



Professional Broadcast Equipment

Paglight M

Miniature 12V camcorder-light

Instruction Manual

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SECTION 1

INTRODUCTION

The Paglight M camera light has been designed to suit the requirements of all professional ENG/EFP users, and is particularly suitable for smaller digital camcorders. It embodies many of the features of the larger Paglight, including a focusable beam angle, PAG's plug-in lampholder system, and a detachable power base. This radical design is protected by Patent Number 2335027 and Design Registration Number 2071515.

The light is constructed principally from specially developed glass-reinforced polymers, having high strength, impact resistance and temperature stability - resulting in a unit which has a very low weight. Integral to the lampholder 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, scientifically designed to project the maximum amount of light without incorporating the 'black holes' and flaws commonly seen with other systems. The light is continuously focusable from spot to flood, increasing or decreasing intensity with an even spectral distribution.

Lamps are fitted into quick-change plug-in lampholders which can be easily withdrawn from the back of the light. Lampholders with different wattages can be exchanged quickly and easily, with the light in situ, and without touching the lamp itself. Lampholders are stored in protection tubes to provide safe transit. Lamp protectors are moulded in high-strength, heat-resistant polymer, and can be mounted on a belt or camera bag strap.

There are two types of lampholder available for use with Paglight M, both accept 10W, 20W, & 35W G4 size halogen lamps. The Standard Lampholder is supplied with the light. The SoftStart Lampholder is designed for use with Lithium-Ion batteries, and prevents the battery protection device being tripped by the power-on surge of the tungsten filament lamp.

An accessory ring can be fitted to the front of the Paglight M, which will accommodate two parallel barndoors, a dichroic filter and a soft-light effect (frosted) diffuser. Alternatively, four barndoors may be fitted. The accessory ring is rotatable and can be locked in the desired position.

The lampholder 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 positive locking to prevent it being inadvertently knocked out of position during use.

Paglight M 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 lead lengths and connectors, for use with all popular camera configurations.

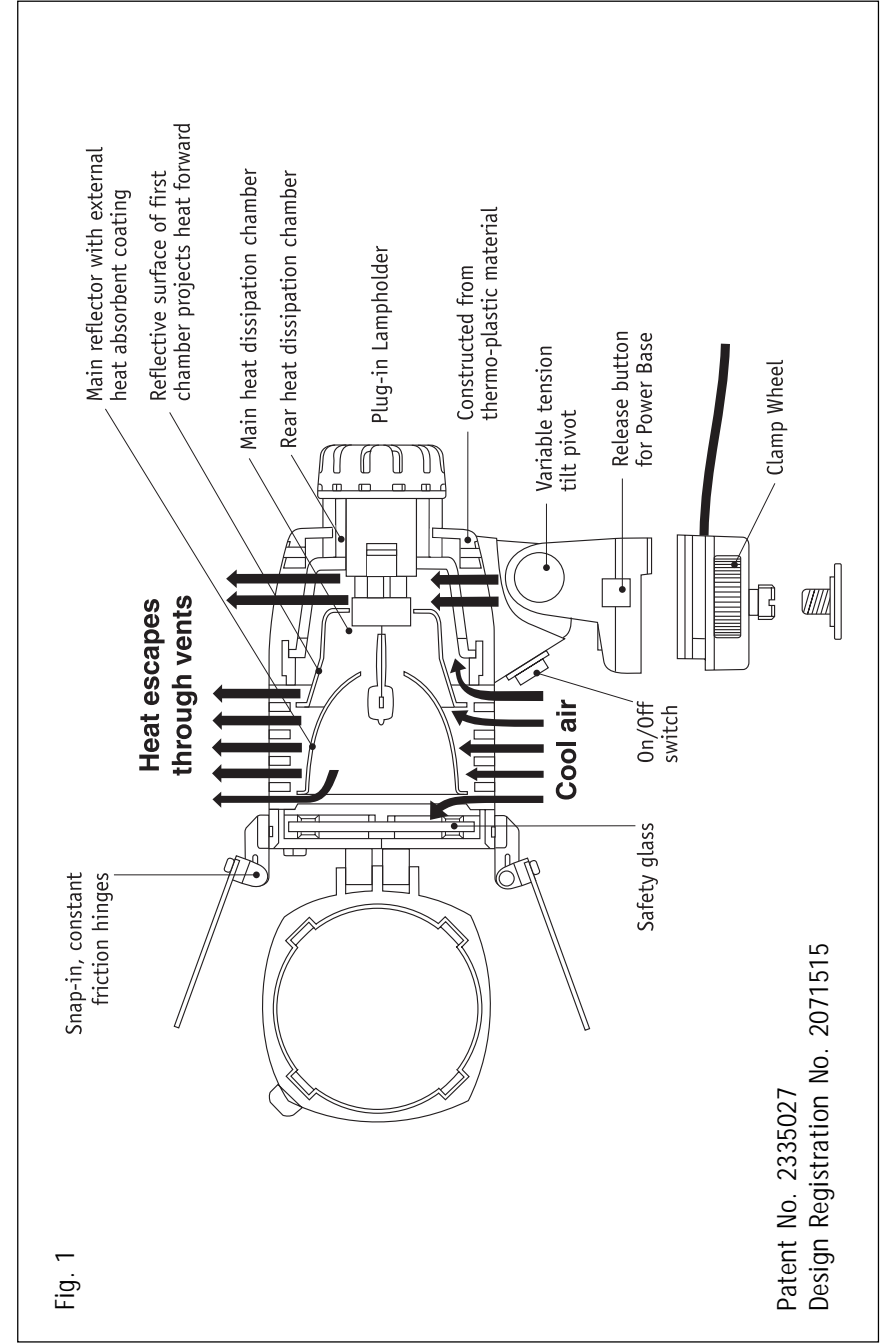
The detachable Power Base incorporates a 1/4" Whit. bush and can be mounted directly to the camera by a male to male stud adaptor (1/4" Whit.), or a camera shoe plate (1/4" Whit.), both supplied with the light.

