast to slow
25	24	Rotating gobo index / rotation	<i>Index</i>	<i>When an index slot is selected</i>
			0–255	Gobo indexing
			<i>Rotate</i>	<i>When a rotate slot is selected</i>
			0	No rotation (default)
			1–127	Rotate clockwise, fast to slow
			128	Stop
			129–255	Rotate counterclockwise, slow to fast
26	–	Rotating gobo index / rotation fine	0–255	Fine control
27	25	Static gobo wheel	0–6	Open
			7–10	Gobo 1: beam reducer / prism focus
			11–14	Gobo 2
			15–18	Gobo 3
			19–22	Gobo 4
			23–26	Gobo 5
			27–30	Gobo 6
			31–34	Gobo 7
			35–38	Gobo 8
			39–42	Gobo 9
			43–202	Gobo 1–8 shake, slow to fast (20 values each: 43–62, 63–82 ... 183–202)
			203–222	Open
			223–237	Wheel scroll clockwise, fast to slow
			241–255	Wheel scroll counterclockwise, slow to fast
28	26	Prism wheel 1	0–3	Open (default)
			<i>Index</i>	
			4–7	Prism 1
			8–11	Prism 2
			12–15	Prism 3
			<i>Rotate</i>	
			16–19	Prism 1
			20–23	Prism 2
			24–27	Prism 3
			28–255	Reserved
29	27	Prism wheel 1 index / rotation	<i>Index</i>	<i>When an index slot is selected</i>
			0–255	Prism indexing

M1	M2	Function	DMX value	Setting
52CH	46CH		<i>Rotate</i>	<i>When a rotate slot is selected</i>
			0	No rotation (default)
			1–127	Rotate clockwise, fast to slow
			128	Stop
			129–255	Rotate counterclockwise, slow to fast
30	28	Prism wheel 2	0–3	Open (default)
		<i>Index</i>	4–7	Prism 1
			8–11	Prism 2
			12–15	Prism 3
		<i>Rotate</i>	16–19	Prism 1
			20–23	Prism 2
			24–27	Prism 3
			28–255	Reserved
31	29	Prism wheel 2 index / rotation	<i>Index</i>	<i>When an index slot is selected</i>
			0–255	Prism indexing
		<i>Rotate</i>	<i>When a rotate slot is selected</i>	
			0	No rotation (default)
			1–127	Rotate clockwise, fast to slow
			128	Stop
			129–255	Rotate counterclockwise, slow to fast
32	30	FX module animation macros	0–3	No effect (default)
			4–27	Static macros 1–12 (2 values each)
			28–67	Rotating macros 1–20 (2 values each)
			68–255	Reserved
33	31	Animation macro index / rotation	<i>Static macro</i>	
			0–255	Indexing
		<i>Rotating macro</i>	<i>When a rotate slot is selected</i>	
			0	No rotation (default)
			1–127	Rotate clockwise, fast to slow
			128	Stop
			129–255	Rotate counterclockwise, slow to fast
34	32	Frost	0	Open
			1–50	Light frost 0–100%
			51–53	Light frost full
			54–63	Light frost pulse close, slow to fast
			64–73	Light frost pulse open, 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, slow to fast
			150–159	Medium frost pulse open, fast to slow
			160–169	Medium frost ramp, fast to slow
			170–255	Open

M1 52CH	M2 46CH	Function	DMX value	Setting
35	33	Iris	0	Open (default)
			1–179	Large 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
36	–	Iris fine	0–255	16-bit fine control
37	34	Zoom	0–25	Narrow, long-throw focusing (focus channels disabled)
			26–255	Narrow to wide
38	–	Zoom fine	0–255	16-bit fine control
39	35	Focus	0–255	Focus
40	–	Focus fine	0–255	16-bit fine control
41	36	Framing rotation	0–127	Clockwise 0–60°
			128	Center (default)
			129–255	Counterclockwise 0–60°
42	37	Framing blade 1 insertion	0–255	Out to fully in
43	38	Framing blade 1 swivel	0–127	–30° to center
			128	Center (default)
			129–255	Center to +30°
44	39	Framing blade 2 insertion	0–255	Out to fully in
45	40	Framing blade 2 swivel	0–127	–30° to center
			128	Center (default)
			129–255	Center to +30°
46	41	Framing blade 3 insertion	0–255	Out to fully in
47	42	Framing blade 3 swivel	0–127	–30° to center
			128	Center (default)
			129–255	Center to +30°
48	43	Framing blade 4 insertion	0–255	Out to fully in
49	44	Framing blade 4 swivel	0–127	–30° to center
			128	Center (default)
			129–255	Center to +30°
50	45	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
51	46	Dimmer	0–255	0–100%
52	–	Dimmer fine	0–255	16-bit fine control

* Control / reset functions take effect after the value is held for 3 seconds. Return the channel to 0 afterwards to avoid repeated activation.

11. Troubleshooting

Current faults are shown under **Information > System Errors**. Note any error shown before contacting support.

Symptom	Possible cause	Action
Fixture does not power on	No mains power; loose connector; damaged cable	Check the supply and breaker; reseal the PowerCON connector; inspect the cable.
No response to control	Wrong address, mode or DMX input setting; cable disconnected	Check DMX Address, Channel Mode and DMX input against the console; check cables.
Erratic or intermittent response	Missing terminator; faulty cable; faulty fixture on the line	Fit a 120 ohm terminator; replace suspect cables; isolate fixtures one at a time.
Head does not move or jitters	Pan or tilt lock engaged; obstruction	Release both locks, clear the movement path and run a Pan/Tilt Reset.
Reduced output or shutdown	Over-temperature; blocked vents; Super Quiet fan mode	Clean fans and vents, improve ventilation, select Auto or Performance fan mode.
Scan lines on camera	LED frequency unsuitable for the camera shutter	Select a higher LED frequency in the menu or via DMX.
Moisture inside the lens	Condensation after temperature change; compromised seal	Allow the fixture to acclimatize and run it to vent moisture; if it persists, contact VOLUX Support for an IP test.

