

Filter Systems





NYC By Dave Noonan. Photographed at f16, 42 seconds exposure. 9 stops ND plus ND Grad 0.9

Choosing a Filter System

Using a rectangular filter system allows you to make one filter purchase that is compatible with all of your lenses. First choose a filter holder or matte box with adequate coverage for your lenses (such as 100mm), then simply choose filters and filter kits to fit your holder. Circular screw-in filter users, choose a circular filter to fit the threading on the barrel of your largest lens and use step-up adapters to fit smaller lenses, or buy circular filters for each barrel size.

Resin or Glass?

There is a misconception that glass is better than resin. Formatt-Hitech's resin filters are ultra flat, have excellent contrast and are completely transparent to the visible light spectrum. Formatt-Hitech's resin has the highest abrasion/scratch resistance of any non-glass optical material and it's resistant to most solvents, chemicals, aging and material fatigue. Because of the light weight and portability, resin filters are the logical choice for still photographers and HD/SLR filmmakers using the latest generation of large sensor digital cinema cameras. Glass excels for larger filters because it does not flex.

Glass filters have historically been the choice of cinematographers using larger cinema cameras and studio lenses, and Formatt-Hitech's glass filters are the finest available, made from Schott Superwite glass.

Why Formatt-Hitech

Formatt-Hitech filters are carefully crafted in the UK using the most advanced and scientific manufacturing process in the filter industry. When developing filters, we use advanced spectrography to analyze all spectrums of visible light plus ultraviolet, infrared and near-infrared.

Formatt-Hitech use our award winning and exclusive Absorbing Cell Technology™ process to dye the resin. The Absorbing Cell Technology™ process absorbs color or effect into each cell of the resin rather than coating onto it, ensuring that the color is applied consistently across the filter. This means that each Formatt-Hitech filter is consistently replicated time after time. The densities and formulation of the dyeing process are strictly computer controlled, creating the most accurate filter reproduction in the world.



A simple holder system consists of the holder, plus an adapter ring for every lens in your collection. To add polarization to your system, purchase the polarizer adapter for your holder and a screw-in circular polarizer.



A holder system is an extremely versatile photographic tool, and a terrific investment for both photographers and HDSLR cinematographers. Holder systems give the shooter precise control over light entering the lens. This means that graduated horizons, color enhanced skies, polarization and neutral density can all be manipulated individually. For the fine art photographer, a holder system is essential. Filters give photographers the ability to alter time and the environment.



San Clemente Pier by Rod Clark. Panasonic GH2, 60 second exposure, using 14 stops of ProStop IRND



Neutral Density Filters

ND Filters attenuate light reaching the camera sensor between 1-4 stops. ND Filters are essential tools for digital filmmakers to control depth of field. Photographers use ND filters to create long exposure effects or shallow depth of field.

Neutral Density filters are available in all standard Formatt-Hitech resin and glass sizes.

Available Densities

0.3 | 0.6 | 0.9 | 1.2

Resin Sizes

67mm | 75mm | 85mm | 100mm | 150mm | 165mm

Glass Sizes

4x4 | 4x5.65 | 5x5 | 5.65x5.65 | 6x6 | 6.6x6.6

Circular Sizes

37 | 40.5 | 43 | 46 | 48 | 52 | 58 | 62 | 67 | 72 | 77 | 82
86 | 95 | 105 | 127 | 138





*Photographed by Dave Noonan. 20 stops of ND plus ND
Grad 0.9, f2.8, 121 seconds exposure.*



ProStop IRND Filters

ProStop IRND Filters are neutral density filters that block infrared radiation, eliminating the IR contamination on the digital sensor that causes black areas to appear shades of purple and brown. ProStop IRND filters are scientifically shown to be the most neutral dark ND filters on the market. Exposures in excess of 400 seconds appear perfectly neutral.

ProStop IRND Filters attenuate light reaching the camera sensor between 1-10 stops and work beautifully stacked to higher densities. ProStop IRNDs are designed for professional filmmakers and fine-art long-exposure photographers and are offered in a calibrated sets. ProStop IRND filters feature a gasket to minimize light contamination.

