OPTICAL FILTER
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### Qlick Mount

### Magne' Mount

### Coating Variation
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- Dynamic Coat: 18
- Water Proof Coat: 18
REASONS FOR QUALITY ... 

● **Experience**

Since the establishment (MARUMI CO., LTD.) in 1952 we have gained experience in every field for manufacturing of the optical peripherals; from marketing to final assembling.

● **Needs oriented**

We put emphasis on intimate relationship with customers and always endeavor to meet new demand with innovative products.

● **Continuous Operation**

We conduct all steps by ourselves. We do material processing, glass polishing and assembling to realize our product ideas. It is the best manufacturing system to create genuine product items for our customers.

MARUMI, the Major Manufacturer with Quality Conscious!
"DHG" (Digital High Grade) SERIES: Specially Designed For Digital Cameras

Digital camera’s CCD and CMOS convert the lights into electric signals. This is the reason why lens’ inner reflection, flare, ghost and some other phenomenon rise and result in inferior quality of picture, consequently.

The DHG series can minimize these phenomenon and maximize the performance of your lens.

**Features For Digital Cameras**

1. **Special Coating**
   
   New developed ultra-low reflection coating for digital cameras does minimize flare and ghost.

2. **Black-ink process on lens’ outer rim**
   
   Lens’ outer rim is painted in black to minimize inner reflection.

3. **Special frame**
   
   "Satin"-like smooth frame having quality appearance does minimize extra reflection.
DHG Lens Protect
minimizes flare-ghost and optimizes the performance of lenses for digital imaging. Due to the very thin frame, pictures taken with super wide-angle lens are not to be vignetted.

DHG Circular PL (D)
The ideal circular polarizing filter for digital cameras, featuring DHG Coating. The DHG Circular PL(D) maximizes the lens’ performance and represents contrasty pictures. Suitable also for wide-angle lenses. Front lens cap can be attached.

DHG Light Control-8
The ideal light volume reduction filter for digital shooting. With the DHG Light Control-8 you can shoot 3-steps slowly by the aperture value and represent pictures with “Streaming”. Color reproduction will be hardly influenced. Its very thin frame does enable you to take pictures without vignette also with super wide-angle lenses.

DHG Macro 3
Ideal for close-up shooting with digital cameras. The DHG Macro 3 shortens focal distance and enables you to enjoy macro shooting without complicated arrangement. Its high-frame does cut unexpected rays from side light sources to minimize extra reflection.

DHG Star Cross
the DHG Star Cross generates definite star-effects and minimizes flare-ghost caused by light sources. The direction of beams can be changed by rotating the frame.

DHG Soft Fantasy
The ideal soft-effect filter for digital shooting. Its original “Foamed Pattern” generates soft effect, while Images can be represented “Clear-Focused”. Flare-ghost and inner reflection flare can be minimized at the same time.

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Filters for Everyday-Use

- **UV**
  Blocks ultraviolet rays. Ultraviolet rays make your pictures blue, and photographs taken with monochrome films hazy. Most effective for distant objects. A "MUST" filter for shooting in coastal and mountainous areas in fine weather.

- **1B**
  Regulates color balance and reduces blue cast. Bluish tints of skylight affect the color tones of pictures, especially in shadow of objects on a fine day.

- **N**
  A multi coated colorless filter with high clarity. For protecting object lens against stains and scratches. Suitable as a protector in everyday-use.

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Hi-Grade Filters for Everyday-Use

- **NEO Dynamic L400**
  The NEO Dynamic L400 has high transparency to visible rays and reduces ultraviolet rays below them, especially effective around 400 nm. Its ultra-thin frame does not affect taking pictures with a wide angle lens. With thread also on the front end of filter frame.

### Spectrum curve

- **MC-L370 Dynamic**
  The scarcely colored "Dynamic Coat" does hardly affect color reproduction and cut ultraviolet rays. Suitable for shooting with reversal films, too.

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Polarising Filters

- **P.L/C-P.L**
  Color contrast filters, can represent deeper blue of the sky and brilliant white of clouds. And they do block reflections of water and window glasses. For taking pictures with a touch of clearness.