If a problem persists, contact VOLUX Technical Support with the fixture serial number and any error shown.

12. Maintenance

Dust accumulation reduces light output and can cause overheating, shortening LED life and increasing mechanical wear. Clean the fixture at least once a month, and more often in heavy use or harsh conditions. Keep a written maintenance record for each fixture and supply it with any warranty claim.

WARNING

Unplug the fixture and let it cool to room temperature before cleaning or maintenance.

Cleaning

1. Unplug the fixture and wait until it is at room temperature.
2. Remove dust from the exterior and vents with a vacuum or dry compressed air and a soft brush. Do not spin the cooling fans with compressed air.
3. Clean transparent surfaces with a mild soap solution or ammonia-free glass cleaner applied to a soft, lint-free cloth or lens tissue.
4. Gently wipe dirt toward the outside edge, then polish until free of haze and lint.

IP66 maintenance schedule

Interval	Task
Every 30 days (exterior)	With power off, inspect the chassis for contaminants and clean the optics and housing. Inspect power and data connectors for corrosion; clean or replace as needed and reapply dielectric grease, especially in coastal settings. Inspect mounting hardware. A durable wax coating helps prevent build-up.
Every 30 days (interior)	Inspect focus/zoom mechanisms and lubricate linear bearings as needed; inspect belts; turn effect wheels and color/CMY modules by hand and check for resistance; check fans; clean with low-volume compressed air and clean optics before refitting the head covers.
Annually / 10,000 hours	Replace the cooling fans. Replace the vent valves annually as a preventive measure.
After any cover removal	Reseal to the specified torque and perform an IP test.

Belts, PCBs, motors and LEDs have no fixed replacement interval; replace as needed. Maintenance applies even when the fixture is not in use.

Coastal and maritime installations

Salt air and humidity near the sea (within about 5 miles) are corrosive even to IP-rated fixtures, because IP ratings are based on fresh water. These installations need more frequent servicing, and periodic operation during humid, cold periods helps expel moisture through the vent valve.

IP rating integrity and testing

Contact VOLUX Technical Support for torque values and IP test instructions. An IP tester is available from VOLUX to authorized service partners.

Firmware updates

Firmware is updated over Ethernet. Download current firmware and instructions from the VOLUX Support Portal, and do not remove power or data during an update.

13. Technical Specifications

OPTICAL

Source	600 W LED, 6,500 K, 50,000-hour rated life
Luminous flux	32,000 lm
Illuminance @ 5 m	200,000 lx (1.9°) 3,330 lx (52°)
CRI	Native ≤72 CRI90 filter selectable
Zoom / field / lens	1.9°–52° field angle 2.7°–58° 170 mm front lens
Focus	16-bit motorized
PWM	1,200 Hz / 13,672 Hz (DMX adjustable)

COLOR & EFFECTS

Color mixing	Linear CMY variable CTO 3,000–7,500 K MINTRA minus-green
Color wheel	7 dichroic colors incl. CRI90 filter; split color, scroll
Framing	4 blades, full blackout, 60° rotation, FX macros
Gobos	8 rotating + open (16-bit indexing) 8 static + beam reducer 20 / 13 / 1.1 mm
Prisms	6 layerable prisms on two planes
Animation / frost / iris	Animation wheel, continuous CW/CCW soft + hard frost 16-blade motorized iris

CONTROL & ELECTRONICS

Protocols	DMX512, RDM, Art-Net, sACN, LumenRadio CRMX
DMX modes	52 channels (Standard) 46 channels (Reduced)
Dimmer / strobe	16-bit linear, adjustable speed 1–25 Hz electronic
Display	VOLUX Vi2 full-color LCD with battery operation (battery not included)
Firmware	Ethernet update

ELECTRICAL

Power supply	100–240 V AC, 50/60 Hz, PF > 0.96
Max. consumption	900 W

MOVEMENT

Pan / tilt	540° / 270°, 16-bit, automatic repositioning, multi-position locks
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PHYSICAL

Connections	5-pin XLR IN/THRU RJ45 IN/THRU PowerCON TRUE1 IN/OUT
IP rating	IP66
Operating temperature	14 °F to 120 °F (-10 °C to 49 °C)
Housing	Magnesium die-cast, aluminum alloy, flame-resistant polymer
Rigging	2 ERGO-LOK omega brackets (M13) + safety cable
Dimensions	27.0 in (688 mm) high, head upright
Weight	68.3 lb (31 kg)

14. Warranty & Service

The Phyton is covered by the VOLUX Limited Warranty. Warranty periods, coverage and exclusions are subject to change. For the most up-to-date warranty information, visit voluxlighting.com/warranty-information or refer to your purchase agreement.

Keep your proof of purchase and a written maintenance record (including IP test records) for each fixture. Both are required when requesting warranty service.

Obtaining service (RMA)

Submit a service request through the VOLUX Support Portal at support.voluxlighting.com, or contact your VOLUX Authorized Dealer or Distributor, with a written description of the problem and the fixture serial number to obtain an RMA number. Photos or short videos of the fault and the serial label help speed up diagnosis.

- Ship the unit in its original or equivalent protective packaging.
- Include proof of purchase, maintenance records and the problem description with the returned unit.
- Returns without a valid RMA number will be refused.



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Technical Support: +1 954-688-9945 (US / Canada) • support.voluxlighting.com

International: contact your VOLUX Authorized Distributor • voluxlighting.com