# MINOLTA COLOR FILTER KIT

## for Minolta-16

<table>
<thead>
<tr>
<th>Filter</th>
<th>Film Used</th>
<th>Source of Light</th>
<th>Convention Temperature</th>
<th>Ability of Color</th>
<th>Uses</th>
<th>Filter Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skylight IA</td>
<td>DAYLIGHT TYPE</td>
<td>Sunshine</td>
<td>6500° → 6000°K</td>
<td>It absorbs ultra violet ray. For landscapes shadow, cloudy, sunny snow scenarios or rainy scenes, a bright and clear result can be obtained preventing a bluish tone.</td>
<td>1.1 X</td>
<td></td>
</tr>
<tr>
<td>Blue # 80A</td>
<td>DAYLIGHT TYPE</td>
<td>Flood lamp</td>
<td>3200° → 6000°K</td>
<td>As color temperature of flood lamp is low, a reddish tone appears on picture used daylight-type film. By this reason, it is necessary to change to color temperature to suit to daylight-type film and give a correct color balance. Use this filter in case of flash photography using daylight-type film.</td>
<td>3.2 X</td>
<td></td>
</tr>
<tr>
<td># 81 A</td>
<td>DAYLIGHT TYPE</td>
<td>Cloudy</td>
<td>7150° → 6000°K</td>
<td>As color temperature is high in cloudy day and picture becomes bluish, use this filter to let down this high color temperature and prevent a bluish tone.</td>
<td>1.3 X</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Moodle bulb</td>
<td>3500° → 3200°K</td>
<td>In case of using flash or reflector spot light, a bluish tone will be eliminated by using this filter.</td>
<td>1.3 X</td>
<td></td>
</tr>
<tr>
<td># 85 C</td>
<td>TYPE F</td>
<td>Sunshine</td>
<td>6000° → 3800°K</td>
<td>As Type F film (Kodachrome Type F) is film for flash photography. To use this filter prevents a bluish tone on picture in case of using this film under sunlight. Furthermore, in case of using tungsten type film (ab. 3200° → 3400°K) under sunlight, same effect will be obtained by using this filter.</td>
<td>1.5 X</td>
<td></td>
</tr>
</tbody>
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CHIYODA KOGAKU SEIKO K.K.

Printed in Japan
MINOLTA FILTER KIT
for Minolta-16

Superiority of Minolta Filters:
The filter when fitted in front of a camera lens functions to absorb its objective wavelength of light and lets others pass through almost 100% with the aim of obtaining nearly similar effects as seen with the naked eye or, to secure other special depictions aimed at.

However simultaneously it is very important that the filter should not cause the lens to get out of focus. To attain this object a special material glass is used for Minolta filters which is specially made and heat treated in order to eliminate any distortion or strains and thus to make it to integrate of its absorbility. Also it is strictly tested with a spectroscope and each piece is fully examined for its evenness of surface by means of auto-collimation. Therefore it is highly recommended for safe use.

The Minolta Filter Kit consists of 4 filters: U.V. Y48 for black & white films, and 81A, 80A for color films.

Their uses are as follows.

<table>
<thead>
<tr>
<th>Filters</th>
<th>Mark</th>
<th>Color</th>
<th>Uses</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>UV</td>
<td>Transparent</td>
<td>To cut through haze and make clear negatives. For indoor subjects and distant views generally.</td>
</tr>
<tr>
<td></td>
<td>Y48</td>
<td>Medium</td>
<td>Ultra violet ray, violet ray and a part of blue rays are absorbed. To darken light blues so that clouds are accentuated. Also for sunsets, snows and other bright subjects. Flowers in red and yellow colors are taken clearly.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Filters</th>
<th>Film Used</th>
<th>Conversion Ability of color temperature</th>
<th>Uses</th>
</tr>
</thead>
<tbody>
<tr>
<td>#81A</td>
<td>Outdoor: Daylight type (6000°K)</td>
<td>6800°→5000°K</td>
<td>(Warming) Used for Anscochrome, Kodachrome, Ektachrome and Kodacolor Daylight type films with electronic flash light (6000°K). Or for use outdoors with those Daylight type color films. Reduces bluish haze in daylight scenes. Open shade and cloudy days, sunset snow scenes, mountain and aerial photography. (Equivalent to effects of Skylight LA Filter.)</td>
</tr>
<tr>
<td></td>
<td>Indoor: Tungsten light type (3200°K)</td>
<td>3400°→3200°K</td>
<td>(Warming) For use Tungsten type color films (3200°K) with photofloods (3400°K) by reducing blue content of the light output to 2000°K.</td>
</tr>
<tr>
<td>#80A</td>
<td>Outdoor: Daylight type (6000°K)</td>
<td>3200°→6000°K</td>
<td>(Cooling) For use Anscochrome Daylight type and Kodachrome Daylight type films indoors with photofloods by reducing the red content of the floods.</td>
</tr>
</tbody>
</table>