- **MC-P.L/MC C-P.L**
  A multi coated polarizer, having higher transparency and less reflection on filter surface than normal ones. Recommendable for high quality photography. Both types are equivalent in polarizing efficiency.

- **Wide C-P.L**
  A circular polarizer for ultra wide lenses, assembled in an ultra thin frame. For capturing non-vignette pictures even in using super wide angle lens. No thread on front side. The screw type models of lens-hood and lens-cap are not to be attached.

P.L filters are exclusively for manual operation. Use C-P.L filters for automatically exposing and focusing.

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Color Enhancers

- **REDHANCER/REDHANCERLIGHT**
  enhance only red color tone slightly without affecting whole tone of pictures. Light rosy photographic objects like flowers can be taken most effectively.

- **GREENHANCER/GREENHANCERLIGHT**
  the first green color enhance filter series of the world. Effective both under ordinary and back ray. They do engage to recreate bright greenness of new green leaves and mosses. The GREENHANCERLIGHT changes color temperature quite slightly and do not affect whole color tones of pictures.

- **BLUEHANCER/BLUEHANCERLIGHT**
  A just “Blue colored” filter brings out only bluish pictures. The BLUEHANCER can emphasize blue tone and chroma of cloudy sky and seawater. The BLUEHANCERLIGHT does not affect other color tones. Suitable for capturing objects along with whitish area.

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**Color Correction Filters**

- **80A/B**
  Shooting with a daylight film under white home-use electric bulbs brings reddish pictures, for the color temperature of the bulb is too low. The MC-80A/B do correct color temperature to get natural color tones. The MC-80A normalizes the color temperature of coming rays from light sources of 3200 Kelvin. The MC-80B rays from light sources of 3400 Kelvin. The MC-80A is more effective.

- **81A/B**
  Pictures taken on cloudy days, especially in shadow, are bluish without warmth. The MC-81A/b do correct this high color temperature and can represent natural color tones of healthy human skin, for example. Type B is more effective and most recommendable for shooting in shadow on cloudy days.

- **82A**
  The color temperature early in the morning and before sunset is too low and pictures will be reddish. The MC-82A, a "Cool Color Filters", is indispensable to correct it.

- **85A/B**
  Pictures taken in daytime outside with tungsten films will be bluish. The MC-85A/B do correct it. Type A is for 3400˚ Kelvin tungsten films and type B for 3200˚ Kelvin.

### Color temperature correction filters: type and application

<table>
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<tr>
<th>Color Temperature</th>
<th>Daylight Color Film (Solar light)</th>
<th>Tungsten Color Film (Artificial light)</th>
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<tr>
<td>3000 K</td>
<td>normal</td>
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<td>4000 K</td>
<td>reddish</td>
<td>photographic bulb</td>
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<td>5000 K</td>
<td>bluish</td>
<td>power - use household bulb</td>
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<td>6000 K</td>
<td>skylight (reflection)</td>
<td>sunlight</td>
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**Efficiency depends on using film.**

- **F-DL/F-TB**
  Both types are suitable for shooting under fluorescent light sources mixed with daylight. The F-DL is for daylight films and the F-TB for tungsten films.

- **F-WL**
  The F-WL is only for fluorescent light source and corrects cloudy green tone. Effective for all types of fluorescent lamps. Red-violet color tone at setting sun will be emphasized.
**Light Volume Reduction Filters**

- **ND2/4/8**
  Reduce only light volume without affecting whole color tones. A product series with improved quality manufactured by vacuum "Chemical Vapor Deposition (CVD)" technology. Aperture can be controlled intentionally to capture new images. It brings fluidity to your photographs. For shooting outdoors, at the seaside or in snow mountains with sensitive films.

- **HALF-ND4**
  Reduces light volume of the half of picture frame including too bright or too dark part and brings well-balanced reproduction. Filter frame can be rotated. Efficiency reaches 2 aperture value.

- **CENTER ND-II**
  A kind of graduation filter and can reduce light volume only in center area to cover shortage of light volume in perimeter area. Efficiency reaches 1.5 aperture value. Recommendable for wide angle lenses of middle and large format cameras.

