

# B+W Filter Square Filters and Filter Holder.

Premium Photography.



# B+W Square Filters

## Flexible Solution: Popular among landscape photographers

Taking impressive photos as opposed to simple snaps requires not only experience and high-quality photo equipment, but also the appropriate high-quality photo filters because optical filters are indispensable tools for modern creative photography. Due to their impressive quality, B+W square filters have become the choice of many demanding professional and amateur photographers.

B+W square filters are suitable for all common holder systems with filter channels with a width of 100 mm and a height of 2 mm. In addition to their own filter holder system, B+W square filters are also compatible with holders from Lee, Cokin, H+Y, Nisi, Rollei, Zomei, Lensinghouse, Formatt Hitech, Singh Ray, Haida and many others.

## The most important specifications of B+W square filters:

- Finely ground and polished special glass for extremely high image quality
- Dimensionally stable glass that will not warp
- Innovative coating combination with homogenous filter effect and high colour fidelity
- High-quality MRC system for a low-reflective surface
- Nano coating protects glass and facilitates rapid, simple cleaning



Photo taken with B+W graduated ND filter 702 and B+W filter 810 ND 3.0

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Photo taken with B+W graduated ND filter 702 MRC

## B+W Filter Holder with Aluminum Frame

for square filters 100 x 100 x 2 mm

### B+W Square Filters: Essential for rapid filter changes

Our filter holder provides the perfect entry into a professional modular filter system, particularly popular with landscape photographers as the filters are quickly changed by simply sliding in and out. The filter holder is attached to the lens beforehand via an adapter ring. B+W supplies adapter rings with several different threads for a wide range of lens diameters. Intermediate sizes are accommodated by additional adapter rings from the B+W range.

The filter channels accept square filters with an insertion size of 100 mm width with a glass thickness of 2 mm. The holder also facilitates adjustment of the filter channels in the event of any variations in thickness of the filter glass (a small screwdriver is supplied for this purpose). The holder accepts up to three square filters. In addition, a thread for filters of 86 mm diameter is available, into which a polarising filter may be inserted and adjusted, for example. A lens hood prevents the incidence of light when using strong ND filters with extremely long exposure times.

### Key Features

- B+W filter holder with aluminium frame for square filters 100 x 100 x 2 mm
- Rigid aluminum frame provides increased stability
- Slots for up to three filters
- Adapter rings with additional thread for filters with  $\varnothing$  86 mm
- Sealing to prevent lateral incidence of light with extremely long exposure times
- Lens adapter rings  $\varnothing$  52 / 55 / 58 / 62 / 67 / 72 / 77 and 82 mm



# B+W Neutral Density Filters

## More creativity for landscape photography

Neutral density filters (also called ND filters) reduce the incident light evenly and facilitate slower shutter speeds for impressive effects. ND filters create their characteristic fascinating wipe effects with moving subjects. A waterfall does not appear “frozen”, but “in flow”; a cloudy sky appears diffuse and atmospheric. In the case of very long exposure times of several seconds, any people walking through the image either appear blurred or disappear completely. With this trick you can remove whole crowds of people in public places from the picture – whilst capturing the image and without complex post-processing.

## Application examples:

- Flow effects in moving water
- Wipe effects: blurred sky, stretched light trails
- “Empty” places with extremely long exposure times
- Reduction of depth of field
- Graduated filter to balance contrast between sky and landscape
- Can be used in conjunction with other filters to increase effects

