



# Bid Specification Sheet

## "Pacific" 7.5-19 Followspot

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**This is the specification for a 7.5°-19° Followspot luminaires, complete with all accessories.**

The Followspot shall comply with the following performance specifications when using a BP1000W, 240V 25,000 lumens lamp.

The followspot shall be able to operate with BP1000W compact filament lamp.

The followspot shall produce a beam of white light with high apparent brightness.

The followspot shall incorporate an Active Heat Management System to channel heat away from the lampbase, iris, and lenses.

The lampbase shall be mounted base down for maximum cooling, with the lamp positioned vertically in an axial aluminium reflector for maximum optical efficiency. A flat dichroic cold mirror shall reflect the light beam at right angles, and allow the heat to pass through onto an aluminium heat sink. Due to lower heat stress on sensitive components, a limited three year warranty shall be offered with the 600/800w and 1000w version of the followspot.

Access to the lamp shall be by removal of the lamp module unit mounted on the underside of the lamphouse. It shall be possible to interchange the lamp module with a 600/800W module. For ease of identification, the lamp module handles shall be colored red (1000W), and blue (600 / 800W). The lamp module shall be constructed from an engineering plastic, offering both electrical and heat isolation

There shall be no cooling fans present in the followspot. A followspot with cooling fan inside shall not be permitted.

The followspot shall use a zoom profile system, providing a beam angle adjustable from 7.5 to 19 degrees. The followspot shall be of compact dimensions, not exceeding 1100mm in length, and 400mm in height. The followspot shall not exceed 19.5kg in weight.

The front of the lens housing shall have runners for a DIN size filter frame.

There shall be a separate safety anchor point on the rear of the lamp house.

The lenses shall be constructed from high heat resistant polished borosilicate glass. The lenses shall be optically coated to improve the beam

quality and light output. Plastic lenses shall not be permitted.

### Operational Data

#### FOCUS ADJUSTMENT:

The lens position shall be adjusted by releasing a lamp focus knob, and sliding the lens to the required position. A numerical scale for recording focus setting shall be provided. There shall be two large engineering plastic guide handles located on the rear and the side of the lamp housing for positioning. An adjustable front guide handle shall be provided on the lens tube to suit the operator's requirement.

#### LIGHT DISTRIBUTION:

The adjustment of the lamp on the optical axis and peak/flat field adjustment shall be by a planetary gear system comprising a master gear, and three smaller gears. No tools shall be required for adjustment, and it shall be possible to operate the adjustment controls without gloves, even after the followspot has been in operation for several hours.

#### RELAMPING:

The lamp replacement shall be by loosening the lamp module retaining knob, and removing the lamp module from the lamp house. Power to the lampbase shall be disconnected by a microswitch cut out when the module is removed from the lamp house. The lamp module shall have three shock dampening springs to protect against shock vibrations when the followspot is in use.

#### LENS ACCESS:

The lenses shall be mounted in carriers constructed from spun aluminium. For cleaning and maintenance, there shall be a lens access cover positioned on the top of the lens house.

#### COLOUR FRAME:

There shall be a DIN sized colour frame supplied with the followspot.

#### COLOUR CHANGER ACCESSORY:

It shall be possible to mount an optional colour changer accessory on the front of the followspot. The colour changer accessory shall accept up to four colours, and shall be a self cancelling design. For ease of identification, each lever shall have a different coloured knob. The colours shall be black, yellow, red and blue. There shall be a safety anchor point on the colour changer accessory.



**IRIS:**

The followspot shall incorporate a precision 18 leaf iris. The iris shall black out when fully closed, and include a guard to protect the iris leaves from the direct light beam when in the closed position. It shall be possible to remove the iris assembly from the side of the followspot by removing two screws.

**GOGO PATTERN HOLDER ACCESSORY:**

It shall be possible to use a standard 'A' size gobo pattern in the followspot. This shall be by means of an optional Gobo Pattern Holder Accessory. This shall be inserted by removing the gobo pattern holder cover plate located on the side of the followspot.

It shall also be possible to use the following light sources without any special modification:

80V 1200W Lamp Module and Power System

MSR/MSD 575W Lamp Module and Electronic Ballast

**Electrical/Environmental Data**

Supply Voltage: 220V-240V 50/60 Hz

Max Wattage: 1000W

Lamp Type/Socket: GY9.5 BiPin base/socket

BP1000 1000W, 3200K 400 hour lamp shall be provided.

Supply Cable: 1.5 metres (3 x 1.5mm conductors) heat resistant silicon rubber cable.

Temperature:

The maximum ambient temperature shall be at 45° C. The maximum surface temperature shall not exceed 272°C.

Angles of use:

45° above to 60° below horizontal

**Standards:**

The followspot shall be tested and approved to the following international standards:

EN 60-598-2-17 1989 incl amendments 1 & 2

EN 60-598-1 1992 incl amendment 1

Electromagnetic Compatibility Directive 89/336/EEC as amended by Directive 91/263/EEC and 92/31/EEC

**Mechanical Data**

**LAMP HOUSING:**

The lamp house shall consist of pressure die cast aluminium left and right castings, and a pressure die cast aluminum heat sink. There shall be a heat shield guard over the heat sink. There shall be a lamp module constructed of engineering plastic. There shall be a separate safety anchor point. There shall be two large engineering plastic guide handles on the rear and on the side of the lamp housing for focus positioning.

**LENS HOUSE:**

The lens house shall consist of a centre gate assembly, an extruded aluminum tube in which two spun aluminium lens carriers are mounted, and a front plate. The centre gate assembly shall house the iris and the gobo pattern holder cover plate. The front plate shall have runners for a DIN size filter frame or effect accessory. A front guide handle shall be provided. It shall be possible to

reposition the front guide handle along the length of the lens house to suit the operator's requirement.

**MOUNTING:**

The followspot shall have a steel alloy yoke suspension with M12 centre hole, and shall be supplied with 28mm outside diameter spigot and nylon washer. The yoke shall be braced to provide additional rigidity. The yoke shall have a built-in platten to provide additional stability. It shall be possible to rebalance the followspot by sliding the yoke along the mounting channels on either side of the lens house. Tilt adjustment shall be possible by pivoting fixing of yoke and locked by interlocking cup and disc assembly operated by heat insulated plastic knob. There shall be mounting holes in the side of the yoke to attach either an 80V power supply, or MSR electronic power supply if required.

**REFLECTOR:**

The followspot shall have a 99.9% pure anodised aluminium ellipsoidal reflector polished to high reflectivity.

**LENS:**

The lenses shall be constructed from heat resistant clear borosilicate glass mounted in aluminium carriers for smooth focus movement. The lenses shall be optically coated to improve the beam quality and light output.

Beam Angles: 7.5 – 19°

**FINISH:**

The finish shall be high temperature stoved black epoxy powder paint. The engineering plastic components shall be matt black.

**Performance Data**

The performance of the followspot shall be as per the following chart based on the BP1000 1000W 240V lamp.

**Narrow Angle 7.5°**

Distance/m	10	15	20	25	30
Brightness/lux	4003	1779	1001	641	445
Diameter/m	1.3	2.0	2.6	3.3	3.9

**Wide Angle 19°**

Distance/m	10	15	20	25	30
Brightness/lux	2052	912	513	328	228
Diameter/m	3.3	5.0	6.7	8.4	10.0

The Followspot luminaire shall be supplied with a limited three-year warranty when used in normal theatrical applications.

Full warranty details shall available for download from the manufacturer's website at: [www.seleconlight.com](http://www.seleconlight.com)