

**Please read these instructions for updating the firmware carefully.
You will find the reference to the update file at the end of the License Agreement**

RICOH IMAGING COMPANY, LTD. wishes to announce the release of Firmware Update Software Version 2.30 for PENTAX K-1

*Firmware in this document is the software that runs inside digital cameras.

Changes to V2.30 / 15.06.23

[Enhanced features]

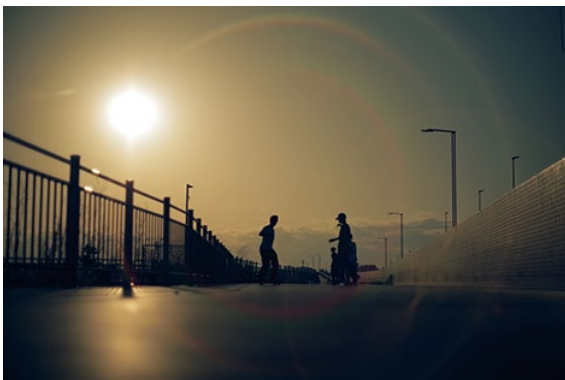
- **Added custom image Special Edition [Gold].**

By upgrading PENTAX K-1 (ver.2.30), the following function is added.

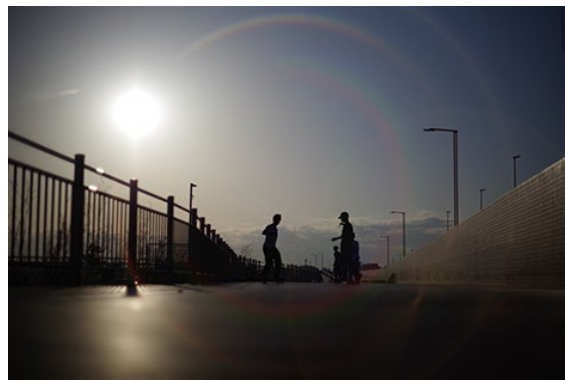
“Gold” - A new Custom Image mode

This firmware adds the new Gold Custom Image mode to your camera. With scenes accentuated by light, this mode is designed to create gold-tinted images by applying yellow-toned finishes to brighter areas while expressing darker, shadow areas with bluish tones. Yellow tones become more intense in highlighted areas.

Custom Image mode GOLD



Custom Image mode BRIGHT

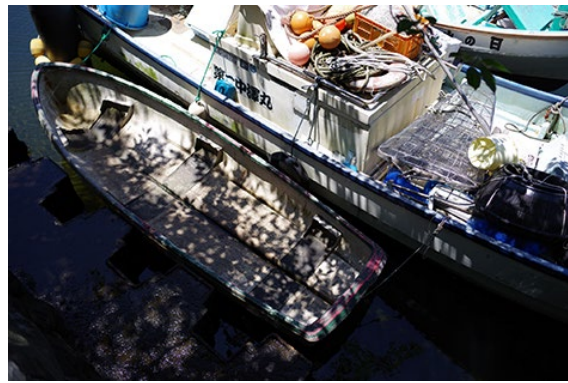


smc PENTAX-FA 50mmF1.4 Classic
(with an ND filter provided as a standard accessory)

Custom Image mode GOLD

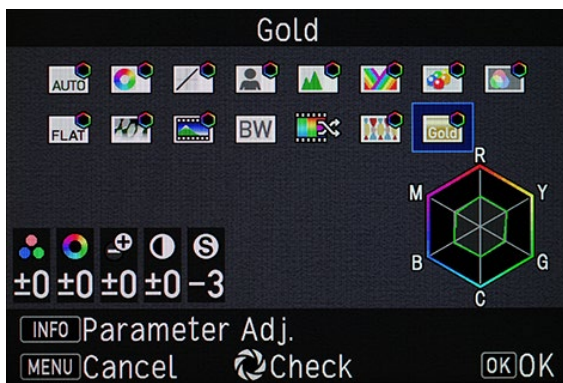


Custom Image mode BRIGHT



HD PENTAX-FA 31mmF1.8 Limited

■ Menu screen



■ Compatible lenses

This Pre-Set could be used with all lenses

[Others]

- Optimized operation when the HD PENTAX-FA 50mmF1.4 and smc PENTAX-FA 50mmF1.4 Classic are attached.
- Improved stability for general performance

* When this update is done, the contents of version 2.20 and earlier will be also updated.

When this update is done, you will not be able to restore back to version 2.20 or earlier.