---

**Close-Up Lenses**

- **CLOSE-UP +1/+2/+3/+4**
  Magnifier for non-macro lenses. The CLOSE-UP+ series is free from distance or magnification-value while macro-zoom lenses are subject of restriction. Can be used in all zooming area. Magnification value changes by zooming and focusing.

- **MACRO +10**
  For ultra magnification. Objects can be captured in actual size with a focal distance lens over 100mm (in 35mm "Small-Format").

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- **SIKLY SOFT A/B**
  Universal "SOFT EFFECT" Filters. Featuring original optical glass processed finely and flatly. Type B is more striking than type A.

- **DUTO**
  create slight blur and brings soft atmosphere. The concentric circle groove causes diffusion effect.

- **DIFFUSION/DIFF-II**
  The standard "soft effect" filters. The DIFFUSION do refract rays and can create natural blur. The DIFF-II with higher refractive index do portray objects more softly.

- **SPOT**
  Due to a center hole, only the perimeter area of picture frame get blurred. Suitable for shooting with wide angle and normal zoom lenses.

- **SOFT-SPOT/SAND-SPOT**
  "SOFT EFFECT" Filters with clear area. The SOFT SPOT, a variation of the DIFFUSION, has a clear center area and takes effect only in the perimeter area of pictures. The perimeter area of the SAND SPOT is frosted. It brings masking effect and can brighten photographic objects standing in the center.

- **FOGGILIZER**
  A mist-maker. The FOGGILIZER creates a particular atmosphere to pictures by ray-diffusion effect.

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Special Effect Filters for unique "Action" effects. Various "ACTION" effects in perimeter area can make photographic objects stand out. 6 variations are available.

- **MERCURY**
  An object in the center area seems to be rotating in a blurred circle.

- **VENUS**
  Engraved circles bring a special effect like zooming. Recommendable for shooting moving objects.

- **MARS**
  A Whirlpool streaming out from the center of picture frame creates dynamic effect.

- **JUPITER**
  Generates circular streams around the center hole. Pictures can be changed by moving shooting angle.

- **SATURN**
  Brings expressive zooming effect. Recommendable to taking pictures with rushing images.

- **NEPTUNE**
  Generates running patterns in one direction. Pictures can be changed by moving shooting angle.

Filters of the PLANET-Series are designed for the shooting area within 35mm - 80mm.
The light beam filters generate light beams bursting from the point of light sources. The light source will be represented quite impressive.

- **CROSS SCREEN**
  generates crossed ray beams. They emphasize glaring sunshine reflected by the sea and bring brilliant atmosphere to night scenery. Angel of the crossed ray beams can be set by rotating of filter frame. Longer beams with a lens with longer focal distance.

- **6X-/8X-CROSS**
  generate Light Beams in 6 and 8 Directions. The 6X-CROSS creates beams in 6 directions and the 8X in 8. For impressive representations.

- **PARALLEL SCREEN SET (VARI CROSS)**
  The PARALLEL SCREEN SET is assembled as a combination of 2 filter glasses. By rotating one of them the angel of crossed beams can be regulated. And different Images can be captured. Scenery without any light source will be taken soft-effected.

- **RAINBOW CIRCLE**
  Pouring light in rainbow color. The RAINBOW CIRCLE generates rainbow beams in a certain direction from light sources. It appears like shower of rainbow.

- **DR-4X/8X/18X/36X/36XSQ/48X/HALO**
  DR is the abbreviation for "DIFFRACTION RAINBOW". The figure means the number of the Light-Shafts bursting from light sources.

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● **SEPIA**
creates a nostalgic atmosphere
With the SEPIA an ordinary scene in daily life will turn into mono-tone world, as it would go back to the good old days.

