
Filters

Important Auxiliaries: Filters

Basically optical filters work in digital photography the same way as they do with film. Used properly, they favorably affect the light hitting the film or the sensor to enhance the image. Digital image processing can not always easily duplicate the filter effect.

The filter effects can be seen as a way of image processing prior to taking a picture, and this works not only easyly and quickly, but will sometimes make impossible shots possible.

Neutral **UV filters** absorb the very short ultra-violet wavelenghts, which - especially in the mountains, in high altitudes and over long stretches of water - produce a misty background caused by atmospheric stray light. As a result clear views are brighter and sharper.

Skylight filters are slightly reddish colored UV filters and give pictures a warm touch. Otherwise they have the same characteristics as neutral UV filters. They are especially useful for analogue photography.

UV/IR blocking filters do not only block UV, but additionally IR radiation. This is of importance with digital cameras, because sensors are sensitive to IR radiation. Normally digital cameras have an IR blocking filter integrated in the protective glass screen in front of the sensor, but with intensive IR radiation its blocking effect is not sufficient and color distortion and loss of contrast might occur.

Polarizing filters can enhance a blue sky, suppress unwanted glare and improve color saturation in general. In addition reflections on glass, water, shiny surfaces, e.g. on cars or on sunlit leaves, are eliminated. Polarizing filters can also reduce very high contrasts which can be an advantage with digital cameras with a low dynamic range.

Linear and **circular polarizing filters** have the same effects, their difference lies in camera compatibility. Cameras with split-beam metering or autofocus will require a circular polarizing filter. If you are not sure what to use, a circular polarizer will keep you on the safe side.

A **Neutral Density** (ND) or **gray filter** reduces the amount of light entering the camera lens without affecting the color rendition. This helps to obtain a slower shutter speed to enhance blurring of movement for example, or will result in a larger lens aperture thus enabling better separation of foreground and background. With digital cameras you may also use a lower ISO setting to achieve this, but if that is not possible, a neutral density filter will be the only solution.

With Vario-ND filters light incidence can be reduced continuously.

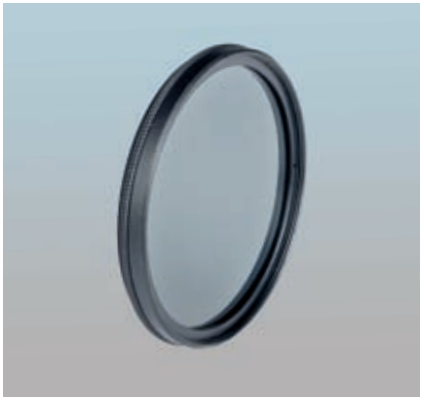
Close-up lenses reduce the minimum focusing distance of any lens. With +1, +2, +3 and +4 diopters and a standard lens you will get focusing distances less than 100, 50, 33 or 25 cm (40, 20, 13 or 10 in.). Two or more close-up lenses can be combined.

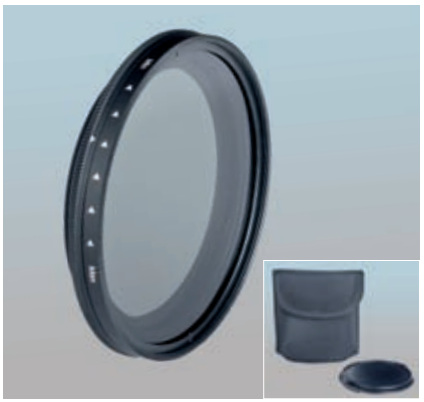
When shooting black-and white, colors are converted to different gray tones. Filters can help to enhance particular attributes or to achieve special effects. These filters are intended to used analogue black-and-white photography, but might possibly also used with digital photography.

Yellow filters are also advantageous for landscape photography, for example white clouds stand out much better against a blue sky. Once again green will contrast better. Yellow filters will also tone down skin blemishes when shooting portraits.

Orange filters provide for a lighter rendition of yellow and red, whereas blue is much darker. Landscape and architectural photos are richer in contrast and plasticity.

Red filters are perfect for generating dramatic moods in landscape photography as a blue sky becomes very dark and white clouds shine brightly. An equally intense contrast can be achieved in architectural photgraphy when shooting a bright facade in front of a blue sky.





Kaiser Filters

Common features: Light alloy mount with front thread. Supplied with storage box (except Vario ND Filter).

UV-Filters

10137-82: Slime line metal mount, blackened at the lens edge to prevent glare effects. Double-sided coating.

10237-82: Slime line metal mount, blackened at the lens edge to prevent glare effects. Six layer multi-coating on both sides, water repellent lotus effect.

Circular Polarizer

15737-82: Slime line metal mount, blackened at the lens edge to prevent glare effects. Six layer multi-coating on both sides.

