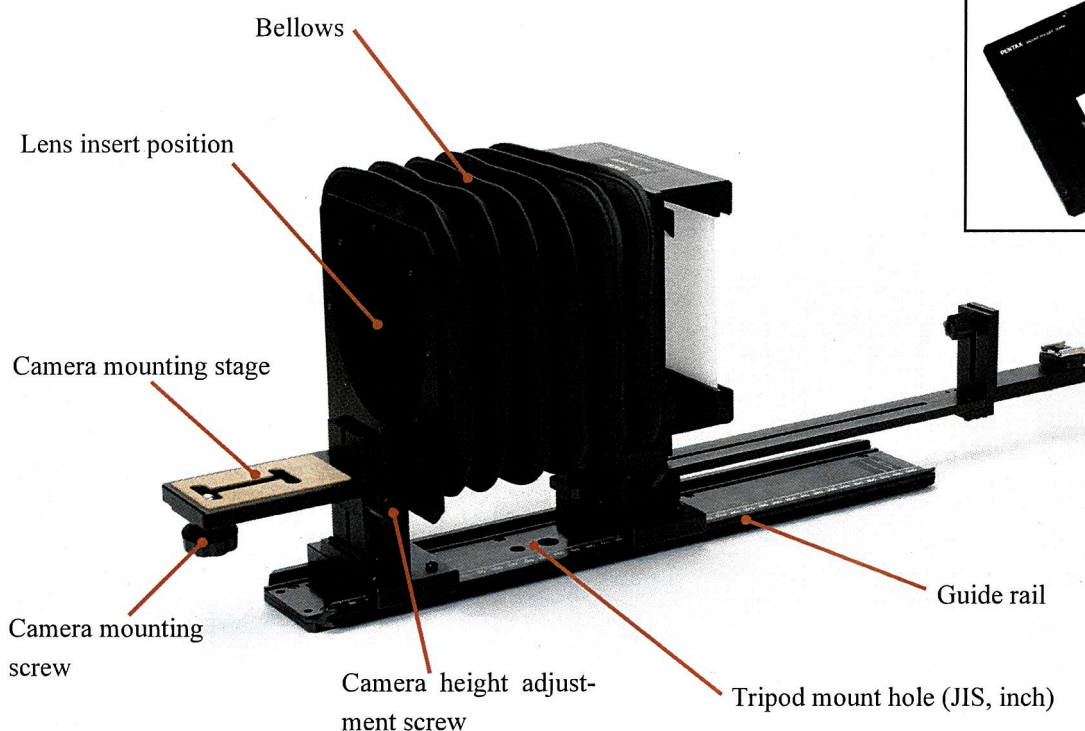
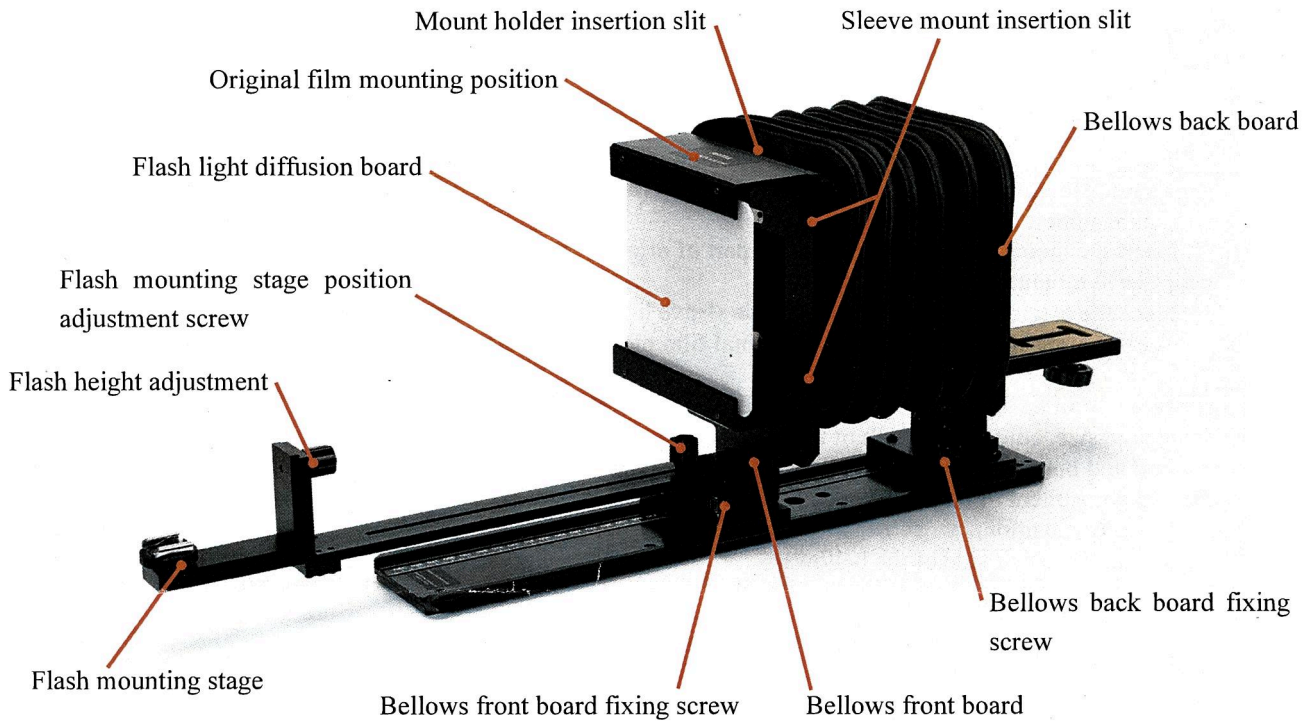


