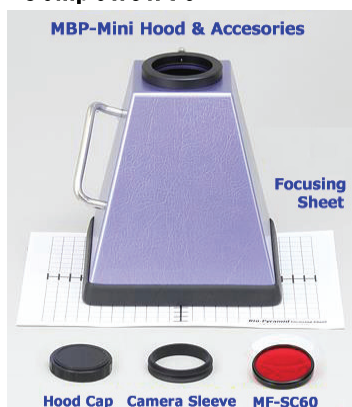


Bio-Pyramid Mini • MBP-Mini-XZ2

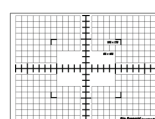
User's Manual

Standard Accessories

Components



Sharp Cut Filter
MF-SC60 - Φ52mm



Focusing Sheet
for manual focus

Digital Camera Set



XZ-2 standard set



16GB
SD Card



AC Adapter
F-3AC



Remote Cable
RM-UC1



conversion lens adapter
CLA-12



Raynox Ring
RA5255B

Installing camera and filter

Camera

Please attach in following order.

1. Attach CLA-12 to XZ-2 lens part
2. Attach RA5255B to CLA-12
3. Attach MF-SC60 to RA5255B
4. Attach Φ52mm sleeve to MF-SC60
5. Attach all of above to hood body

Filter

When replacing glass filter, please use MF-SC58A (sold separately)

* Φ52mm filter can be used.

Accessories

Please connect to camera when you use AC adapter or remote cable.

* AC adapter and remote cable cannot be used simultaneously



Next page
setting and operation instruction



2 Camera Setting (2) adjusting aperture and shutter speed ★

① Setting aperture

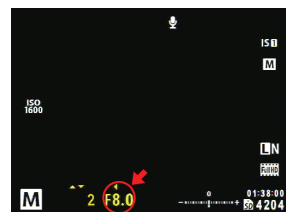
Press ▲ on sub dial and display ◀▶ mark on screen. Select an “F8.0” F value with sub dial ◀▶.

** Manual P18



① Press ▲

② adjust with ◀▶



② Setting shutter speed

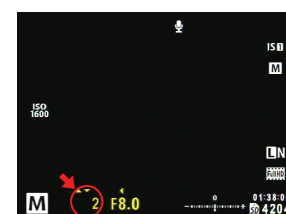
Press ▲ on sub dial and display ▲▼ mark. Select an shutter speed “2 (1/2) sec” with sub dial ◀▶. The shutter speed can be set to minimum 1/2000 sec to maximum 16 minutes [BULB].

** Manual P18



① Press ▲

② adjust with ▲▼



Memo: shutter speed can be adjusted with control ring as well

3 Camera Setting (3) ** Manual P46

① Long Exposure Noise Reduction

Press MENU button and select a “Custom Menu” with sub dial ▼ and press OK button.

Select an “Exp/Metering/ISO” with sub dial ▼ and press OK button.

Select a “Noise Reduct” with sub dial ▼, and set it ON and press OK button.

** Manual P61

② High ISO Noise Reduction

Press MENU button and select a “Custom Menu” with sub dial ▼ and press OK button.

Select an “Exp/Metering/ISO” with sub dial ▼ and press OK button.

Select a “Noise Filter” with sub dial ▼, and set it Standard and press OK button.

** Manual P61

③ Sleep Setting

Press MENU button and select a “Custom Menu” with sub dial ▼ and press OK button.

Select an “Display” with sub dial ▼ and press OK button.

Select a “Sleep” with sub dial ▼, and set it OFF and press OK button.

** Manual P60

④ Custom mode Settings (Restore above preselected settings)

Press **MENU** button and select a "Shooting Menu 1" with **sub dial** ► and press **OK** button.

Select an "Reset/C Mode Setup " with **sub dial** ▼ and press **OK** button.

From the menu, select a "Custom Mode 1" with **sub dial** ▼ , and press **OK** button.

Settings are registered to **Mode dial** "C 1"

** Manual P48



Once registered, just set mode dial to C1 from second time

Meme on battery charging and remote control

- ① AC adapter [F-3AC] and remote cable [RM-UC1] has same connector shape. Therefore, camera can be operated while using [F-3AC] but unable to use [RM-UC1] simultaneously.
- ② Please fully charge battery before connecting remote cable to camera.

4 Setting Up Transilluminator

- ① Place focusing sheet on the Transilluminator.
- ② Place Hood on the ①
 - ⇒ Place Hood on the Transilluminator after installing camera.
 - ⇒ place Hood in a way that it **covers entire emission surface**.
 - ⇒ **Use Shield mat MBP-FW if emission area is larger than hood**
- ③ Focusing sheet will become luminous once Transilluminator is turned on.

**image uses shield mat MBP-FW

Transilluminator
Sold separately



5 Camera Focus and Zoom Setting ★

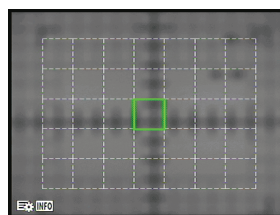
① Focusing

⇒ **Choosing focus target**

Press **sub dial** ◀ and display the AF target.

Select the **AF target** to which you want to focus on with **sub dial** and press **OK** button.