Available Densities Resin

0.3 | 0.6 | 0.9 | 1.2 | 1.5 | 1.8 | 2.1 | 2.4 | 2.7 | 3

Available Densities Glass

0.3 | 0.6 | 0.9 | 1.2 | 1.5 | 1.8 | 2.1 | 2.4

Resin Sizes

67mm | 75mm | 85mm | 100mm | 150mm | 165mm

Glass Sizes

4x4 | 4x5.65 | 5x5 | 5.65x5.65 | 6x6 | 6.6x6.6

Circular Sizes

37 | 40.5 | 43 | 46 | 48 | 52 | 58 | 62 | 67
72 | 77 | 82 | 86 | 95 | 105 | 127 | 138



*Bryce Canyon photographed by Joey Skibel. Soft Edge ND
0.6 grad filter on the sky, plus a circular polarizer.*



Graduated ND Filters

Graduated filters are an indispensable tool for balancing the luminosity of the sky to terrestrial objects in your composition. ND grads are popular with both fine-art photographers and filmmakers.

Generally, use soft grads for wide lenses and hard grads for long lenses. Grads are available in a variety of densities from 1-4 stops and a variety of colors for special effects.

Available Densities

0.3 | 0.6 | 0.9 | 1.2

Resin Sizes

67mm | 75mm | 85mm | 100mm | 150mm | 165mm

Glass Sizes

4x4 | 4x5.65 | 5x5 | 5.65x5.65 | 6x6 | 6.6x6.6



*Bryce Canyon photographed by Joey Skibel.
A Sunset Grad filter was used on the sky to
create this dramatic image.*



Reverse Grads

Reverse grads feature the highest intensity of the effect near the center of the filter and reduce in intensity toward the top edge. Reverse grads are specifically designed for photographing the sunrise or sunset when the highest luminosity is near the horizon.



Blenders

Blenders feature an effect transition that occurs over the length of the entire filter. The effect begins on one edge of the filter and transitions across the entire filter to the other edge. This allows for a graduated effect across your image without any specific horizon line.



Color Grads

Color grads are available in dozens of colors in both soft and hard edge grads. In addition to pure graduated colors, color grads are available in twilight (shown) and sunset.

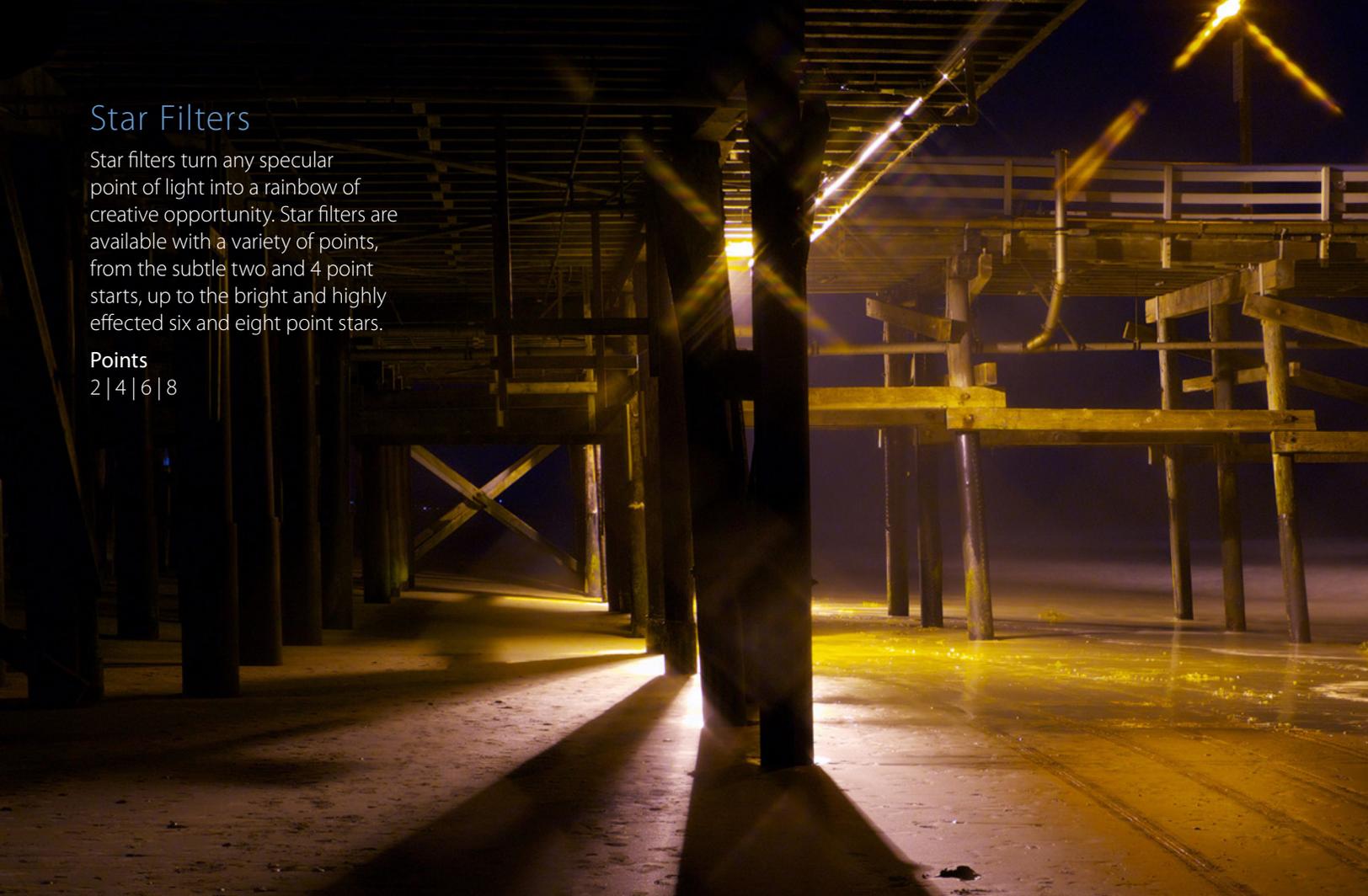
Check *Formatt-Hitech.com* for a list of colors and sizes.

