

Sawor

Switzerland

CompactBeam



User Manual

English

Safety Information

General

This product is intended for professional use only. Improper installation, operation, or maintenance may result in electric shock, fire, burns, eye injury, or other hazards. Read and follow all safety instructions before operating the fixture.

Electric Shock Hazard

This fixture operates at hazardous voltages and can cause serious injury or death.

- Do not expose the fixture to rain, moisture, or excessive humidity.
- Disconnect power before cleaning, servicing, or moving the fixture.
- Do not operate the fixture if it is damaged or malfunctioning.
- Service must be carried out by qualified personnel only.

Fire and Burn Hazard

The light beam and fixture surfaces can become extremely hot during operation.

- Keep combustible materials away from the fixture and its beam.
- Do not focus multiple fixtures on the same area at close range.
- Maintain at least 0.2 m (8 in.) clearance from illuminated surfaces.
- Ensure that ventilation openings remain unobstructed.
- Allow the fixture to cool before handling or servicing.

Eye Hazard

This fixture produces a high-intensity light output.

- Never look directly into the light source.
- Do not view the beam through magnifying lenses, binoculars, telescopes, cameras, or similar optical devices.
- Avoid prolonged exposure to the beam at close range.

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Introduction

The Sawor CompactBeam is a compact, low noise moving-head fixture powered by a high-output LED light source. Its narrow beam angle, vibrant color wheel, and prism effects allow the creation of striking aerial looks, dynamic movement, and eye-catching stage effects.

Featuring dimming, strobe functionality, and precise pan and tilt movement, the fixture delivers top performance for live events, clubs, venues, and mobile entertainment applications. Its lightweight yet durable construction makes it equally suitable for touring productions and permanent installations.

The fixture supports industry-standard DMX512 control and integrates seamlessly with professional lighting systems, providing reliable operation and flexible programming options for a wide range of lighting designs.

The fixture is supplied with this user manual, a 1.5 m (5 ft) power cable and a mounting bracket.

Technical Specifications

These specifications were measured by Sawor in Switzerland for this specific fixture.

Parameter	Specification
Fixture	
Housing Color	Black
Height	340 mm
Width	230 mm
Depth	150 mm
Weight	3 kg
Cooling	Active cooling
IP Rating	IP 33 (Indoor use only)
Light Source	
Light Source	60 W COB LED
Color Temperature	8500 K White
Optical System	
Beam Angle	2°
Illuminance	550'000 lux @ 2m 22'000 lux @ 10m
Peak Intensity	2'200'000 cd
Gobo Wheel	7 + open
Color Wheel	7 + open
Prism	18-Facet Rotating Prism
Beam Angle (Prism)	14°
Control & Operation	
Power Supply	220-240 V AC, 50Hz
DMX Channels	12
Power Consumption	80 W max.
Apparent Power	140 VA max.
Power Switch	Yes
Built-in Microphone	Yes
Grounding (PE)	Yes
Connections	
Power Input	Neutrik® PowerCON® Compatible Connector
DMX-Input	3-Pin XLR
DMX-Output	3-Pin XLR

Fixture Menu

This fixture is equipped with an LCD control panel that allows access to all settings and functions.

Press the **MENU** button to cycle through the available menu items. Use the **UP** and **DOWN** buttons to select the desired option or adjust a value. Press **ENTER** to confirm and save the selected setting.

Example: To set the DMX address, press MENU until the DMX Address screen is displayed. Use the UP and DOWN buttons to select the desired address, then press ENTER to save the setting.

Function	Menu Item	Values	Description
DMX Adress	addr	001—0512	Sets the fixture's DMX start address.
Channel Mode	chnd	12Ch	Fixed 12-channel DMX mode.
Operating Mode	slnd	dmh	DMX control mode.
		Auto	Automatic show mode.
		Soun	Sound-active mode.
Pan Reverse	pset	no	Reverses pan movement direction.
		yes	
Tilt Reverse	tilt	no	Reverses tilt movement direction.
		yes	
Sound Sensitivity	sens	0—100	Microphone sensitivity from low to high.
Display Backlight	led	no	Keeps display illuminated.
		off	
Display Invert	disp	no	Flips the display for inverted installation.
		off	
Internal Fixture Temperature	temp	-	Displays the internal fixture temperature in ° C.
Software Version	ver	-	Displays installed firmware version.
Factory Reset	fact	no	Restores factory default settings.
		yes	

Mounting

The fixture is supplied with a mounting bracket. The bracket can be attached to the rear of the fixture using the pre-installed screws. Once installed, a suitable clamp may be fixed to the bracket for mounting on truss systems, lighting stands, or other supporting structures.

