

PROJECT	FIRM	ORDER #	TYPE	QTY
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The PL-SFX 30RGB is a high-performance 30 W RGB show laser combining advanced digital-drive technology with inbuilt Pangolin FB4 control for smooth colour transitions and precise output. FAC (Fast Axis Collimator) technology gives sharp, far-reaching beams, and a rugged dual-layer waterproof (IP65) build keeps it cool and stable in harsh conditions.

Seamless 1–100% linear dimming gives precise brightness control, while an intelligent shutdown and scanner-fail safety (SFS) protect the system. An LCD/knob interface and DMX512 / ILDA / sound / auto control, with up to 200 graphics and beam effects, make it ideal for professional light shows and outdoor projects.

Features

- 30 W RGB show laser — red 12 W, green 12 W, blue 18 W (digital drive).
- Inbuilt Pangolin FB4 module; DMX512 / ILDA / sound / auto control.
- FAC technology — sharp, far-reaching beams; < 7 mm beam, < 1 mrad divergence.
- 50° max scanning angle (DT50BB / GL50B scanner); up to 200 graphics & beam effects.
- IP65 dual-layer waterproof, dust-proof magnesium-alloy build with built-in fan cooling.
- Class 4 laser with scanner-fail safety (SFS) and intelligent shutdown; 1–100% linear output.

At a glance

<p>⚡ Power</p> <p>30 W laser · 30–40 W</p>	<p>◆ Protection</p> <p>IP65</p>	<p>☀ Beam</p> <p>Scan 50° · < 7 mm</p>	<p>⚠ Class</p> <p>Laser Class 4</p>	<p>✦ Control</p> <p>DMX · ILDA · sound FB4 (Pangolin)</p>	<p>★ Source life</p> <p>≥ 10,000 h</p>
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Variant matrix

Laser module — RGB power breakdown.

PL-SFX 30RGB	Colour	Power	Scanner	Beam dia.	Divergence	Control
Red	R	12 W	DT50BB / GL50B	< 7 mm	< 1 mrad	DMX / ILDA
Green	G	12 W	DT50BB / GL50B	< 7 mm	< 1 mrad	DMX / ILDA
Blue	B	18 W	DT50BB / GL50B	< 7 mm	< 1 mrad	DMX / ILDA

Specifications

Series	Laser Light — RGB
Model	PL-SFX 30RGB
Light source	30 W RGB laser
Laser module	RGB digital drive
Red laser	12 W
Green laser	12 W
Blue laser	18 W
Scanner	DT50BB or GL50B
Control module	Inbuilt FB4 (Pangolin)
Max scanning angle	50°
Beam diameter	< 7.0 mm
Divergence	< 1.0 mrad
Control mode	DMX 512 / ILDA / sound / auto
Laser class	Class 4
Protection class	IP65
Input voltage	AC 100–250 V
Power consumption	30–40 W
Material	Magnesium alloy
Light source life	≥ 10,000 hours
Net weight	33 kg
Dimensions	510 × 310 × 235 mm
Effects	Up to 200 graphics & beam effects

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Dimensions

Fixture

Overall 510 × 310 × 235 mm; net weight 33 kg. Dual-layer, dust-proof magnesium-alloy housing with built-in fan cooling.

Laser & safety

30 W RGB (12 / 12 / 18 W) with FAC optics, DT50BB / GL50B scanner, inbuilt Pangolin FB4. Class 4 with scanner-fail safety (SFS) and intelligent shutdown.

Installation

Mounting

- Rig on a stable bracket or truss and aim within the 50° scanning field. Observe all Class-4 laser safety requirements and local regulations for the venue.
- The LCD / knob interface sets address, modes and output level (1-100%).

Electrical & control

- Power from AC 100-250 V via the waterproof connectors.
- Control over DMX 512, ILDA, sound or automatic programs; FB4 enables show playback and network control.
- IP65 — weather-resistant with built-in fan cooling; keep optics clean and connectors sealed.

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Configure your product

The PL-SFX 30RGB is a single fixture; control over DMX 512, ILDA, sound or automatic programs using the inbuilt Pangolin FB4. Always follow Class-4 laser safety regulations.

#	Setting / options
1	Control: DMX 512 / ILDA / sound / automatic — inbuilt Pangolin FB4
2	Effects: up to 200 graphics and beam effects · 1-100% linear output
3	Safety: Class 4 · scanner-fail safety (SFS) · intelligent shutdown

Example product codes

Show control — ILDA / FB4 for graphics, beams and animations

Standalone — automatic programs or sound activation

DMX control

The PL-SFX 30RGB is controlled via DMX 512, ILDA, sound or automatic programs through its inbuilt Pangolin FB4 module, with an LCD / knob interface for addressing and settings.

Laser module

Colour	Power	Notes
Red	12 W	digital drive
Green	12 W	digital drive
Blue	18 W	digital drive

Control notes

- DMX 512 / ILDA / sound / auto control.
- Inbuilt Pangolin FB4 for show playback.
- Class 4 — follow all laser safety regulations.