** Manual P26



⇒ **Focus Lock setting.**

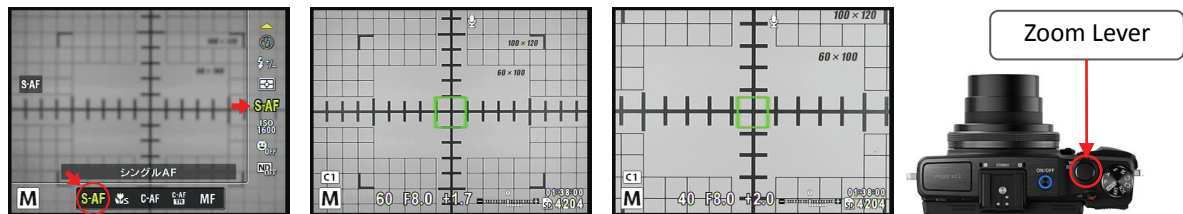
Press **OK button** and set focus with **sub dial ▲▼**.

Select "**S-AF**" with **sub dial ►**, and press **OK button**.

**** Manual P14**

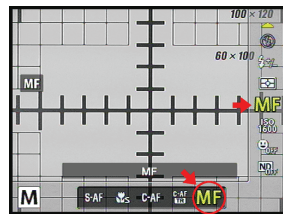
⇒ Keeping the shutter button pressed halfway, and make sure **AF target** position.

⇒ Adjust zoom with **Zoom Lever** as it requires.



② MF (Manual Focus) Setting

⇒ Switching to **MF** after procedure ① would fix focus position.



⇒ Press **OK button** and change focus setting with **sub dial ▲▼**.

Set **MF** with **sub dial ►** and press **OK button**. Readjust with **sub dial** when out of focus.

Press and hold **OK button** for a while changes adjusting of F value and manual focus.



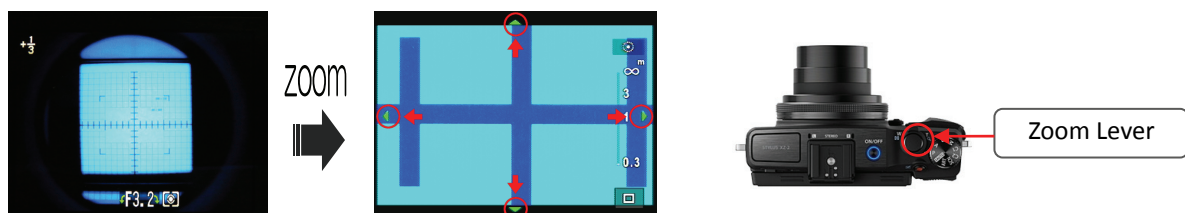
6 Gel Documentation

Turn on the Camera

⇒ Place the gel right in center and turn on the Transilluminator.

⇒ Turning the zoom lever to the right and adjusts to appropriate shooting range.

**** Manual P10**



7 Adjusting Brightness ★

Adjusting brightness with “Shutter Speed”

⇒ Shutter speed means exposure time. Slow shutter speeds let more amounts of light reaches the image sensor and thus are used to brighten images. Please adjust accordingly.

(Tip: start with rough estimates and narrow a target down for precise adjustment)

** [Manual P18](#)



8 Manual Focus

When it is difficult to focus with AF (e.g. gel is too thick, or unable to use focusing sheet), use manual focus instead.

- ① Press **OK button** and display the **Live Control**, and select the **MF** mode.
- ② Adjust focusing position with **sub dial**

** [Manual P43](#)



9 Transfer Picture data to PC.

You can transfer images to a computer by connecting the camera to the computer with the provided USB cable and software (CD-ROM).,

** [Manual P74](#)

10 Saving Image / Viewing Photograph / Erasing / Printing

- ① Captured images will be save in SD card ** [Manual P83](#)
- ② To see captured images, please select picture from [playback mode] ** [Manual P11](#)
- ③ To find images from the list (Index display) ** [Manual P11](#)
- ④ To enlarge images (Close-up playback) ** [Manual P11](#)
- ⑤ Erasing Images ** [Manual P12](#)
- ⑥ Printing Images ** [Manual P70](#)

Other settings ... Please refer [XZ-2 Instruction manual](#) for detail.

The guide is one of the standard settings for documentation and for reference purpose only.

Please adjust details in accordance with your particular observing environment.

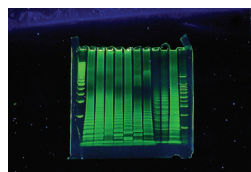
White Balance – When you shoot with color, please adjust white balance in accordance with color tone of light source. You will be able to capture image without any color bias. ** [Manual P38](#)

Image Size – Setting image (pixel) size. Smaller data (pixel) size is easy to handle.
Large data (pixel) size is preferable for printing and enlarging. ** [Manual P62](#)

Date – Able to verify captured date. ** [Manual P28](#)

Photo Printer *sold separately - Epson Picture Mate PM225 etc.

Able to print images in just 3 easy steps. **[manual P71](#)



*operation may vary depending on the model. Please refer to manual of your printer model

Filters:

Sharp-cut filters cut excitation wave length and transmit only emission wavelength. MF-SC60 (RED) cuts wavelength below 600nm. Please use MF-SC60 for EtBr, and please use MF-SC56A (sold separately) for such reagent as SYBR Green.



Bio-Pyramid Mini : Specification	
◆ Maximum shooting area	167mm × 147mm (= interior dimension) * May vary, depends on the camera.
◆ Shooting range Include φ52mm sleeve With super mount	203mm 235mm ★ Please select the camera that can be focused to shooting area within these ranges.
◆ Filter Sharp Cut filter	Use φ52mm filter
◆ Size	W187 × D167mm (= Hood External Dimensions) x H 203mm (include camera mounting part) x H 315mm (include super-mount)
◆ Weight Body/Super-mount	500g / 184g