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## MINOLTA COLOR FILTER BANK

### Superiority of Minolta Filters:
The filter when fitted in front of a camera lens functions to absorb its objective wavelength of light and lets others pass through almost 100% with the aim of obtaining nearly similar effects as seen with the naked eye or, to secure other special depictions aimed at.

However simultaneously it is very important that the filter should not cause the lens to get out of focus. To attain this object a special material glass is used for Minolta Filters which is specially made and heat treated in order to eliminate any distortion or strains and this to make it to integrate of its absorbility. Also it is strictly tested with a spectroscope and each piece is fully examined for its evenness of surface by means of autocollimation. Therefore it is highly recommended for safe use.

The Minolta color filter bank consists of 3 filters: 80A, 81B, and 1A. They are specially made for your Minolta-16 (II) camera.

<table>
<thead>
<tr>
<th>Filter</th>
<th>Film used</th>
<th>Uses</th>
<th>Filter Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>#80A</td>
<td>Daylight type</td>
<td>Permits the use of Anscochrome daylight type and Kodachrome daylight type film indoors with photofloods by reducing the red contents of the floods.</td>
<td>3.2X</td>
</tr>
<tr>
<td></td>
<td>Color films</td>
<td></td>
<td></td>
</tr>
<tr>
<td>#81B</td>
<td>Daylight type</td>
<td>This filter should be used on the cloudy day, it reduce the bluish tone.</td>
<td>1.3X</td>
</tr>
<tr>
<td></td>
<td>Color films</td>
<td></td>
<td></td>
</tr>
<tr>
<td>#1 A</td>
<td>Daylight type</td>
<td>For all daylight color films. Reduces excess blue and add warmth to scene. Ideal for mountain, aerial and other open sight.</td>
<td>1.1X</td>
</tr>
<tr>
<td></td>
<td>Color films</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

MINOLTA CAMERA CO., LTD.

Printed in Japan
The MINOLTA 16-P is a very small camera. It is about the size of a pack of cigarettes and can be carried around in your pocket or handbag. It is a handy camera that can be taken anywhere and be ready in an instant to take the picture you want.

The MINOLTA 16-P can be used for taking not only black and white pictures but also for color slides. It can be used in the sunny outdoors or indoors under varying light conditions. It is the camera for everybody, at work, at play, dining on the camera or just to livens up the party.

Before you start taking pictures, please read this guide. It will take only a little time but it will give you a number of hints...

Contents

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Your MINOLTA 18 P is very simple to use. The most important thing, however, is to be familiar with the various parts of your camera.
1. Loading the camera

This is the film cassette. It protects the film before and after and during photography. Films for the MINOLTA 112P are used in its own film cassette.

Keep close (12) in direction of arrow so that cover can be opened all the way.

Deep into film magazine. It is advisable to do this in the shade.

(Note) When the cover of the film cassette does not fit in right, it is a sign that it is not in place. Turn the R. winder (13) with pressing the film cassette slightly, the film cassette will fall into place.

Close film door.

2. Set the film speed indicator dial.

Turn the film speed indicator dial by turning the disk with the thumb and set the film speed index number to the small window (3).

The film speed index number (ASA or DIN) are given on the film box or the instruction sheet which comes with each roll of film. Once this number is set, you do not need to touch this dial, as long as you use the same type of film.

3. Advance film until you see 20

After loading the camera and closing the film cassette cover, you will see a S mark in the film counter window (0 marks).

