



**Professional Broadcast Equipment**

# ***Mini Paglight***

Miniature 12V Camera Light

Instruction Manual

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## **SECTION 1**

### **INTRODUCTION**

The Mini Paglight is a 12V camera top-light, designed to meet the requirements of all professional situations, and because of its size it is particularly suited for use with smaller digital camcorders. It embodies many of the features of the larger 12V Paglight, including PAG's unique plug-in lamp holder system, a focusable beam angle, and a detachable power base. This radical design is protected by Patent Number 2335027 and Design Registration Number 2071515.

The Mini Paglight is constructed principally from a specially developed glass-reinforced polymer, that has high strength, impact resistance and temperature stability, resulting in a unit that is also light in weight. Integral to the lamp head is a clever heat dissipation system, which ensures that the light is both cool running and compact.

At the heart of the design is the superb PAG reflector, designed to project the maximum amount of light without incorporating the 'black holes' and flaws commonly seen with other lighting systems. The light is continuously focusable from spot to flood, increasing or decreasing intensity with an even spectral distribution.

Lamps are a push-fit into lamp holder units which plug-into the rear of the lamp head. Lamp holders with different wattages can be exchanged quickly and easily, with the light mounted to the camera, and without touching the glass lamp itself. When removed from the Mini Paglight, lamp holders should be stored in lamp protectors, which are moulded in high-strength, heat-resistant polymer, to provide safe transit.

There are a variety of lamp holders available for use with the Mini Paglight. The Mini Paglight is supplied with a standard halogen lamp holder and a lamp of your choice. Halogen lamp holders accept 10W, 20W, & 35W G4 size halogen 12V long-life lamps, available from PAG.

The Softstart halogen lamp holder is designed for use with Lithium-Ion batteries, and prevents the battery cut-out being tripped by the power surge of the tungsten filament lamp when it is turned on from cold.

The plug-in **PowerArc** unit enables the Mini Paglight to be instantly converted into the most compact yet powerful metal-halide arc light (HMI) in the industry. The PowerArc utilises a 24W lamp whilst having an output equivalent to 100W of halogen light, but at daylight colour temperature.

A **Rotatable Accessory Ring** can be fitted to the front of the Mini Paglight, which will accommodate two parallel barn doors, a frosted diffuser and a dichroic filter, which converts the colour temperature of the halogen output to match daylight. Alternatively, a PowerArc conversion filter can be used to convert the PowerArc's output to match the colour temperature of halogen. The accessory ring is 360° rotatable and can be secured to maintain the desired position.

The lamp head is provided with a multidirectional mounting, which allows the light to be adjusted vertically through 75° or horizontally through 180°. The mounting is provided with a locking knob to maintain the desired position during use.

The Mini Paglight can be quickly removed from its low-profile **Power Base**, allowing the camera to be stowed in its flight case without the need to remove the base and wiring. Power Bases are available with a variety of connectors (D-Tap, PP90 or XLR4) and lead lengths suitable for many applications.

The detachable Power Base incorporates a 1/4" bush and can be mounted directly to the camera by a male to male stud adaptor (1/4"), or a camera shoe plate (1/4"), both supplied with the light.

Other mounting accessories include:

**9807** Camera Clamp, with 1/4" bush.  
For mounting to non-standard fittings.

**9906** Handle, 1/4" stud to bush.  
For handheld operation.

Visit [www.paguk.com](http://www.paguk.com) for more information about mounting adaptors.