Other mounting accessories include:

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

9906 Handle, 1/4" Whit. stud to bush.
For hand-held operation.

Contact PAG for information about mounting adaptors.



Patent No. 2335027
Design Registration No. 2071515

SECTION 2

SAFETY

This manual contains important safety and operating instructions. Please read these fully before using the light.

- 2.1 Low voltage DC input only. Do not connect to incorrect supplies (see Specifications, Section 3).
- 2.2 The Paglight M operates at high temperatures. Water or damp atmospheres could cause the lamp to rupture forcibly.
- 2.3 The Paglight M 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 Paglight M 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 Paglight M before removing or replacing the plug-in lampholder. Allow the lamp to cool before removing it from the lampholder.
- 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 Paglight Options:

- 9001** Paglight M PP90 (centre pin negative)
 - 9002** Paglight M XLR-4 (pin 1 negative, pin 4 positive).
 - 9003** Paglight M Snap-On compatible*.
 - 9004** Paglight M Sony SX compatible*.
- *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

Models:

- 9018** 10W 12V
- 9019** 20W 12V
- 9020** 35W 12V

OPERATION & MAINTENANCE**4.1 Plug-in Lampholder System**

Paglight M features a plug-in lampholder that makes fitting a lamp quick and easy. Halogen lamps are available in a range of wattages, and may be used with either the standard lampholder or with the Softstart lampholder. Plug-in lampholders enable instant wattage changes without the need to handle the lamp.

4.2 Removing the Lampholder

IMPORTANT: First switch-off the Paglight M. Gently press and turn the lampholder counter-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 extinguished. It is advisable to use a cloth to remove a failed 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 envelope 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 lampholders and lamp protectors are purchased for each wattage variant.

4.4 The Lamphead

The lamphead 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 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 quartz lamp envelope 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 barndoors 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 Paglight M Base

The base incorporates a swivelling facility with a captive locking mechanism. The camera shoe plate (included) screws into the 1/4" Whit. 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 Paglight M is quickly detachable from the low-profile 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.

Power bases are available with the following connectors:

- ▶ XLR-4 plug for connection to a Pagbelt (lead length 1m).
 - ▶ PP90 plug for connection to the light output on a PAGlok connector (lead length 500mm).
 - ▶ Anton-Bauer compatible plug* for connection to the camera light output on the Anton-Bauer camera mount (lead length 500mm).
 - ▶ Sony SX compatible plug* for connection to the camera light output on a Sony SX camera (lead length 150mm).
- *Left or right cable entry (user convertible).*