Pentax Film Duplicator is a product which you can make a digital copy of 35mm format (24x36mm) to 69 format film by using your already owned digital SLR camera and flash

The kit only includes 35mm format slide mount holder. For other format slide mount holder and sleeve holder, please use optional accessory.

Functions of the



How to use

1. Mount the camera

Set the camera to the camera mounting stage and lock it with a screw. When you set the camera, be careful to adjust the optical axis of lens to come to the center of the lens mount position placed on bellows back board.

*After adjusting the height of the camera, screw the camera height adjustment tightly.

2. Connect the camera and flash with the cable

By connecting the PENTAX DSLR and AF540FGZII, we will use hot shoe adapter FG, hot shoe adapter F and extension cord F5P. For connection, please see the operating manual of camera and flash.

*When you are using wireless compatible camera and flash, you are not necessary to use the cord but please confirm that flash is under control before using.

*When you are using camera built-in flash for wireless control, please be aware the light will not come around the bellows.

3. Mount the flash

Set the flash on the accessory shoe of the mounting stage after the flash connection with the camera is confirmed. Please adjust the center of the flash light to come to the center of the flash light diffusion board by using the flash height adjustment.

4. Set the original film on the mount holder and inert to the film duplicator

Using slide mount:

Insert the mount holder from the upper part of original film mounting position

Using sleeve mount:

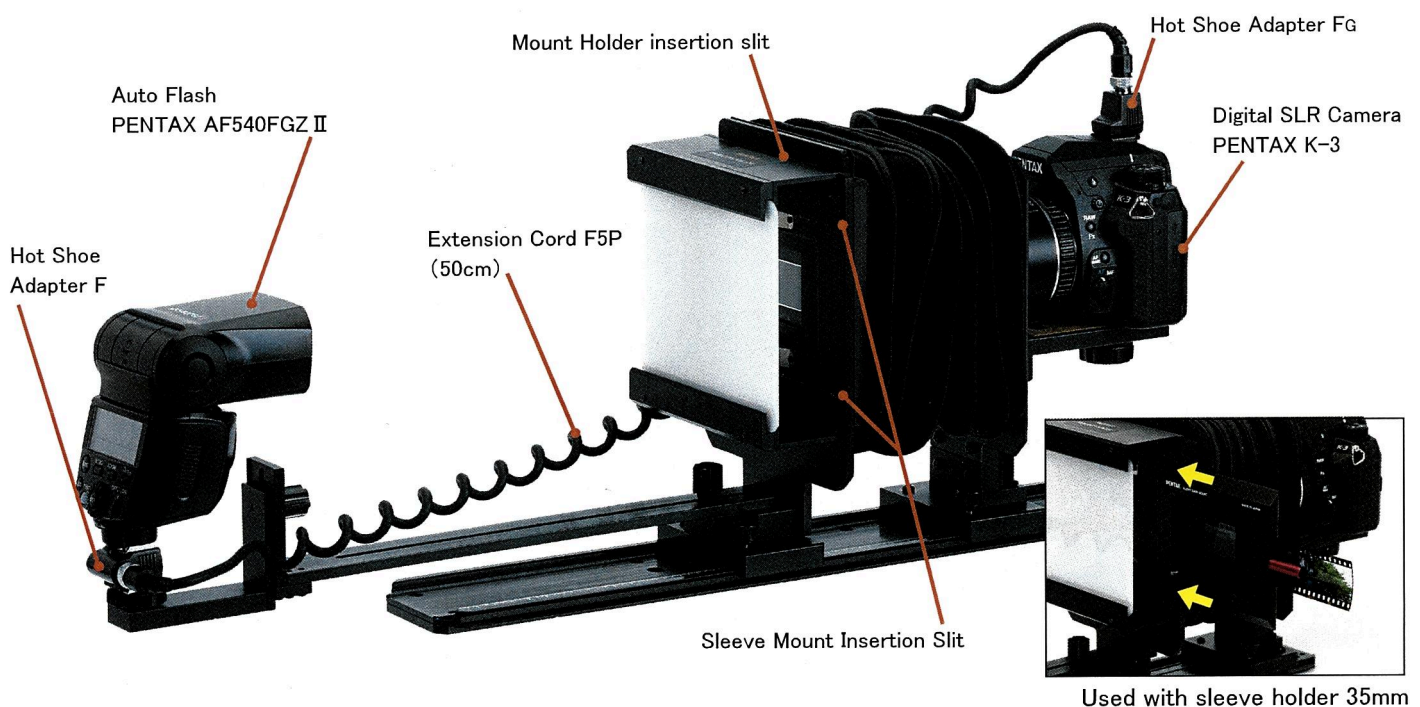
Place the original film which is set to the sleeve holder to sleeve mount. Set the sleeve holder from the side part of original film mounting position..