● **GC FILTERS**
generate graduation color effect only the half of picture format. Objects in a certain color can be emphasized. Fantastic atmosphere with an eccentric color combination will come out.
9 types are available:
- GC Brown / GC Wine / GC Gray / GC Violet / GC Green / GC Pink / GC Lilac / GC Yellow / GC Blue

● **VIGNETTE**
generate color effect only in perimeter area.
6 colors in available:
- Y-V (Yellow) / R-V (Red) / V-V (Violet) / G-V (Green)
- B-V (Blue) / O-V (Orange)

● **EXOTICOLOR SET**
The set of 3 color filters represents vivid color tones, much more than any other filters.

● **SPECTRA COLOR SET**
The combination of red, green and blue filters, can only change the color of moving objects; by 3 X exposures, with each filter at a time. The color tones of still objects remain unchanged.

● **BI-COLOR / TRI-COLOR**
The BI-COLOR has 2 and the TRI-COLOR 3 color areas divided into equal parts. Both types rise mysterious atmosphere. With smaller aperture value, the dividing line more clearly on a picture.

● **CHANGEABLE COLOR**
changes color tone without steps by rotating filter frame. Regulated color tone can be checked in your viewer. 5 types are available:
- Y-G (Yellow-Green) / Y-R (Yellow-Red) / G-R (Green-Red)
- B-Y (Blue-Yellow) / R-B (Red-Blue)

● **WONDER COLOR**
changes only the density of a certain color without steps by rotating filter frame. 4 types are available:
- B-C (Orange) / Y-P (Yellow) / B-P (Blue) / R-P (Red)

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**NOTE*) Efficiency depends on focal distance and aperture value. Standard Zoom lenses (28 mm~70 mm) are recommendable.

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12
**TRIANGLE**
generates three images radially from a single object. The position of images can be moved by rotating filter frame.

**2/4/5/6-SECTION**
Images come out through the SECTIONs from a single object with color effect in perimeter area. The position of images can be moved by rotating filter frame. Suitable for standard zoom lenses.

**VERTICAL & 5/6-PARALLEL**
A prism generates same images from a single object running parallel to each other. The position of images can be moved by rotating filter frame. Suitable for standard zoom lenses.

**DUAL IMAGE**
creates 2X Half-Frame-Pictures in one frame by double exposure, for the DUAL IMAGE can shade a half part of the picture frame. First, expose a half frame and expose again the other after reversing the filter. A funny picture will come out. A tripod indispensable. For wide angle lenses.

**FILT UP**
The FILT UP makes your camera "Bi-Focal". A half of the FILT UP is a convex lens. Both objects standing near and distant can be focused on at a same time. The focus area of the convex lens is 20 cm to 50 cm. Most effective with a standard zoom lens.

**ODD OUT**
A filter with vanishing zone. Applied the property of a prism, the ODD OUT can conceal objects standing in the center of picture frame, while the rest objects will be combined with each other naturally. Sufficient by single exposure.
**Filters For Monochrome**

The key to the mono-tone world: Pictures taken with monochrome films can be defined only by contrast.

- **Y2/YA2/R2**
  Pictures taken with any monochrome films represent scenes with black & white graduation of density. Pictures will change much by tuning contrast. The order of efficiency (moderate to striking): Y2 (yellow) < YA2 (orange) < R2 (red)

- **PO0(ZERO)/PO1(ONE)**
  Green-colored filters can rise the contrast of reddish objects. The both P0-filters can represent human skin and lips in proper tone. The PO1 (ONE) is more striking than the PO0 (ZERO).

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**Other Precious Filters**

- **SL One-Touch Filter**
  A filter series for easy mounting/dismounting. The combination of a cover-up type filter and an adapter ring for easy mounting. You can mount the very filter quite simple and quickly when you need it.

  Filters are available in two sizes (58mm/72mm). And the SL Adapter Rings make you possible to use many other filters in different sizes.

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Only Push In To Mount, Only Pull Out To Dismount!

The Single Action Mounting System

- **Quick and Steady**
  An innovation for quick shooting. Only push in to mount. You will be ready to shoot at cyberspeed and can’t miss the best shutter timing any more. Hard rubber balls hold frame tight on your lens.

- **Smooth Rotation**
  Can rotate both ways smoothly. The best effect position can be found without stress.

