

Bad Boy™

spot luminaire

The Bad Boy™ from PRG is an elegantly engineered, hybrid luminaire that combines the qualities of a traditional automated light with a large venue fixture.

Bad Boy is the ideal choice whenever a big-beam look is required, for example, when playing in front of high-brightness LED screens. Producing a powerful 48,000 lumens, the Bad Boy couples its high-definition optics with a Philips MSR Gold™ FastFit lamp that can be set at any level between 700W and 1400W. Boasting an optical efficiency of over 40%, Bad Boy doubles standard efficiencies, marrying both brightness and green product ideals without compromise.

BRILLIANT OPTICAL SYSTEM

Bad Boy offers superior optical clarity and smooth fluid control of focus, zoom, dimming, and imaging by bringing together high quality lenses and high-speed servo motors. Perfect for high resolution gobos, Bad Boy incorporates a zoom lens system with exceptional optical imagery and a zoom range of 8:1 from a narrow spot of 7° to a wide flood of 56°. The 8" diameter front lens produces a large, full beam that easily can be varied by the luminaire's zoom lens and beam size iris. The zoom consists of four groups of lenses — each independently controlled for accuracy while maintaining focus during zoom changes — plus edge control for gobo focus and gobo morphing.

FAST, PRECISE MOVEMENT

Designed with servo motors rather than traditional stepper motors, Bad Boy has the swift, organic movement comparable to a unit just one quarter of its size and weight. Three-phase high-speed servo motors for pan and tilt provide repeatable, precise responses. Pan and tilt locking mechanisms automatically unlock when power is applied to the fixture. Bad Boy's speed and control also is evident in its rapid shifts between colors and gobos, its quick zoom from spot to flood, and its full-field dimming from 0 to 100% with accurate slow-speed control as well as fast bumps.

RICH, VIBRANT COLORS

Bad Boy features the Quantum Color® system resulting in an unprecedented range of vibrant, saturated colors. This innovative color method features four color wheels with seven discrete colors on each wheel. Individual color filters allow for variation in both saturation and hue of the CMY colors, resulting in a much broader range of saturated colors that are pure and homogenous across the beam. Because no diffusion material is required, the output brightness in white and the brightness of the colors are maximized. Each wheel uses a high-speed servo motor for rotation, which provides instantaneous color bumps and flashes as well as smooth control for timed color changes.



Features

SOURCE:	Philips MSR Gold™ 1200W SA/SE FastFit Lamp. Configurable between 700W and 1400W.
OUTPUT:	48,000 lumens
OPTICAL EFFICIENCY:	40%
REFLECTOR:	Precision glass reflector with dichroic cold mirror coating.
OPERATING TEMP:	-20° to 120°F (-29° to 49°C)
COOLING:	Forced air.
CONTROL:	Compatible with all PRG consoles and a wide variety of DMX512 and Art-Net consoles. An internal Ethernet switch allows for daisy-chaining fixtures.
POSITIONING:	Can be mounted and operated in any orientation.
SPACING:	Hangs on 30 inch (762 mm) centers.
WEIGHT:	146 lbs (66.2 kg)
ON-BOARD CONTROL:	Built-in LCD display with touchscreen featuring menu system control.
ZOOM RANGE:	8:1 from narrow spot of 7° to wide flood of 56°.
ZOOM CONTROL:	Four (4) groups of lenses — each independently controlled for accuracy while maintaining focus during zoom changes
BEAM SIZE CONTROL:	In addition to the zoom optics, a mechanical iris provides continuous beam size control for both rapid changes and smooth timed beam angle changes.
EDGE CONTROL:	Maintains gobo focus and allows gobo morphing.
INTENSITY:	Full-field dimming from 0 to 100% with accurate slow-speed control and fast bumps.
STROBE:	Servo-powered, lightning fast strobe.
COLOR:	Quantum Color® system featuring four (4) color wheels with seven discrete colors on each wheel: one (1) designer wheel with user-changeable color filters and three (3) fixed color wheels organized into Cyan, Magenta, and Yellow (CYM).
ROTATING GOBOS:	Two (2) indexable, rotating gobo wheels with seven (7) gobos per wheel. Gobos are individually calibrated so the unit will automatically index the orientation of each gobo regardless of placement.
PAN & TILT:	Three-phase, high-speed servo motors.
RANGE:	Pan - 540°, Tilt - 270°
MAX VELOCITY:	4.1 seconds for 540° of pan and 3.2 seconds for 270° of tilt.
ACCURACY:	0.2° resolution.



