

POLECAM



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FULL FRONTAL FILTER SYSTEM

SIMPLE & EASY TO USE

Supplied with 5 Tiffen Filters:-

IR Cut Filter
ND 0.9
85B
85BN9
Circular Polarizer

And 1 CoKin Filter:-

A121M Grad Neutral Grey Filter

The Polecam Full Frontal Filter System offers a complete Filter solution to the Fujinon TF range of lenses

62mm Filters ensuring NO VIGNETTING

Five popular Tiffen filters supplied:-
Can be used with the 2.8mm Fujinon Lens.

More than one filter can be easily used.

Supplied with LensPen
Supplied with CoKin Adaptor Ring
Lightweight and compact case
Room for additional filter storage
Supplied with one CoKin Grad

FEATURES

Additional HD-SDI Output available (Polecam Product)
Remote Control Panel available (Polecam product)
C-Mount Prism optics complimenting Fujinon TF4 Lenses
Polecam Full Frontal Filter System available for all Fujinon TF4 Lenses
Base plate with optional iris and focus motors (Polecam product)



SPECIFICATIONS

62mm filter- size was chosen as it offered the best range of available filters and also made it possible to combine two filters, even on the 2.8mm/89° Field-of-View Fujinon TF4 wide angle lens without vignetting!

Neutral Density- filters attenuate light uniformly across the visible spectrum and are used to reduce the intensity of the scene illumination entering the lens. "Depth of field" can be controlled with ND filters and is often the preferred alternative to exposure control by "electronic shutter". For the best results, when the lighting levels permit, using both an ND and electronic shutter can result in improved images especially in respect of achieving optimum lens performance and improved "dynamic resolution" ie: the sharpness of moving images. NB: The Polecam ND 0.9 is a 12.5% transmission/3 Stops attenuation filter but in the CoKin booklet it is referred to as an ND8 ie eight times attenuation.

Graduated Neutral Density- is simply an ND filter that gradually reduces in value into the lower half of the filter which is clear and is used to bring an overly-bright part of a scene into the dynamic range of the sensor. For example, it can be used to darken a bright sky so that both the sky and subject can be properly exposed. In essence, graduated filters optically assist the camera's Knee and clip circuits for a more natural image.

Wratten 85B- or Daylight to Tungsten conversion filters should always be used instead of electronic correction within the camera's DSP (Digital Signal Processing) circuits. Their use will result in optimum Blue channel "dynamic range" and the best Red channel "signal-to-noise" performance. The majority of cameras, including Toshiba versions, perform at their best when the colour temperature setting in the menu is left at 3200°K regardless of subject colour temperature and then any large colour correction requirements are achieved by optical filters, such as the Wratten 85. This is the very reason both Studio and ENG cameras have a "Turret Filter" selection capability. See "notes" at the end of this document for a more complete explanation.....

CoKin A121M- is quite simply an ND4 (25% Transmission/2 Stops) Neutral Density filter with its density graduated from top edge of filter downwards. It's properties are: ND 0.6 / ND4 (4 times/25% Transmission) ie 2 lens Stops).

Wratten 85B/N9- filter combines the properties of both a Daylight to Tungsten colour correction (85B) and an ND (0.9) in one filter, resulting in the ability of adding a second filter to the adaptor system without fear of vignetting.

I.R. Cut- filters attenuate any infra red "energy" that might enter the lens/camera as a result of using ND filters under daylight lighting (visual spectrum attenuation only) also when the camera is used in production environments under dimmed tungsten lighting that is often "rich" in IR "energy" that would otherwise result in some black objects appearing as deep red.

Polarizing- filters when orientated correctly will significantly reduce reflections from both wet and dry surfaces etc. Clear blue sky is polarized and the use of a PL filter will darken the appearance of the sky, improving both colour and contrast, without introducing colours to other objects. There are two types of polarizing filters available, linear and circular. Polecam chose to include the circular version in this filter Kit enabling the user to use it on any other camera. NB: Cameras that have a "through-the-lens" metering system, or "auto focus" will not function correctly with a linear filter. The reason for this is that many modern TTL camera systems use a semi-silvered mirror to siphon off some of the light coming through the lens. If that light is linearly polarized it renders either the metering or the auto focus ineffective. To confirm the type of filter you have, try viewing your computer LCD monitor through the PL filter, the linear filter performs identically regardless of which way you look through the it. The circular polarized filter only works in one direction.

One final fact worth consideration is that a PL filter is near unique amongst filters as it can not be digitally simulated in "post".

CoKin Holder - and a "Filter Solutions" booklet is included in the system. CoKin offer an amazing range of filters that are easily interchangeable and in their words this offers "simplicity and rapidity of use, leaving full room for your individual inspiration and creativity".....

Lens Pen- to assist in Keeping your optics clear of dust etc, is included in the system.

Foam cut box - with spare slots (closed cell foam to minimise dust contamination) for both circular and CoKin squares.

Spares- are available from your Polecam distributor but only filter components etc, that were originally shipped with the FFFS.

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