History of Firmware Update

Changes to V2.20 / 09.03.23

[Enhanced features]

- **Added custom image Special Edition [HARUBENI].**

By upgrading PENTAX K-1 (ver.2.20), the following functions is added.

HARUBENI (Spring Rouge): the 4th special-edition Custom Image mode

This special-edition, season-specific Custom Image mode is designed to emphasize the pinkish colors of cherry blossoms — the hint of the arrival of spring — and the subdued blue colors of hazy spring skies.

This mode can be selected in combination with HD PENTAX-FA 77mm F1.8 Limited and HDPENTAX-DA 20-40mm F2.8-4 ED Limited lenses, both highly regarded for their soft, delicate image reproduction.

Custom Image mode HARUBENI

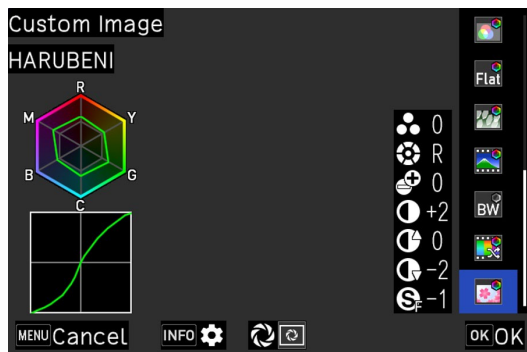


Custom Image mode BRIGHT



■ Menu screen

When a lens is mounted, the camera automatically checks for compatibility, then displays the HARUBENI-specific menu screen. (Menu screen: K-3 Mark III)



Compatible lenses:

HD PENTAX-FA 77mm F1.8 Limited
HDPENTAX-DA 20-40mm F2.8-4 ED Limited Ie

[Others]

- Improved stability for general performance

[Enhanced features]

- **Added custom image Special Edition [FUYUNO].**

By upgrading PENTAX K-1 (ver.2.10), the following functions is added.

FUYUNO (winter field): the 3rd special-edition Custom Image mode

This special-edition, season-specific Custom Image mode is designed to emphasize colors depicting the chilly air of winter, and to deliver sharp, high-key images. This mode can be selected in combination with HD PENTAX-FA 31mmF2.8 Limited and HD PENTAX-DA 35mmF2.8 Macro Limited lenses, both highly regarded for their high-resolution image reproduction.

Custom Image mode FUYUNO

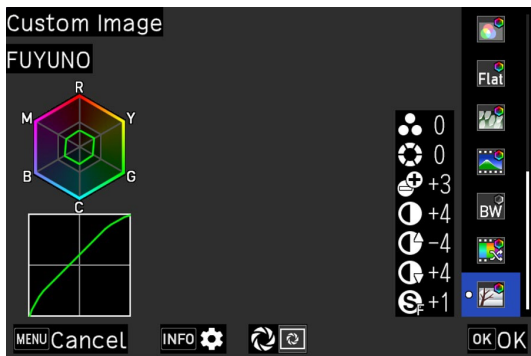


Custom Image mode BRIGHT



■ Menu screen

When a lens is mounted, the camera automatically checks for compatibility, then displays the FUYUNO-specific menu screen. (Menu screen: K-3 Mark III)



Compatible lenses:

HD PENTAX-FA 31mmF1.8 Limited
HD PENTAX-DA 35mmF2.8 Macro Limited

- **Added focus limiter function**

It can be used when attaching the following compatible lenses:
HD PENTAX-D FA MACRO 100mmF2.8ED AW

[Others]

- Improved stability for general performance

Changes to V2.00 / 18.10.22

[Enhanced features]

- **Added custom image Special Edition [KYUSHU].**

By upgrading PENTAX K-1 (ver.2.00), the following functions is added.

KYUSHU (nine autumns): a new special-edition Custom Image mode

The second season-specific Custom Image mode is KYUSHU (nine autumns). This mode is designed to partner with Limited-series lenses that can capture the diverse scenes and subjects of autumn beautifully and effortlessly. It provides distinctive color renditions, with images that express the passing of autumn and the fleeting feeling of the season.