Star Filters

Star filters turn any specular point of light into a rainbow of creative opportunity. Star filters are available with a variety of points, from the subtle two and 4 point stars, up to the bright and highly effected six and eight point stars.

Points

2 | 4 | 6 | 8





*San Clemente Pier by Rod Clark.
Panasonic GH2, 10 second exposure at f8 with
Formatt-Hitech 4 Point Star Filter*



Diffusion Filters

Formatt-Hitech make a variety of diffusion filters from our MovieMist series, to our Fogs, Nets, Soft Centers, and HD Softs. On camera diffusion is an excellent tool for removing the “digital” look of modern cameras, and for flattering the skin tones of your subjects.



Solid Colors

Formatt-Hitech offers dozens of solid filters in nearly every color imaginable. Solid filters are used to add personalization to color photographs. Formatt-Hitech also offers a complete set of calibrated color filters for black & white photography.



*"I think people
should know that
they're great.
I'm only using the
ProStop IRND
filters right now!"*

– Joel Tjintjelaar

*Empire State Building. This image represents
the first fine art photo produced using the new
ProStop IRND. This 316 second exposure was
created using two stacked ProStop IRND 8 filters.
This beautiful image was captured on November
12, 2012 by Joel Tjintjelaar of bwvision.com*



Polarizers

Polarizers are the essential photographic tool for adding drama to scenes with a bright sky. Polarizers are also excellent for removing reflections from windows, foliage, and water.



Warm2Cool

The Warm2Cool is an amazing visual effect that is employed by both photographers and cinematographers. Rotating the Warm2Cool alters the color temperature of the scene, allowing cinematographers a unique in-camera special effect, especially during sunrise and sunset shots.

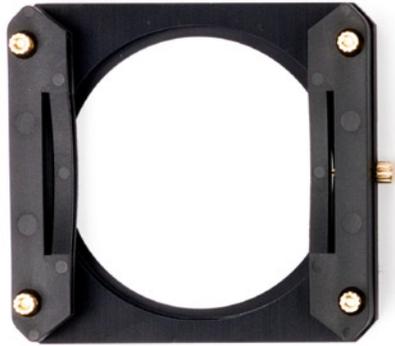


Variable ND

Rotating this filter creates a continuously variable ND effect from one to seven stops of attenuation. This filter is an essential tool for any DSLR cinematographer. The Variable ND is the quickest way to make exposure adjustments for the time constrained independent filmmaker.



The Variable ND is used to make quick exposure adjustments and is an excellent tool for creating long exposures.



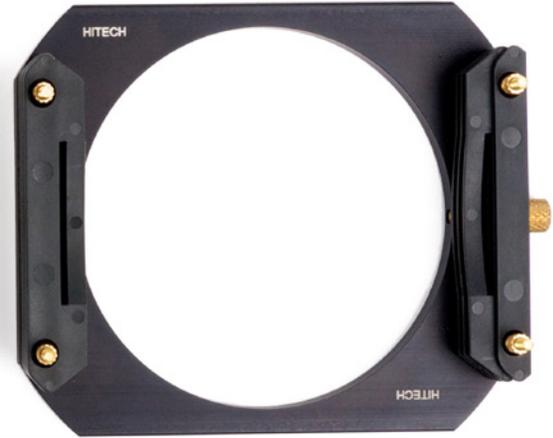
67mm Filter Holder

A professional quality holder system featuring an aluminum backplate and holds up to three filters. The 67mm system is designed for the latest generation of mirrorless system cameras including the Leica M, Sony NEX, Micro Four Thirds, and Fuji rangefinder. You can also add the aluminum 77mm circular polarizer ring.



