

HRO69

Notices & safety information

- Do not look through the lens towards strong illumination such as the sun.
- The mounting thread may be sharp. Handle the lens carefully to avoid injury.
- The lens is a precision optical assembly and should not be subject to excessive vibration or shock.
- Do not disassemble the lens, there are no serviceable parts inside. If the lens requires service please contact Polecam.
- In some situations (e.g. moving from a cold to warm location) air borne water vapour may condense on the lens. Avoid condensation by letting the lens adjust to the ambient temperature before removing lens caps or installing it on a camera.
- Do not touch the glass elements of the lens. To clean the lens please refer to the routine service section.
- Do not allow the lens to become wet.
- Do not use organic solvents on the lens such as thinners or acetone.

Installation & Back Focus Process

The HRO69 lens is specifically designed for use on C-mount 1/3" 3-CCD cameras.

- The lens' back-focus adjustment is factory set but may be adjusted by loosening the three grub screws at the rear of the lens.
- Set the camera to auto shuttering.
- Open the iris fully.
- Set the focus to infinity.
- Select a high contrast image to focus the lens on.
- Rotate the lens to obtain the point of critical focus i.e the point where small changes in focus no longer degrade the image quality in any particular way.
- Tighten the three grub screws steadily a part turn at a time to help maintain the bore alignment of the lens.

This process is especially important when preparing these HD lenses for 3D use.

- Always replace lens caps when not in use.

HRO69 Filter Mount

A plastic bump ring protects an M36 x 0.5 male thread for attaching Polecam LA050 and LA051 filter adapters.

The ring is removed by GENTLY circling it with your thumb and fore-finger and GENTLY unscrewing it. DO NOT GRIP IT TIGHTLY AS IT WILL NOT UNDO.

Two filter adapters are available:

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|-------|---|
| LA050 | Accepts M62 Tiffen filters or CoKin mount |
| LA051 | Accepts M40.5 filters |

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Routine service

Never touch the glass elements of the HRO69 lens.

Remove any accumulated dust or dirt with clean compressed air or a blower brush.

To remove oil or fingerprints from the lens use a soft lint-free cloth or a lens tissue dampened with alcohol or lens cleaning fluid. Wipe lightly in a spiral motion starting at the centre of the glass element and working out towards the edge. Repeat as necessary with a fresh part of the cloth or cleaning tissue.

Take care to avoid snagging of the cloth or tissue on the C-mount or filter threads.



Compliance

The HRO69 lens complies with applicable requirements for RoHS, WEEE and CE marks. Compliance certificates are available by request from Polecam.

Specifications - Optical & Mechanical

Application	1/3" 3-CCD Hi Definition lens for C-mount colour cameras
Focal Length	3.5mm (69° HFOV)
Aperture	F2.2 ~ F16
Control	Manual iris and focus with locking screws
Back focus	Factory set with adjustment available
Filters	Adaptors for M40.5 and M62 filters
Weight	159 grammes
Dimensions	Length 50mm Diameter 37mm

N.B. It is strongly recommended that lens pairs are matched for 3D use

Parts List


3.5mm Lens, 2 x locking thumbscrews, rear lens cap,


2 x front lens cap, 1.5mm hex. Key, user guide,

Peli case, 3 x foam insert (lid, body and camera filler).

Also available - filter adaptors (M62 and M40.5), iris drive gear (contact Polecam for availability)

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