Custom Image mode KYUSHU

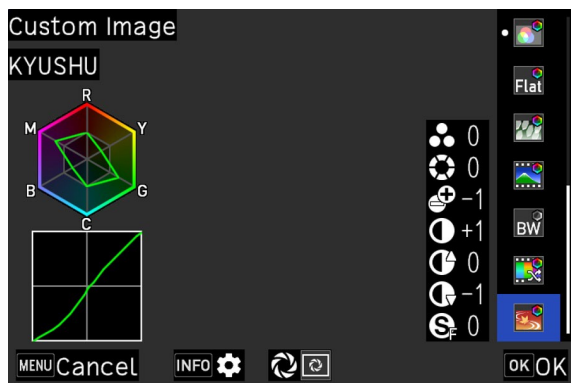


Custom Image mode BRIGHT



■ Menu screen

When a lens is mounted, the camera automatically checks for compatibility, then displays the KYUSHU -specific menu screen. (Menu screen: K-3 Mark III)



Compatible lenses:

HD PENTAX-FA 43mmF1.9 Limited

HD PENTAX-DA 21mmF3.2AL Limited

HD PENTAX-DA 40mmF2.8 Limited

HD PENTAX-DA 70mmF2.4 Limited

[Others]

- Improved stability for general performance

Changes to V1.70 / 23.06.22

[Enhanced features]

- **Added [KATEN] to Custom Image.**

New with Fw Version 1.70: Function Expand Information

By upgrading PENTAX K-1 (ver.1.70), the following functions are added.

- **KATEN (summer sky)**

This special-edition, season-specific Custom Image mode is designed to emphasize the rich blues of summer skies and depict the fine details of dazzling white clouds.

This mode can be selected only in combination with:

HD PENTAX-D FA 21mmF2.4ED Limited DC WR

HD PENTAX-DA 15mmF4ED AL Limited lenses.

Both lenses feature an ultra-wide angle of view and the latest HD (High Definition) coating, which effectively minimizes the generation of ghost images even with images captured under harsh summertime sunshine, or when the sun is in the image field. They have been selected as the best partners for the KATEN mode because they optimize the intended visual effects of the mode.

Custom Image mode KATEN

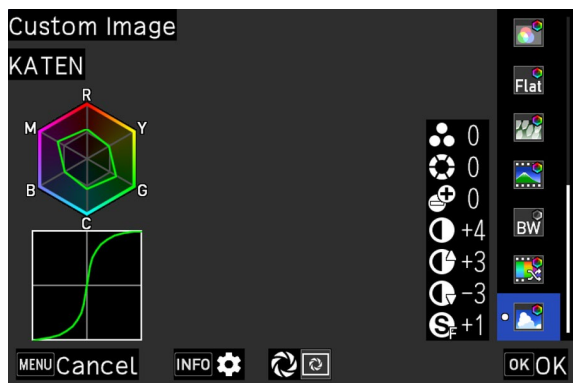


Custom Image mode BRIGHT



■ Menu screen

When a lens is mounted, the camera automatically checks for compatibility, then displays the KATEN-specific menu screen. (Menu screen: K-3 Mark III)



Changes to V1.60 / 03.03.22

[Enhanced features]

- **Added [SATOBI] to Custom Image.**

New Custom Image “SATOBI”

The Custom Image “SATOBI” has been newly added to the camera. It provides a finishing tone similar to color photos from the 60 and 70s with colors such as cyan blue, dull yellow, and faded red. The unique red expression is suitable for such as portrait photography.



[Others]

- Improved stability for general performance.

Changes to V1.55 / 20.07.21

- Optimized focus operation for new lenses
HD PENTAX-DA*16-50mmF2.8 ED PLM AW
- Improved stability for general performance.

Changes to V1.54 / 15.04.21

- Optimized focus operation for new lenses

HD PENTAX-FA 31 mm F1.8 Limited
HD PENTAX-FA 43 mm F1.9 Limited
HD PENTAX-FA 77 mm F1.8 Limited
smc PENTAX-FA 31mm F1.8AL limited
smc PENTAX-FA 43mm F1.9AL limited
smc PENTAX-FA 77mm F1.8AL limited

Changes to V1.53

- Optimized performance when attaching new lens HD PENTAX-D FA*85mmF1.4ED SDM AW.
- Improved stability for general performance

Changes to V1.52

- Optimized performance when attaching new lens HD PENTAX-DFA70-210mmF4ED SDM WR.
- Improved stability for general performance

Changes to V1.51

- Optimized performance when attaching new lens HD PENTAX-DA*11-18mmF2.8ED DC AW.

Changes to V1.50

- Optimized performance when attaching new lens HD PENTAX-D FA*50mmF1.4 SDM AW.
- Improved stability for general performance.

Changes to V1.43

- Corrected – Unstable performance may rarely occur in Movie mode or Live View status of still picture in firmware version 1.42.

Changes to V1.42

- Corrected – Unstable performance may rarely occur in firmware version 1.41.

