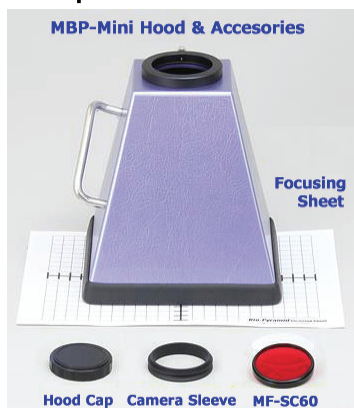


# Bio-Pyramid Mini • MBP-Mini

## User's Manual

### Standard Accessories

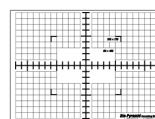
#### Components



camera sleeve  
( $\Phi 52\text{mm}$ ) is built-in.



Sharp Cut Filter  
MF-SC60 -  $\Phi 52\text{mm}$



Focusing Sheet  
for manual focus



Digital camera  $\leftrightarrow \Phi 52\text{mm}$   
Connecting ring adapter  
(for compatible  
models only)

Install a variety of cameras to  $\Phi 52\text{mm}$  sleeve with designated Ring-adapters. If camera is incompatible with any ring-adapters, please try Universal Super Mount (\*sold separately)

### Installing camera and filter

#### Camera

First, attach a conversion lens adapter (sold separately) to digital camera. Second, attach a ring-adapter to conversion lens adapter.

#### Filter

Attach sharp cut filter to ring-adapter. Attach  $\Phi 52\text{mm}$  camera sleeve to sharp cut filter and set it up on the hood.

#### Universal Super Mount

First, attach camera to the super-mount and adjust the camera position. Second, attach super mount to  $\Phi 52\text{mm}$  sleeve, and set it up on the hood.



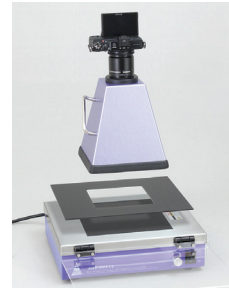
## Instruction... ★ mark is important

Set your camera manually as described below by following user's guide of each camera model.

Gel documentation takes place in a darkroom environment; therefore it is difficult to capture high quality images with full automatic. \* Select "P" (program-auto) or "M" (manual) for shooting

### ◆ Set Up

After installing camera and filter, set MBP-Mini on the UV Transilluminator in a way that lighting area is fully covered by the hood. Please use shield mat MBP-FW when lighting area is larger than MBP-Mini.



### ◆ Adjusting Zoom

Adjust the camera zoom for the shooting range you desire.

★ when zoom level is too high, it will be out of focus on close ranges.



### ★ Focusing

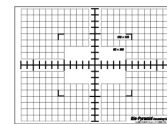
Use Macro-Shooting mode when shooting with auto-focus.

Use manual focus when it is difficult to focus with auto-focus.

(Few cameras are not equipped with manual focus) Place focusing sheet on Transilluminator when using manual focus. Fluorescence agent is applied on the focusing sheet and it would radiate when subjected to UV.



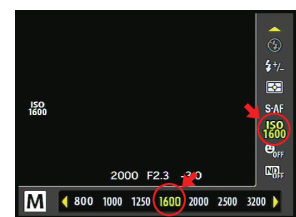
Focusing  
approx 20 cm



Focusing  
sheet for  
MF

### ★ Setting the ISO speed

High ISO speed is preferred for dark subject. However, raising the ISO speed to the Max would result in images appearing coarse and blurry. Therefore use the second or third ISO speed instead.

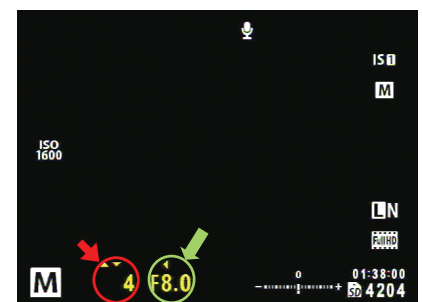


### ★ Adjusting the brightness (setting exposure)

When a camera is equipped only with auto mode, set mode dial to "P" and adjust exposure by pressing [+/-] button ( [+] for brighter, [-] for darker image). When a camera is equipped with manual mode,

1) Turn mode dial to "M". 2) Set F number to minimum. 3) set shutter speed at 1 second. If image still looks dark, set a longer shutter speed. If image is too bright set shorter shutter speed.

★ When it is too bright, background might be captured along.



shutter  
speed F number

◆ **Flash**

Turned off the flash for shooting.

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◆ **Image stabilization**

When captured image is unstable and shaky, please consider using a remote shutter or self-timer feature for shooting.

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◆ **Black and White setting**

Black and White setting is preferred for Gel documentation for it provides higher contrast and makes observation easier. Nowadays, most digital camera is equipped with B/W mode.

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◆ **Registering Shooting Setting.**

Most of the cameras that are equipped with manual mode allow users to register commonly used shooting modes and settings.

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◆ **Filter**

Accessory sharp cut filter would cut off excitation ray and transmit only emission ray.

MF-SC60 would cut off wavelength below 600nm

Such fluorescence reagent as EtBr, GelRed, and SYBR Green can be used

<b>Bio-Pyramid Mini : Specification</b>	
◆ 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