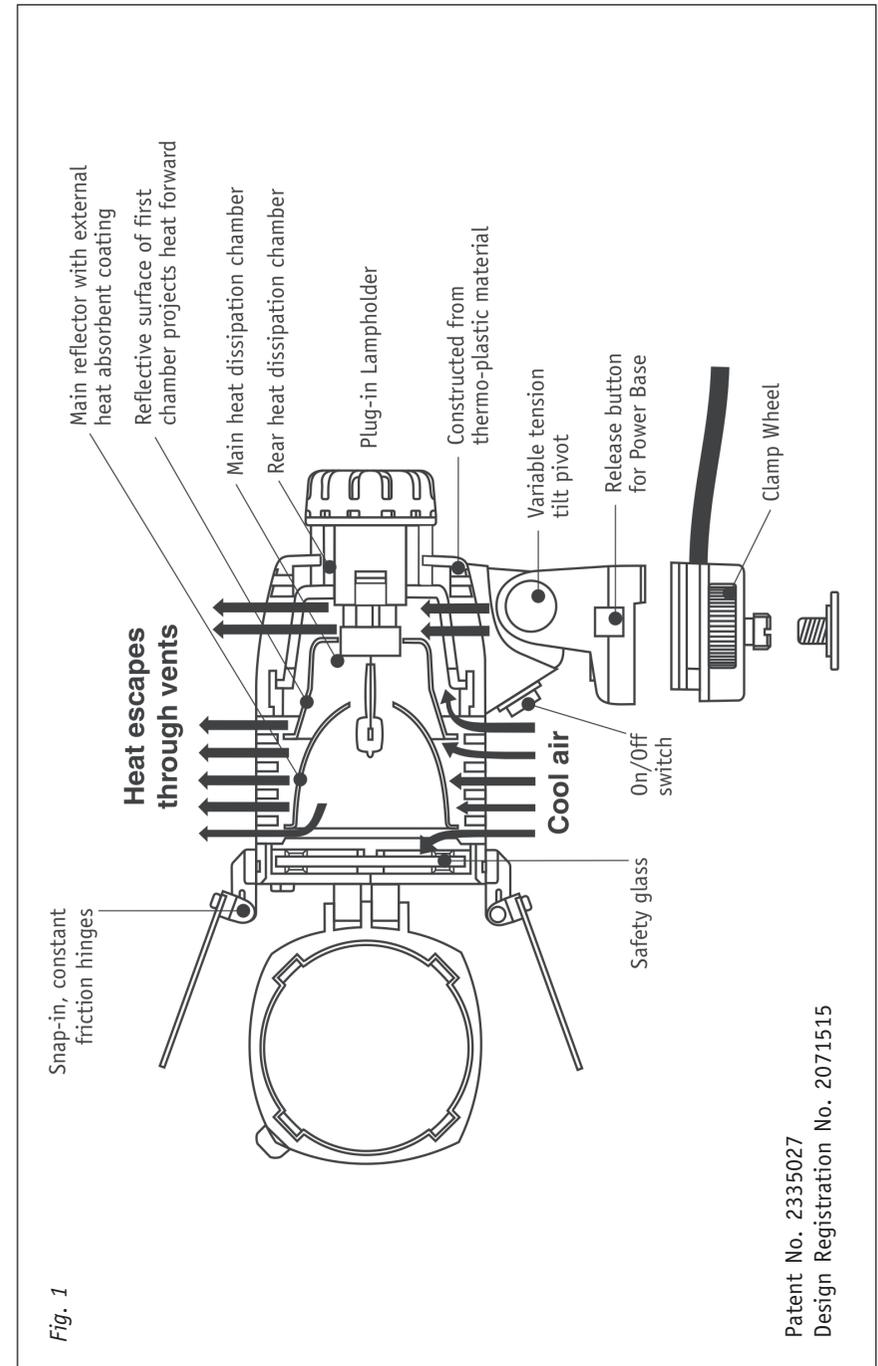


Fig. 1

Patent No. 2335027  
Design Registration No. 2071515

## SECTION 2

### SAFETY

Please read the following important safety information and operating instructions before using the Mini Paglight.

- 2.1 Low voltage DC input only. Do not connect to incorrect supplies (see Specifications, Section 3).
- 2.2 The Mini Paglight operates at high temperatures. Water or damp atmospheres could cause the lamp to rupture forcibly.
- 2.3 The Mini Paglight is not intended for any use other than video lighting purposes.
- 2.4 Do not disassemble. Incorrect reassembly may result in a safety hazard.
- 2.5 Do not operate if the fixed safety glass is cracked or broken.
- 2.6 The Mini Paglight will become hot in use. Do not leave switched-on while unattended. Do not obstruct the cooling vents or operate near combustible materials. Allow to cool before storage.
- 2.7 Switch-off the Mini Paglight before removing or replacing the plug-in lampholder. Allow the lamp to cool before removing it from the lamp holder.
- 2.8 Do not handle the lamp envelope directly. If it is touched inadvertently, clean it with a lint-free cloth moistened with methylated spirit.