When the fixture is suspended above ground level, an appropriate safety cable must always be used in addition to the primary mounting method. Attach the safety cable around one of the fixture handles and ensure that it is rated for the weight of the fixture and complies with local safety regulations.

Before each use, verify that all screws, clamps, and safety devices are securely fastened and free from damage.

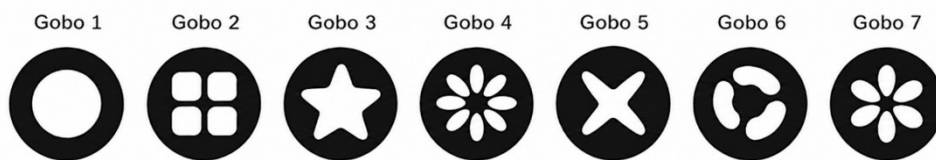
Effects

Pan & Tilt

The fixture's moving head can be panned through 540° and tilted through 180° using coarse or fine control channels.

Gobos

This Fixture incorporates a 7-pattern gobo wheel.



Any gobo can be projected statically. Gobos can be shaken, and the gobo wheel can be rotated clockwise or counter-clockwise.

Prism

The fixture incorporates a prism that can be inserted into the beam to give split beam effects. The prism can be rotated clockwise or counter-clockwise.

Strobe

This Fixture provides strobe effects of variable speeds up to 25 hz.

Electronic dimming

The LED light source can be dimmed from 0-100%. It can be switched on or off at any time.

Color wheel

The fixture incorporates a color wheel, with seven colors plus open. Individual color slots can be selected, or the wheel can be rotated continuously.

Cleaning and Maintenance

Regular cleaning is essential to maintain light output and ensure reliable operation. Dust, smoke fluid residue, and other airborne particles can reduce performance and cause overheating.

Cleaning intervals depend on the operating environment. Fixtures used in dusty conditions or near smoke and fog machines may require more frequent cleaning.








To clean the fixture:

1. Disconnect the fixture from power and allow it to cool completely.
2. Remove dust from the housing and ventilation openings using a soft brush, vacuum cleaner, or low-pressure compressed air.
3. Clean lenses and exterior surfaces with a soft, lint-free cloth lightly dampened with mild detergent or glass cleaner.
4. Dry all surfaces thoroughly before reconnecting power.

Important: Do not use solvents, abrasive cleaners, or excessive force, as these may damage the fixture. Damage resulting from inadequate maintenance is not covered by warranty.

DMX Protocol

Chan.	Value	Function
1	0-255	Pan 0°-540°
2	0-255	Pan (fine control)
3	0-255	Tilt 0°-180°
4	0-255	Tilt (fine control)
5	0-255	Pan/tilt speed, fast-slow
6	0-255	Dimmer 0-100%
7	Strobe	
	0-15	Off
	16-255	Strobe, slow-fast
8	Color Wheel	
	0-15	Open/White
	16-31	Red
	32-47	Yellow
	48-63	Green
	64-79	Orange
	80-95	Blue
	96-111	Magenta
	112-127	Cyan
128-255	Clockwise, slow-fast	
9	Gobo Wheel	

	Gobo 1	Gobo 2	Gobo 3	Gobo 4	Gobo 5	Gobo 6	Gobo 7
							
	0-7						Open
	8-15						Gobo 1
	16-23						Gobo 2
	24-31						Gobo 3
	32-39						Gobo 4
	40-47						Gobo 5
	48-55						Gobo 6
	56-63						Gobo 7
	64-71						Gobo 1 Shake, slow-fast
	72-79						Gobo 2 Shake, slow-fast
	80-87						Gobo 3 Shake, slow-fast
	88-95						Gobo 4 Shake, slow-fast
	96-103						Gobo 5 Shake, slow-fast
	104-111						Gobo 6 Shake, slow-fast
	112-119						Gobo 7 Shake, slow-fast
	128-255						Clockwise, slow-fast
10	Prism (18-Facet)						
	0-8						Prism Off
	8-127						Prism On
	128-255						Prism Rotation, slow-fast
11	Automatic Mode / Sound Control Mode						
	0-50						Automatic Mode Off
	50-100						Automatic Mode, fast
	101-200						Automatic Mode, slow
	201-255						Sound Control Mode
12	Reset						
	0-249						No Effect
	250-255						Reset after 3s

Specifications are subject to change without notice. All values were measured under laboratory conditions and may vary depending on operating environment and manufacturing tolerances.