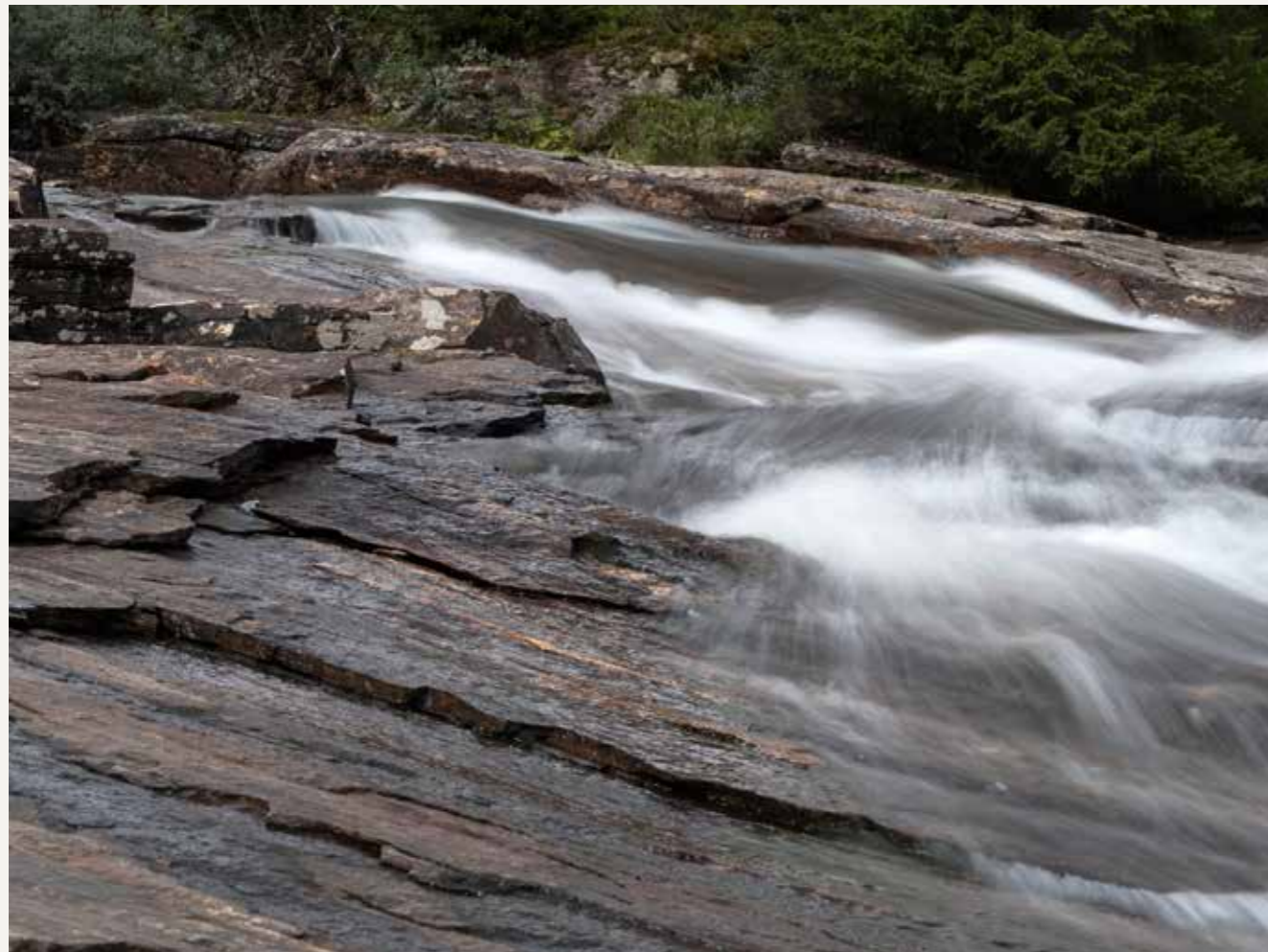


Photo taken with B+W filter 810 ND 3.0

# B+W ND Filters 802, 803, 806 and 810

High-quality finely ground and polished special glass forms the basis of the ND square filters. This guarantees the necessary optical quality and ensures that a high quality lens is not compromised.

The ND filter effect is created by coating the glass surface. Uniformity is important because only then is light evenly attenuated over the entire visible area, resulting in optimum colour-neutral images. Using this manufacturing technology, a combination of coatings ensures the highest quality filter lenses and, in addition to the filter effect, reduces unwanted reflections via an anti-reflex system (7 layers per filter side).

Finally, a water-and-dirt-repellent nano coating is applied. This scratch-resistant coating protects the whole of the square filter. It also facilitates easy cleaning and maintenance of the filter.

The innovative ND coating technology delivers considerably higher colour fidelity when compared to melted ND filters. The coating material can almost completely balance the physically induced excess of red component.

Thanks to the optimised colour reproduction across the visible light spectrum, subsequent image processing is made easier and less time consuming for the photographer.

## Information

The effect of two ND filters results from the sum of the density values. For example, the B+W ND filters 802 (ND 0.6; +2 f-stops) and 803 (ND 0.9; +3 f-stops) combined creates a density of ND 1.5 and thus comply with the effect of +5 f-stops.

## Practical tips:

- Flow effects can be created with a shutter speed of 1/4 second and above.
- The longer the exposure time, the stronger the effect (ND 806/810)
- Experiment with different exposure times
- Use the manual exposure setting
- Use low ISO sensitivities and small aperture values
- A stable tripod is essential



802 ND 0.6  
MRC nano



803 ND 0.9  
MRC nano



806 ND 1.8  
MRC nano



810 ND 3.0  
MRC nano



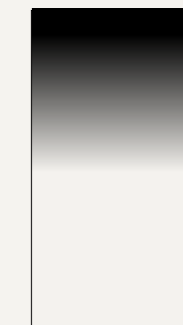
## B+W ND Graduated ND Square Filters 701 and 702

### Light balance between sky and landscape

Graduated ND filters facilitate the balance of light in the event of high contrast between the sky and the landscape. Clouds become more defined and the sky becomes a deeper blue. The square filters are tinted halfway in a neutral grey, with a soft transition half-way through the filter. They can be manoeuvred and rotated in the filter holder to adjust the transition according to the horizon.