## SECTION 3

### SPECIFICATIONS

#### 3.1 Power Base Connectors:

PP90 Centre pin negative

XLR4 Pin 1 negative, pin 4 positive

D-Tap 2-pin\*

\**Left or right cable entry (user convertible).*

#### 3.2 Electrical Rating:

Voltage: Nominal 12V to 14.4V DC battery or isolated 12V AC supply.

Maximum Power Rating: 35W lamp with 13.2V (nominal) battery.

#### 3.3 Lamps:

Type: Low-voltage halogen capsules, long-life rating (4000 hours at 12V).

Voltage: Nominal 12V.

Colour Temperature: 3200°K at 12V (5600°K when using dichroic filter).

Base: Type G4

#### Lamp Models:

**9018** 10W 12V

**9019** 20W 12V

**9020** 35W 12V

## SECTION 4

# OPERATION & MAINTENANCE

### 4.1 Plug-in Lamp Holder System

The Mini Paglight features a plug-in lamp holder that makes fitting a lamp quick and easy. Halogen lamps are available in a range of wattages, and may be used with any halogen lamp holder. Plug-in lamp holders enable instant wattage changes without the need to handle the lamp.

### 4.2 Removing the Lamp Holder

**IMPORTANT:** First switch-off the Mini Paglight. Gently press and turn the lamp holder anti-clockwise and carefully withdraw it from the rear of the light.

### 4.3 Changing Halogen Lamps

Remember that the lamp itself may remain hot for a considerable period after being turned-off. It is advisable to use a cloth to remove a lamp. The bi-pin lamp is a push fit into the lamp holder. Do not twist or bend the legs when removing or replacing. Do not handle the lamp glass directly. If it is touched inadvertently, clean it with a lint-free cloth moistened with methylated spirit. Finger marks cause blackening of the glass, and in turn hot spots, which lead to a reduction in life and possible rupture of the glass. For users who change lamp wattages frequently it is recommended that additional lamp holders are purchased for each wattage variant.

### 4.4 The Lamp Head

The lamp head incorporates a tilting facility with a locking mechanism. From the horizontal position, the lamphead can be angled downwards by 15°, and upwards by 60°.

Focussing is provided by a lever on each side of the lamp body, and is continuously variable from narrow to wide angle, thereby increasing or decreasing intensity.

A toughened, heatproof safety glass is provided at the front of the

light. This provides protection from flying glass in the unlikely event of a lamp rupturing. Never operate the light if this glass is broken or missing.

The lamp head is designed around a clever heat dissipation system, which allows external parts of the light to operate at a far lower temperature than other models currently on the market. However, do not operate with the barn doors fully closed.

Do not operate the light in the vicinity of highly combustible materials, especially explosive heavy vapours. Never leave the light turned on while unattended. Do not obstruct the airflow through the cooling vanes.

### 4.5 The Mini Paglight Base

The base incorporates a swivelling facility with a captive locking mechanism. The camera shoe plate (included) screws into the 1/4" thread in the base of the lamp, enabling it to be fitted directly to any camera equipped with an accessory shoe. Always tighten the locking wheel firmly to secure the base while retaining the swivelling facility.

The Mini Paglight is quickly detachable from its low-profile hot-shoe Power Base, allowing the camera to be stowed in its flight case without the need to remove the base and wiring. This allows the Power Base to become a permanent fitting on the camera. The light is removed from the Power Base by pressing the release catch, and sliding the light rearwards.

**Hot-Shoe Power Bases** are available with the following connectors and lead lengths:

**2.1mm (PP90) plug** (lead length 500mm) for connection to the light output on a PAGlok connector, when it is mounted to the rear of the camcorder.

**2.1mm (PP90) plug** (lead length 1.5m) for connection to the light output on a PAGlok Belt Clip.

**D-Tap 2-pin D-shaped plug\*** (lead length 500mm) for connection to

the camera light output on the Anton-Bauer camera mount.

**D-Tap** 2-pin D-shaped plug\* (lead length 150mm) for connection to the camera light output on a Sony camera.

**XLR4 plug** (lead length 1.5m) for connection to the power output of a Pagbelt battery belt or Powerman battery.

\*Left or right cable entry (user convertible).

#### 4.6 Filters & Barn Doors

A rotatable accessory ring fits onto the front of the light and accepts snap-in filters and barn doors. The frosted Diffuser can be used for soft-lighting effects. The Dichroic Filter is designed to correct the colour temperature of the halogen light output to match daylight.