Turn film winder (13) until it stops and press on rear release (1). When three and the figure "20" will appear in the window. This means that you can now take 20 shots. The number appearing in the window such as 19, 8 etc., means that you have that many shots left in your film.
1. How to get good pictures

Adjusting exposure is very easy with your MINOLTA-10. Weather factors are easy to understand. Adjust exposure to the weather conditions by Exposure setting dial (E). The figures of 1, 2, 4, 5, 8, 10, 15 indicate the aperture (f) opening.

Weather working areas are as follows: bright sun, hazy sun, cloudy bright, cloudy full cloud since rainy blue sky.

2. Releasing the shutter release

Pictures can be taken by viewing the object from the viewfinder and pressing on the shutter release at the right instant.

The lens used on the MINOLTA 16P has great depth of field so there is no need to adjust focus each time a shot is taken. One correct shot can be obtained from a distance of about 5 meters. 5000 feet. For close-up pictures, refer to p. 13.

What to do after taking 20 Pictures

When "G" is indicated in the film counter window, it means that all 20 frames have been taken. After taking the last picture, wind the dial until the mark "D" appears. Then the film counter will not advance any more. Open the film magazine compartment and remove film cassette. Wrap film in black paper.

Films for the MINOLTA-16P

The following films are sold on the market as films especially made for the MINOLTA-16P.

Black and white films:

Kodak Tri-X  ASA 200
Kodak Plus X  ASA 85
Kodak Panaline X  ASA 25

Color films:

Kodachrome I Daylight ASA 55
Agfa Chrome Daylight ASA 52
Your MINOLTA-16P will take excellent color slides. There are paper mounts for Minolta-16 film which fit to standard 85 mm projectors. In order to get maximum effects, use the MINOLTA Mini 16 Projector and you will have hours and hours of enjoyment with your family and friends.

The Minolta Mini 16 Projector is a compact, lightweight projector of unique design. Like the tiny Minolta “Hi” which provides “big camera” performance in a miniature size, the Mini Projector is engineered to give “big projector” performance. It can unusually brilliant projected images with its short focus length of 3.5 cm. In projection rivals many 300 watt machines of much greater size. Complete with Carrier for Minolta 16 slides. In addition, necessary automatic slide changers make the Minolta Mini Projector a versatile instrument for both amateur and professionals.
How to load your own bulk film into the Minolta "16" magazine (if you so desire)

1. Cut an 18" strip of film. Wind it into a small roll with the emulsion side in. Don't touch either end with your fingers.

2. Place 36" film roll in smaller "16" magazine (2) on drum. Loop on itself as indicated on page 36. Pull the end of the film past the funnel.

3. Place over tightly over smaller chamber. All four tubes, protruding tubes, like this drawing.

4. Wind if there are around drum, making sure it rolls smoothly, place to larger chamber, spreading through 19.

5. Should now be on new large chamber end with pressure sensitive tape. Label stage.


7. Carefully unwind film 16" on teeth. Place on flat surface lined with film. Slit around and 16.

8. Carefully unwind film 16" on teeth. Place on flat surface lined with film. Slit around and 16.


IN TOTAL DARKNESS

Additional hints for advanced photographers

Close-up Lens

For close-ups, use special attachment.
No. 1 attachment is for close-ups from a distance 3 feet to 5 feet. (about 0.9 m).
No. 2 attachment is for close-ups from a distance of 1.5-2.0 feet (about 0.5 m).
These attachments are useful in photographing small animals, machinery and books.

Minolta 16 Filters

The filters bring out true tone and give you better looking pictures.

1) UV filter (ultraviolet) for daylight photography to improve distant scenes by eliminating haze effects. It is recommended to keep this filter attached on the camera for preventing the dust getting into the lens.

2) Yellow filter (148) for deeper sky tones bring out cloud effects, and for better tint rendition of bright outdoor scenes particularly on sea, snow or sand.

How to attach Close-up Lens or Filter

The bracket system is used on the MINOLTA camera. Slip in filter as shown in illustration and turn in direction of arrow.

Minolta Color Filter

There are 8 filters in the filter rack, by placing them over the lens, to obtain desired effect.

1) No. 83A filter (Exposure 1x)
2) No. 81A Filter (Exposure 1x)
3) No. 14, Skylight Filter (Exposure 1x)

N.D Filter (Exposure 0x)
Flash Photograph

Your MINOLTA-16 F has flash synchronization. It synchronizes both F-class bulb and electronic flash. Excellent pictures can be taken even in the dark places (indoors) or at night by using the flash.
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