85mm Filter Holder

A professional quality holder system featuring an aluminum backplate and holds up to three filters. 85mm is a popular size with photo hobbyists. You can also add the aluminum 95mm circular polarizer ring.



100mm Filter Holder

A professional holder system featuring an aluminum backplate and holds up to three filters. It also has spacers enabling the use of 4mm glass filters as well as our standard resin filters. This means that you can use specialized diffusion and other filters which are only made in glass. You can also add the aluminum 105mm circular polarizer ring.



85mm Plastic Holder

The 85mm Plastic 3 Slot Holder is an entry level holder with 3 fixed slots. The plastic holder is value priced and is an excellent first foray into holder systems.



Lucroit Holder

The Lucroit holder is specially designed for large-barrel wide-angle lenses such as the Nikon 14-24. The Lucroit holder uses donut adapters that fit over the lens that eliminate vignetting with these extreme wide angle lenses. Adapters are available for over 20 wide angle lenses, plus 77mm & 82mm threaded lenses. The Lucroit uses 165mm filters.



FM600 Matte Box

The FM600 is a two stage, 100mm clip-on matte box, and is the world's best selling small clip on matte box over the last 10 years. The FM600 features high quality aluminum construction. Both filter trays allow full pass-through and one of the trays is rotating for using a polarizer or adjusting grads.

SYSTEM	SOLID FILTERS	GRADUATED FILTERS (H/W)	COMPATIBLE HOLDERS	RECOMMENDED USE
165	165x165mm 6.5x6.5"	200x165mm 8x6.5"	Lucroit	Wide Angle Lenses such as the Nikon 14-24
150	150x150mm 6x6"	170x150mm 6.75x6"	Lee SW-150	Wide Angle Lenses such as the Nikon 14-24
100	100x100mm 4x4"	150x100mm 6x4"	Any 100mm / 4x4" holder or matte box	HD/SLR photo and cinema.
85	85x85mm Cokin P	110x85mm Cokin P	85mm Formatt-Hitech, Cokin P	SLRs with consumer lenses.
67	80x67mm Cokin A	80x67mm Cokin A	67mm Formatt-Hitech, Cokin A	Rangefinder cameras and small mirrorless cameras.

67 Adapter Rings

36mm | 37mm | 39mm | 40.5mm | 41mm
42mm | 43mm | 44mm | 46mm | 48mm
49mm | 52mm | 55mm | 58mm | 62mm
77mm

85mm Adapter for Aluminum Holder

49mm | 52mm | 55mm | 58mm | 62mm
67mm | 72mm | 77mm

85mm Adapter for Nylon Holder

49mm | 52mm | 55mm | 58mm | 62mm
67mm | 72mm | 77mm | 82mm

100mm Adapter

40.5mm | 46mm | 49mm | 52mm | 55mm
58mm | 62mm | 67mm | 72mm | 77mm
82mm | 86mm | 93mm | 95mm | 105mm

100mm Wide Angle Adapter

Moves the filter holder closer to the lens to reduce vignetting.

49mm | 52mm | 55mm | 58mm | 60mm
62mm | 67mm | 72mm | 77mm | 82mm

Step Adaptor

For fitting a 105mm polarizer to a smaller lens.

62-105mm | 67-105mm | 72-105mm
77-105mm | 82-105mm | 86-105mm
95-105mm

Lucroit Adapter

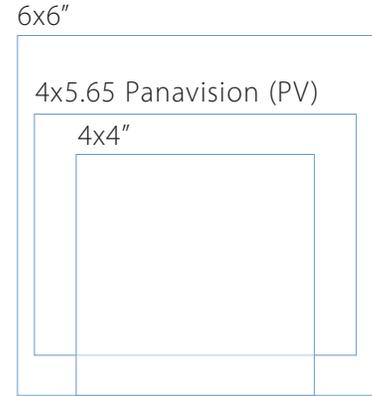
165mm	Nikon	14-24
165mm	Canon	14L
165mm	Sigma	8-16
165mm	Canon	14LII
165mm	Sigma	12-24
165mm	Olympus	7-14
165mm	Tokina	16-28
165mm	Samyang	14
165mm	72mm	
165mm	77mm	
165mm	82mm	
165mm	Pelang	8mm
165mm	Samyang	8mm
165mm	Panasonic	7-14 APSC
165mm	Pentax	12-24
165mm	Samyang	14mm f2.8 IF ED UMC



Graduated Resin



Solid Resin



Cinema Glass