4.6 Filters & Barndoors

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

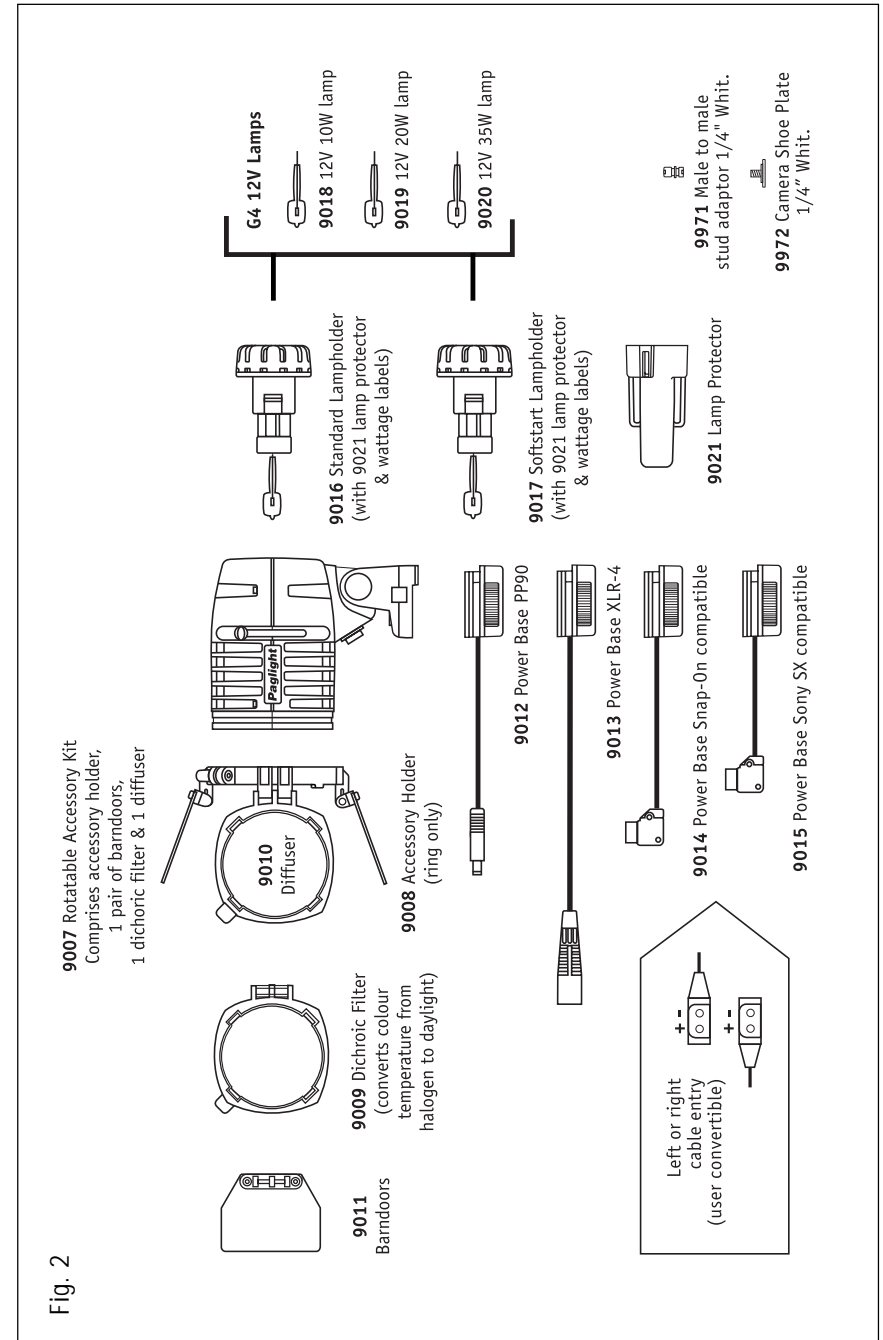
The accessory ring can be rotated and locked in position with the knurled screw. To remove the accessory ring, unscrew the knurled locking screw completely, and expand the ring over the front rim of the light. Barndoors and filters are a snap-fit onto the accessory ring, and may be assembled in any permutation. To remove, pull firmly forwards from the mounting lugs. Do not twist. Fitting is the reverse of this procedure. The barndoors 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 PAG 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.

4.7 Paglight M System Options:

- 9007 Rotatable Accessory Kit.
- 9008 Rotatable Accessory Ring.
- 9009 Dichroic Filter.
- 9010 Diffuser.
- 9011 Barndoors (pair).
- 9012 Power Base PP90.
- 9013 Power Base XLR-4.
- 9014 Power Base Snap-On compatible.
- 9015 Power Base SX compatible.
- 9016 Standard Lampholder.
- 9017 Softstart Lampholder.
- 9018 12V 10W G4 Lamp.
- 9019 12V 20W G4 Lamp.
- 9020 12V 35W G4 Lamp.
- 9021 Lamp Protector.
- 9807 Camera Mounting Clamp.
- 9906 Handle (male stud to female bush 1/4" Whit.).
- 9971 Male to Male Stud Adaptor 1/4" Whit.
- 9972 Camera Shoe Plate 1/4" Whit.



SECTION 5

WARRANTY

- 5.1 Notwithstanding any provision of any agreement the following Warranty is exclusive: PAG Limited warrants each Paglight M it manufactures to be free of defects in material and workmanship under use and service for 2 years from the date of purchase. This warranty extends only to the original purchaser. This warranty 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 warranty, PAG Limited will repair and calibrate equipment returned to an authorised Service Facility within the period of the warranty, provided the warrantor's examination discloses to its satisfaction the product was defective. The warrantor 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 Warranty is in lieu of all other warranties, express or implied, including but not limited to any implied warranty 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.