B+W 701 MRC, 50 %



B+W 702 MRC, 25 %

Graduated ND square filter with MRC coating 100 x 150 x 2mm



Photo taken without filter



Photo taken with B+W ND filter 702

# B+W Cleaning and Care Products

## Only clean optics deliver good pictures

Dust and fingerprints are the biggest enemies of extremely high image quality and they also impair the optical performance of high-quality lenses or optical filters. Heavy residue on the filter, the lens front, and even on the rear of the lens can reduce the amount of light that is allowed through to the sensor so strongly that stray light, ghost images and reflections diminish contrast and weaken colour saturation. Regular and above all correct cleaning of lenses and filters is therefore paramount for serious photographers. B+W provides new professional cleaning and maintenance products for precisely these purposes.

The B+W cleaning utensils are available in different care sets. The sets include a practical draw-cord pouch in which the utensils can be kept. Held together compactly like this, it can also be kept in a smaller camera bag. The pouch is big enough to accommodate further contents depending on personal needs.

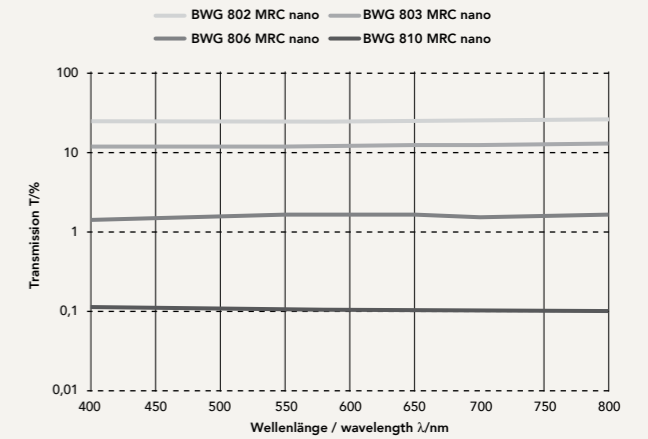


# Technical Data

## Overview Square Filters 100 x 100 x 2 mm

Category	Type	Density	Stops	%	Coating
Neutral Density Filter	802	ND 0.6	2	25	MRC nano
	803	ND 0.9	3	12,5	
	806	ND 1.8	6	1,6	
	810	ND 3.0	10	0,1	
Graduated ND filter*	701	ND grad. 50	+ 1**	50	MRC
	702	ND grad. 25	+ 2**	25	

\*GND 100 x 150 x 2 mm / \*\* in the darkest place at the margin



## Order Information

### Filter holder with adapter ring

Ident number	Type
1091304	Alu filter holder 100 x 100 x 2 mm
<b>Separately to order</b>	
1091316	Lens adapter ring for filter holder Alu Ø 52 mm
1091317	Lens adapter ring for filter holder Alu Ø 55 mm
1091318	Lens adapter ring for filter holder Alu Ø 58 mm
1091319	Lens adapter ring for filter holder Alu Ø 62 mm
1091320	Lens adapter ring for filter holder Alu Ø 67 mm
1091321	Lens adapter ring for filter holder Alu Ø 72 mm
1091322	Lens adapter ring for filter holder Alu Ø 77 mm
1091323	Lens adapter ring for filter holder Alu Ø 82 mm



B+W filter holder with adapter ring

### ND filter and graduated ND filter

Ident number	Type
1089121	BWG 802 ND 0.6 MRC nano 100 x 100 x 2 mm
1089122	BWG 803 ND 0.9 MRC nano 100 x 100 x 2 mm
1089123	BWG 806 ND 1.8 MRC nano 100 x 100 x 2 mm
1089124	BWG 810 ND 3.0 MRC nano 100 x 100 x 2 mm
1075266	BWG 701 Graduated-ND filter 50 % MRC 100 x 150 x 2 mm
1075267	BWG 702 Graduated-ND filter 25 % MRC 100 x 150 x 2 mm



B+W filter holder with XS-Pro HTC polarizing MRC nano

### XS-Pro Digital HTC Circular Polarizer Käsemann MRC nano

Identnummer	Type
1081480	XS-Pro Digital HTC Circular Polarizer KSM MRC nano 86

Photography  
 Michael Frede, [www.fotoabenteuer.de](http://www.fotoabenteuer.de), pages 3 and 6  
 Radek Plihal, page 9  
 Andreas Wanner: Title, pages 4, 5, 8 and product images

Jos. Schneider Optische Werke GmbH  
Business Unit B+W Filter  
Ringstraße 132  
55543 Bad Kreuznach  
Germany  
Phone: +49 671 601-122  
[filter@schneiderkreuznach.com](mailto:filter@schneiderkreuznach.com)  
[www.schneiderkreuznach.com](http://www.schneiderkreuznach.com)