Neutral Density (ND) Filters

15237-82: 4x/0.6, filter factor 4
15337-82: 8x/0.9, filter factor 8

Vario ND Filter

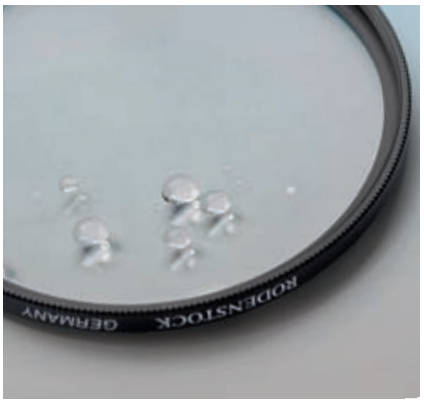
2x-400x, filter factor 2 to 400, supplied with extra lens cap and pouch.

15437: ø 37 mm, with lens cap ø 46 mm
15449: ø 49 mm, with lens cap ø 58 mm
15458: ø 58 mm, with lens cap ø 67 mm
15467: ø 67 mm, with lens cap ø 77 mm
15477: ø 77 mm, with lens cap ø 86 mm

Close-up Lenses

14137-82: Close-up lens 1, +1 dioptre
14237-82: Close-up lens 2, +2 dioptres
14337-82: Close-up lens 3, +3 dioptres
14437-82: Close-up lens 4, +4 dioptres

	UV Filter	UV Filter MC	Circular Polarizer MC	4x/0.6 ND Filter	8x/0.9 ND Filter	2x-400x Vario ND Filter	Close-up Lens 1	Close-up Lens 2	Close-up Lens 3	Close-up Lens 4
	Code #	Code #	Code #	Code #	Code #	Code #	Code #	Code #	Code #	Code #
ø 37 mm	10137	10237	15737	15237	15337	15437	14137	14237	14337	14437
ø 40.5 mm	10140	10240	15740	15240	15340	-	14140	14240	14340	14440
ø 43 mm	10143	10243	15743	15243	15343	-	14143	14243	14343	14443
ø 46 mm	10146	10246	15746	15246	15346	-	14146	14246	14346	14446
ø 49 mm	10149	10249	15749	15249	15349	15449	14149	14249	14349	14449
ø 52 mm	10152	10252	15752	15252	15352	-	14152	14252	14352	14452
ø 55 mm	10155	10255	15755	15255	15355	-	14155	14255	14355	14455
ø 58 mm	10158	10258	15758	15258	15358	15458	14158	14258	14358	14458
ø 62 mm	10162	10262	15762	15262	15362	-	14162	14262	14362	14462
ø 67 mm	10167	10267	15767	15267	15367	15467	14167	14267	14367	14467
ø 72 mm	10172	10272	15772	15272	15372	-	14172	14272	14372	14472
ø 77 mm	10177	10277	15777	15277	15377	15477	14177	14277	14377	14477
ø 82 mm	10182	10282	15782	15282	15382	-	14182	14282	14382	14482



Rodenstock Filters

Common features: Wide angle suitable slim line metal mount with front thread. High-class optical glass with supreme surface quality, blackened at the lens edge to prevent glare effects. Highly scratch resistant. Supplied with storage box.

UV Filters

17734-82: Digital pro UV MC, multi-coated, highest transmission from 400 nm, light alley mount.

17937-95: HR Digital UV super MC, multi-coated, highest transmission from 400 nm, extremely scratch resistant, water repellent lotus effect, brass mount.

Circular Polarizers

17849-82: Digital pro CPL MC, multi-coated, absolutely colour neutral, light alley mount.

18049-95: HR Digital CPL super MC, multi-coated, absolutely colour neutral, extremely scratch resistant, water repellent lotus effect, brass mount.

Neutral Density (ND) Filters

Multi-coated, colour neutral, brass mount.

18249-82: HR Digital ND 0.3/2x MC, filter factor 2

18449-82: HR Digital ND 0.6/4x MC, filter factor 4

18849-82: HR Digital ND 0.9/8x MC, filter factor 8

Variable ND Filter

18949-82: Digital Vario ND 2 – 400 MC, multi-coated, colour neutral, light alley mount.

UV/IR Filter

19037-82: HR Digital UV/IR, steep edge interference filter, colour neutral, brass mount.

Skylight Filter

16237-95: Skylight MC, multi-coated, brass mount.