5. Adjust the position of bellows front board and bellows back board

To decide the size, adjust the length of the bellows. To adjust the length of the bellows, adjust the position of bellows front board and bellows back board. When you adjust, continuously in-focus to come up with the appropriate position.

*After the adjustment of bellows front and back board is done, please screw it tight to fix the position.

*You can fix the either side of the bellows.



Shooting

After confirming the power of flash, shoot after you check the focus.

*As it becomes close up copy shooting, we recommend you will use a shooting mode which you can manually change the aperture

*We recommend you to use the flash mode which you can change at camera side, such as P-TTL flash mode

*Depending on the image of your original film, exposure might not match. Use exposure compensation or bracket shooting mode to adjust the exposure.

*To compensate the color of the image, use a image editing soft..

Indication for shooting

Camera	Focal length of the lens used	Type of Original Film			
		35mm format	645 format	65 format	69 format
APS-C (PENTAX K-3 etc)	35mm	155mm	185mm	210mm	215mm
	50mm	210mm	250mm	290mm	295mm
	100mm	345mm	435mm	-	-
PENTAX 645D/ 645Z	120mm	395mm	415mm	465mm	485mm

Distance from the camera sensor to the original film

For Using the Equipment Safely

We have paid close attention to the safety of this equipment. When using this equipment, we request your special attention regarding items marked with the following symbols.



Warning

This symbol indicates that ignoring this item could cause serious personal injuries



Caution

This symbol indicates that ignoring this item could cause minor or medium personal injuries, or loss of property.



Warning

- >Do not disassemble or modify the equipment. It can be cause of failure
- >For this product flash is used as light source, flash will face to the photographer. Be aware not to see the flash light directly.
- >This product can be fixed on the tripod, Only use the large-size tripod, or it might cause injury or failure by turn over or breakdown.



Caution

- >Do not give strong shock, drop or knock down. Can become cause for failure.
- >Tightly screw the fixing and adjusting screw. When it is loose, you might get injured accidentally or equipment damaged.

Care to be Taken During Handling

>Do not clean the equipment with organic solvents such as thinner, alcohol, and benzene.

>Do not store the equipment at poorly-ventilated space, car, or with preservatives or chemicals.

>Storage in high temperatures and high humidity can cause mold to grow on the equipment. Store it in a dry and well-ventilated place.

Feature

Compatible camera:

Digital SLR camera with interchangeable lens (High resolution camera recommended)

Recommended camera: K-3, 645Z etc.

*When distance from camera bottom surface to optical axis is more than 95mm cannot be used.

Compatible lens:

With high resolution close-up lens (macro lens recommended)

Recommended lens

With K-3 HD PENTAX-DA 35mm F2.8 Macro Limited
 smc PENTAX-D FA Macro 50mm F2.8
 smc PENTAX- D FA Macro 100MM F2.8 WR etc

With 645Z smc PENTAX-FA645 Macro 120mm F4

*Lens which diameter is over 90mm cannot be used.

Compatible Lighting:

Recommended model

PENTAX AF540FGZ II

PENTAX AF360FGZ II

PENTAX AF200FG

Bellows maximum length : approx. 328mm

Maximum length during usage: approx. 900mm

Dimensions: approx. 530mm (length) x 165mm (width) x 230mm (height)

Weight: approx 2,200g

Attached accessory: Mount holder 35mm (For 35mm slide mount)

Optional Accessories:

Mount holder 645/66 (645 format, 66 format compatible with slide mount)

Mount holder 67/69 (67 format, 69 format compatible with slide mount)

Sleeve base mount (Used to insert the sleeve holder to original film mounting position)

Sleeve holder 35mm (for 35mm format sleeve)

Sleeve holder 645 (for 645 format sleeve)

Sleeve holder 66/67/69 (compatible with 66 format, 67 format and 69 format)