The accessory ring can be rotated and locked in position with the knurled screw. To remove the accessory ring, unscrew the knurled locking screw completely, and expand the ring over the front rim of the light.

Barn doors and filters are a snap-fit onto the accessory ring, and may be assembled in any permutation. To remove, pull firmly forwards from the mounting lugs. DO NOT TWIST. Fitting is the reverse of this procedure. The barn doors and filters feature screws to adjust the tension of the hinges.

#### 4.7 Service

If a fault develops, do not disassemble the light or its ancillaries. The electronics assemblies do not require periodic maintenance, and contain no user serviceable parts. Unqualified personnel should not attempt further investigation. Any such interference will invalidate the guarantee and may cause more damage than the original fault. Incorrect reassembly of any other part of the light may give rise to a fire hazard as a result of the high currents that flow during normal operation.

In order to maintain the build standard for which this product was originally selected, seek advice from your nearest PAG Dealer or direct from PAG Ltd., London by telephoning +44 (0)20 8543 3131.

#### 4.8 Mini Paglight Options:

*The Mini Paglight is supplied with a Standard Lamp Holder, a Power Base, a camera shoe plate and a stud adaptor. Lamps and Rotatable Accessory Kits (filter holders) are sold separately.*

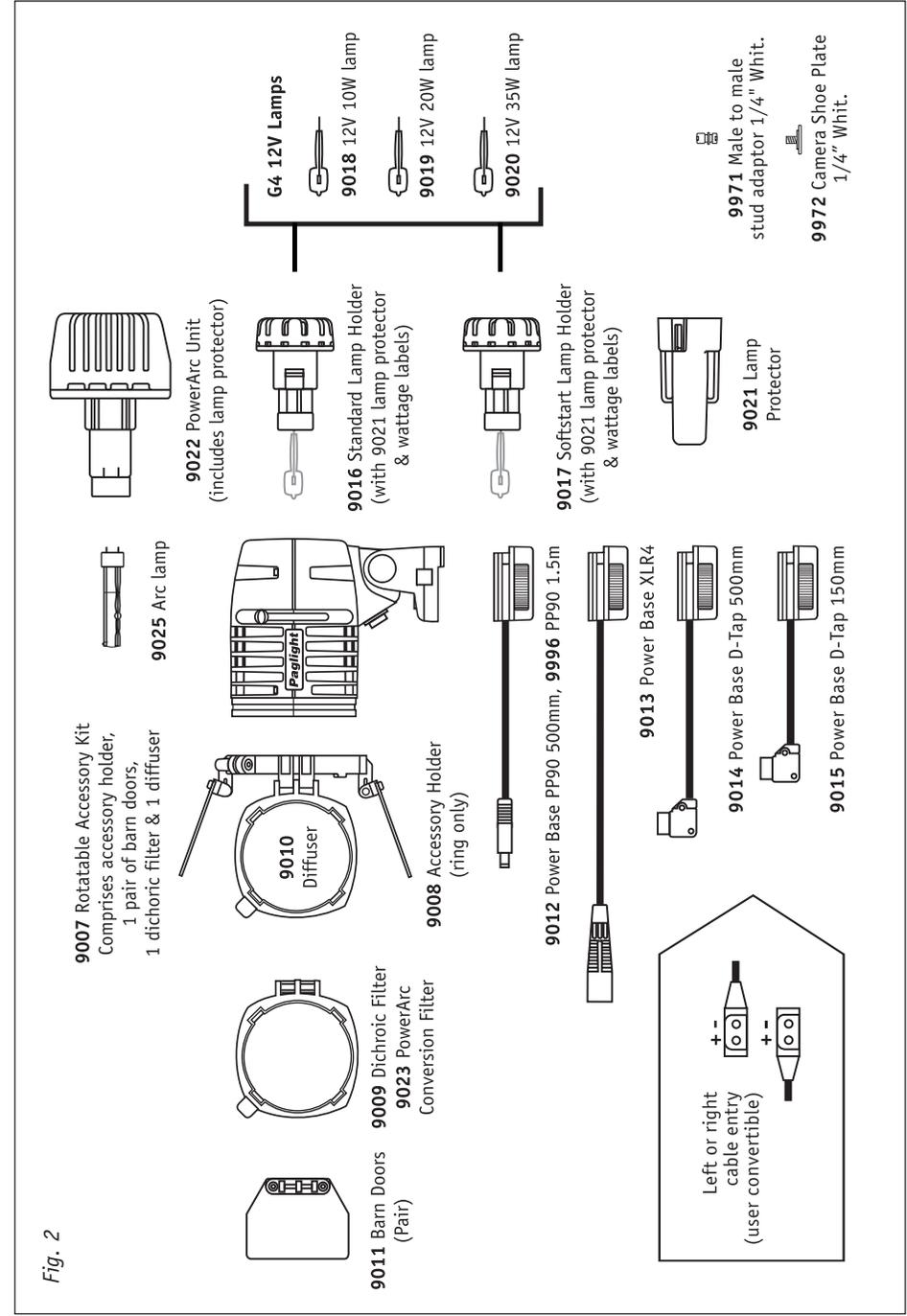
- 9001** Mini Paglight / PP90 Power Base / 500mm lead length.
- 9001L** Mini Paglight / PP90 Power Base / 1.5m lead length.
- 9002** Mini Paglight / XLR4Power Base / 1.5m lead length.
- 9003** Mini Paglight / D-Tap Power Base / 500mm lead length.
- 9004** Mini Paglight / D-Tap Power Base / 150mm lead length.