One Source. Unlimited Resources.™

Bad Boy™ Luminaire Specifications

The unit is an integrally designed, remote controlled, motorized luminaire. The housing and yoke are constructed of aluminum and steel for light-weight strength and are forced-air cooled. The unit utilizes a Philips MSR Gold™ 1200W SA/SE FastFit lamp that can be set at any level between 700W and 1400W. The lamp is easily changeable from the rear of the unit, eliminating the need to open the head for lamp access.

Two enclosed, high torque servomotors permit movement of the head on a horizontal plane of 540° and on a vertical plane of 270°. Control cabling runs internally to prevent tangling. The pan and tilt are belt-driven, providing positional resolution and repeatability of 0.2° on either axis. Manual override under power will not harm the drive mechanism. Pan and tilt locking mechanisms automatically unlock when power is applied to the fixture.

Each unit is equipped with an on-board microprocessor providing diagnostic and self-calibration functions. In the event the luminaire encounters any physical obstruction during calibration, the pan and tilt motors will automatically be disabled preventing damage to the mechanisms.

The unit contains a Quantum Color® system with four (4) color wheels with seven discrete colors on each wheel: one (1) designer wheel with user-changeable color filters and three (3) fixed color wheels organized into Cyan, Magenta, and Yellow (CYM).

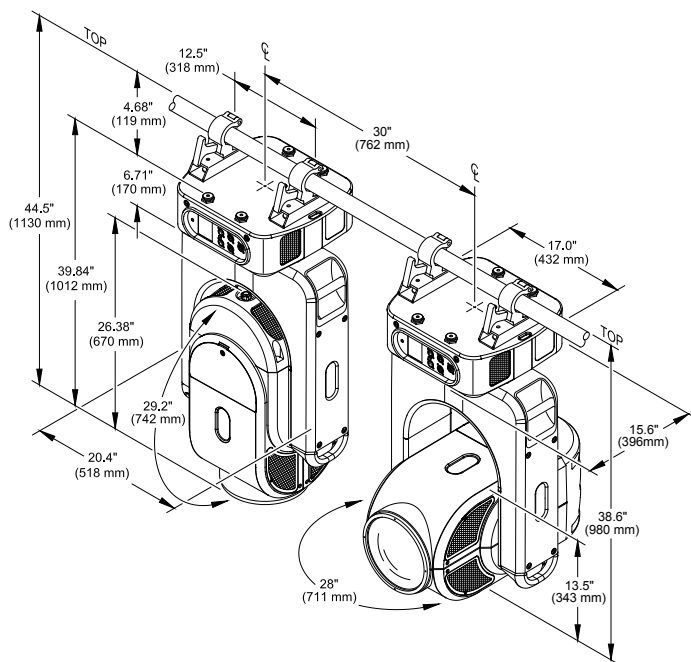
The unit contains two (2) indexable, rotating gobo wheels with seven (7) gobos per wheel. Gobos are individually calibrated so the unit will automatically index the orientation of each gobo regardless of placement. All gobos are easily removable from the unit. Positional accuracy of the gobo frame in reference to the beam is ensured by the microprocessor, which maintains count of both servo motors and magnetic sensors that define the open white positions.

The unit contains a mechanical iris which provides continuous beam size control for both rapid changes and smooth timed beam angle changes. Variable beam focus is provided to soften edges of gobos or spots and provide gobo morphing. The zoom optics system provides an 8:1 zoom range from narrow spot of 7° to wide flood of 56°. The unit is capable of full-field dimming from 0 to 100% with accurate slow-speed control and fast bumps. The unit also contains a servo-powered strobe mechanism for lightning fast strobe effects.

The unit is compatible with all PRG consoles and a wide variety of DMX512 and Art-Net consoles. An internal Ethernet switch allows for daisy-chaining fixtures. A built-in LCD display with touchscreen allows for on-board fixture control. On-board battery power allows a fixture address to be set without having to apply AC power to the luminaire.

A safety cable is provided with each unit. Exterior finish is black powder coat. Total weight does not exceed 146 lbs (66.2 kg). The unit is CE-marked.

Dimensions



Built-In LCD Display

Bad Boy features a built-in LCD touchscreen display which provides access to control, configuration, status, and testing functions.



sample menu screen

Production Resource Group

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