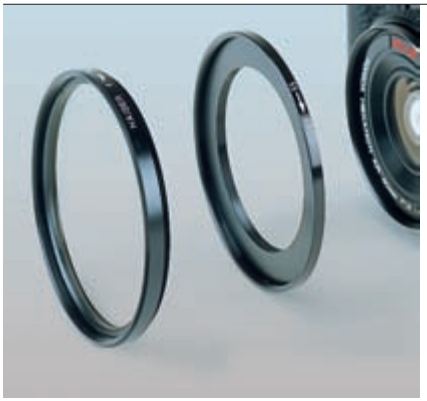
Filters for Black & White Photography

Coated, brass mount.

16537-95: Medium yellow filter
15837-95: Dark yellow filter
16737-95: Orange filter
16837-95: Bright red filter
16037-95: Dark red filter

	„Digital pro UV MC“ UV Filter	„HR Digital UV super MC“ UV Filter	„Digital pro CPL MC“ Circular Polarizer	„HR Digital CPL super MC“ Circular Polarizer	„HR Digital ND 0.3/2x MC“ ND Filter	„HR Digital ND 0.6/4x MC“ ND Filter	„HR Digital ND 0.9/8x MC“ ND Filter	„Digital Vario ND 2-400 MC“ ND Filter	„HR Digital UV/IR“ UV/IR Filter	„Skylight MC“ Skylight Filter	Medium Yellow Filter (8[1])	Dark Yellow Filter (15[1])	Orange Filter (22[1])	Bright Red Filter (25[1])	Dark Red Filter (29[1])
	Code #	Code #	Code #	Code #	Code #	Code #	Code #	Code #	Code #	Code #	Code #	Code #	Code #	Code #	Code #
ø 34 mm	17734	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ø 37 mm	17737	17937	-	-	-	-	-	-	19037	16237	16537	15837	16737	16837	16037
ø 39 mm	-	17939	-	-	-	-	-	-	-	16239	16539	15839	16739	16839	16039
ø 40.5 mm	17740	17940	-	-	-	-	-	-	19040	16240	16540	15840	16740	16840	16040
ø 43 mm	17743	17943	-	-	-	-	-	-	19043	16243	16543	15843	16743	16843	16043
ø 46 mm	17746	17946	-	-	-	-	-	-	19046	16246	16546	15846	16746	16846	16046
ø 49 mm	17749	17949	17849	18049	18249	18449	18849	18949	19049	16249	16549	15849	16749	16849	16049
ø 52 mm	17752	17952	17852	18052	18252	18452	18852	18952	19052	16252	16552	15852	16752	16852	16052
ø 55 mm	17755	17955	17855	18055	18255	18455	18855	18955	19055	16255	16555	15855	16755	16855	16055
ø 58 mm	17758	17958	17858	18058	18258	18458	18858	18958	19058	16258	16558	15858	16758	16858	16058
ø 62 mm	17762	17962	17862	18062	18262	18462	18862	18962	19062	16262	16562	15862	16762	16862	16062
ø 67 mm	17767	17967	17867	18067	18267	18467	18867	18967	19067	16267	16567	15867	16767	16867	16067
ø 72 mm	17772	17972	17872	18072	18272	18472	18872	18972	19072	16272	16572	15872	16772	16872	16072
ø 77 mm	17777	17977	17877	18077	18277	18477	18877	18977	19077	16277	16577	15877	16777	16877	16077
ø 82 mm	17782	17982	17882	18082	18282	18482	18882	18982	19082	16282	16582	15882	16782	16882	16082
ø 86 mm	-	17986	-	18086	-	-	-	-	-	16286	16586	15886	16786	16886	16086
ø 95 mm	-	17995	-	18095	-	-	-	-	-	16295	16595	15895	16795	16895	16095

[1] corresponding Kodak filter designation



6542-99
Filter Adapter Ring

For mounting filter and front attachments to lenses with deviating mounting threads. Precision metal rings with dull black surface. (6585: silver surface).

Lens thread – Filter thread

6547: 27 - 37
6584: 28 - 37
6585: 30 - 37
6586: 30.5 - 37
6588: 34 - 37
6589: 37 - 43
6542: 37 - 46
6543: 37 - 49
6544: 37 - 52
6591: 39 - 43
6592: 40.5 - 43
6593: 40.5 - 46
6594: 40.5 - 49
6548: 40.5 - 52
6599: 41.5 - 46
6595: 43 - 46
6596: 43 - 49
6549: 43 - 52
6545: 46 - 49
6546: 46 - 52
6597: 46 - 55
6550: 49 - 52
6551: 49 - 55
6552: 49 - 58
6555: 52 - 49
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6557: 52 - 58
6558: 52 - 62
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6562: 55 - 58
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6566: 58 - 67
6569: 62 - 58
6570: 62 - 67
6571: 62 - 72
6572: 62 - 77
6573: 67 - 58
6574: 67 - 72
6575: 67 - 77
6576: 72 - 58
6577: 72 - 77
6578: 77 - 58
6579: 77 - 82