#### 4.9 Mini Paglight Accessories:

- 9007** Rotatable Accessory Kit, including Diffuser, Dichroic Filter and 2 Parallel Barn Doors
- 9008** Rotatable Accessory Ring
- 9009** Dichroic Filter (converts halogen to daylight)
- 9010** Diffuser
- 9011** Parallel Barn Doors (pair)
- 9012** Hot-shoe Power Base, PP90 (lead length 500mm)
- 9996** Hot-shoe Power Base, PP90 (lead length 1.5m)
- 9013** Hot-shoe Power Base, XLR4 (lead length 1.5m)
- 9014** Hot-shoe Power Base, D-Tap (lead length 500mm)
- 9015** Hot-shoe Power Base, D-Tap (lead length 150mm)
- 9016** Standard Lamp Holder
- 9017** Softstart Lamp Holder
- 9018** 12V 10W G4 Lamp
- 9019** 12V 20W G4 Lamp
- 9020** 12V 35W G4 Lamp
- 9021** Lamp Protector
- 9022** PowerArc HMI Unit
- 9023** PowerArc Conversion Filter (daylight to halogen)
- 9025** Arc Lamp
- 9971** Male to Male Stud Adaptor 1/4"
- 9972** Camera Shoe Plate 1/4"

- 9983** Softlight Diffuser and Filter Set.  
For ultra-soft lighting, colour correction or colour lighting effects.
- 9994** Power-to-light Adaptor (PAGlok)  
A power interface accessory that enables you to power the Mini Paglight from a PAGlok battery.
- 9995** Power-to-light Adaptor (Gold Mount).  
A power interface accessory that enables you to power the Mini Paglight from any Gold Mount battery.

For more information about these and other compatible PAG products visit [www.paguk.com](http://www.paguk.com)



## SECTION 5

### GUARANTEE

- 5.1 Notwithstanding any provision of any agreement the following guarantee is exclusive: PAG Limited guarantees each Mini Paglight it manufactures to be free of defects in material and workmanship under use and service for 2 years from the date of purchase. This guarantee extends only to the original purchaser. This guarantee shall not apply to fuses or any product or parts which have been subject to misuse, neglect, accident or abnormal conditions of operation.
- 5.2 In the event of failure of a product covered by this guarantee, PAG Limited will repair and calibrate equipment returned to an authorised Service Facility within the period of the guarantee, provided the guarantor's examination discloses to its satisfaction the product was defective. The guarantor may, at its option, replace the product in lieu of repair. With regard to any equipment returned within this period, said repairs or replacements will be made without charge. If the failure has been caused by misuse, neglect, accident or abnormal conditions of operation, repairs will be billed at a nominal cost. In such a case, an estimate will be submitted before work is started, if requested.
- 5.3 The foregoing guarantee is in lieu of all other guarantees, express or implied, including but not limited to any implied guarantee or merchantability, fitness or adequacy for any particular purpose or use. PAG Limited shall not be liable for any special, incidental, or consequential damages, whether in contract, tort, or otherwise.

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