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The Mounting System with a Magnet Ring

**Simple and Lighthearted**

An unique mounting system with a magnet ring that holds adhesive washer set on lens top. Much more opportunities for active goer. The "Magne' Mount" makes you possible to enjoy filter effects even with:

- Cellular Phone with Digital Camera, Disposal Camera, Compact Digital Camera and more.

---

**Peel the Back Sheet of Adhesive Washer.**

**Stick on the Adhesive Washer on Lens Top.**

**Set the Filter on the Adhesive Washer.**

**Ready to Shoot.**

---

**Types Available**

<table>
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<th>Outer</th>
<th>Inner</th>
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<tr>
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<tr>
<td>S 29.0</td>
<td>24.0</td>
</tr>
</tbody>
</table>

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**KUKKIRI**

the Striker

**PIKARI**

the Sparker

**KIRARI8**

the Flasher

**KIRARI36**

the Flasher

Take me out anytime!
**Multi Coat (MC)**

Multi Coat

One of the hi-grade coat for anti-reflection. Its multi layer suppresses excessive reflection and enables filter to perform its own function most effectively.

- The Rate of Spectrum Reflection:

<table>
<thead>
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<th>Value</th>
<th>Wavelength</th>
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<tr>
<td>less than 1%</td>
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<tr>
<td>less than 2.5%</td>
<td>420nm to 655nm</td>
</tr>
<tr>
<td>less than 3%</td>
<td>650nm to 670nm</td>
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</table>

* at the angle of incidence: 0°

**DHG Coat**

DHG Coat

Specially designed for digital cameras. The original plural layers restrain reflection to the limit. The combination of the DHG coat and the carbon processing on the outer rim of filter glass maximize the lens performance of any digital equipment.

- The Rate of Spectrum Reflection:

<table>
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<tr>
<th>Value</th>
<th>Wavelength</th>
</tr>
</thead>
<tbody>
<tr>
<td>less than 0.5%</td>
<td>430nm to 680nm</td>
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</tbody>
</table>

* at the angle of incidence: 0°

**Dynamic Coat**

Dynamic Coat

So called "Non-Reflection Coat", having ultra-low anti-reflection rate. The original plural layers suppresses reflection to the limit. A ultra-superior coat developed by MARUMI.

- The Rate of Spectrum Reflection:

<table>
<thead>
<tr>
<th>Value</th>
<th>Wavelength</th>
</tr>
</thead>
<tbody>
<tr>
<td>less than 0.5%</td>
<td>430nm to 660nm</td>
</tr>
</tbody>
</table>

* at the angle of incidence: 0°
## Water Proof Coat

An original water repellent coat designed by MARUMI. It repels moisture, make it turn in water drops in a moment and let them fall down. Quite easy to wipe out glass surface.

Recommendable as hi-grade filters without stains and scratches on their glass surface.

### Water Proof Coat-UV

### Water Proof Coat-1B
The Skylight filter featuring Water Proof Coating. The Water Proof Coat-1B is a double coated high performance Skylight Filter, does adjust color balance in fine weather. Suitable for portrait shooting outside.

### Water Proof Coat-N
A protection filter with an ultra thin frame. The Water Proof Coat-N is a double coated high grade normal (colorless) filter. Recommended for shooting with reversal films. And also suitable for shooting with wide angle lenses. The "Water Proof Coat" protects lens against stains and scratches. Easy to care.

### Water Proof Coat UV
The "Water Proof" coated circular polarizer with front thread. Stain and scratch proof for easy maintenance. Due to its ultra thin frame the Water Proof C-PL covers from wide to tele shooting without vignette. Polar foils are combined by MARUMI's high quality bonding technology.

### Line Up:

<table>
<thead>
<tr>
<th>Diameter</th>
<th>40.5</th>
<th>43</th>
<th>46</th>
<th>48</th>
<th>49</th>
<th>52</th>
<th>55</th>
<th>56</th>
<th>62</th>
<th>67</th>
<th>72</th>
<th>77</th>
<th>82mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waterproof Coat-UV/1B/N</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
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</tr>
<tr>
<td>Waterproof Coat C-PL</td>
<td>●</td>
<td>●</td>
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