Changes to V1.41

[Enhanced features]

- Correspond to Image Transmitter 2 version 2.3.0

[Function enhancement/Additional item when using Image Transmitter 2 version 2.3.0]

- Drive mode change function.
- White balance change function.
- Custom image change function.
- Image recording format change function.
- JPEG recording size change function
- Recording image quality change function.
- Card slot setting function.
- Live view magnification change function.
- Focus fine adjustment function for live view.
- Focus assists setting function.
- Start and stop / file transfer for movie shooting. (Live view is incompatible)

[Others]

- Improved stability for general performance.

Changes to V1.40

[Enhanced features]

- Red-lighted LCD monitor display function

The PENTAX K-1 provides a red-lighted LCD monitor display function, which prevents the pupils of the photographer's eyes from closing down after they have become accustomed to a dark environment during astrophotography.

- Bulb timer function

The bulb timer function comes in handy when photographing celestial bodies or fireworks. The PENTAX K-1 allows the photographer to expend an exposure time up to 20 minutes in Bulb mode.

[Others]

- During slow shutter speeds the PENTAX K-1 features white dot noise reduction processing. (*1)
- Overall Improved stability for general performance.

*1: When Slow Shutter Speed NR is OFF and JPEG image.

Changes to V1.30

[Enhanced features]

- The Electronic Shutter can be selected at the Menu to reduce camera shake from the mechanical shutter when shooting with Live View mode.
- Added and selectable [Square format (1:1)] size at the Crop mode.
- Addition to the current [3 frames bracketing (OFF, TYPE1, TYPE2)], the [2 frames bracketing (OFF, TYPE2)] is added and selectable for the [AA Filter Simulator bracketing]
- At the [BKT] setting, the bracketing range [± 0 (=single frame)] can be selected.

[Others]

- Improved stability for general performance.

Changes to V1.20

- Corresponded to [KAF4 lens mount] that is equipped with an electromagnetic diaphragm control system.
Enable new lens HD PENTAX-DA 55-300mmF4.5-6.3ED PLM WR RE to shoot stable by updating firmware.
- Improved stability for general performance.

Changes to V1.10

- Corresponded to IMAGE Transmitter 2 (Version2.2.0)
- Correspond to PENTAX Tethered Capture Plug-in for Adobe® Photoshop® Lightroom®(Simple Version)(Version1.1.0)
- Improved stability for general performance.

Firmware Update Software for PENTAX K-1

Name	PENTAX Firmware Update Software for PENTAX K-1
Registered name	k1_v230.zip (zip type 9.043 Kbytes)
Updated firmware file	For Windows / Mac: ZIP File
Release Date	15.06.2023
Copyright	RICOH IMAGING COMPANY, LTD.

Caution

Only PENTAX K-1 users are permitted to download the firmware update.

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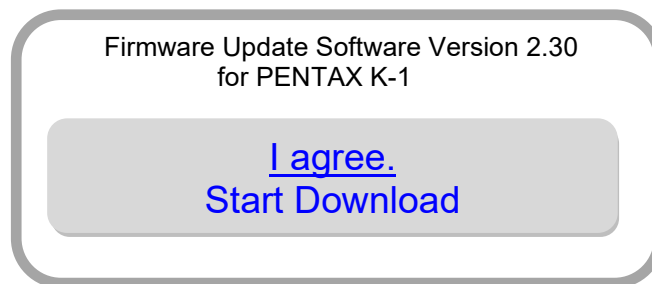
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***MAKE SURE THAT YOU USE ONLY THIS FIRMWARE UPDATE FOR YOUR PENTAX K-1 CAMERA**

How to check the firmware version

- [1] Turn ON the camera.
- [2] Press MENU button to display MENU screen.
- [3] Press the four-way controller right to display [Set-up 4] menu screen.
- [4] Select [Firmware Info/Options] in the [Set-up 4] menu then press the four-way controller right.

The firmware version for camera is displayed on the [Firmware Info/Options] screen.

Preparation of update

- Blank, formatted SD/SDHC card (32MB or more)
- USB cable 2.0)
- If you are copying the firmware update file to the SD card by connecting the camera directly to your computer.
- SD card reader or a computer with a SD card slot.
- If you are copying the firmware update file to the SD card using a memory card reader / writer.
- Fully charged battery (D-LI90)
*Be sure to use fully charged battery (D-LI90)
- If the camera turns off during updating due to lack of battery power, the camera will become inoperable. If this happens, a charge will be made for repairs even if within the warranty period.

Download the updated firmware file

- For Windows/Macintosh: k1_v230.zip 9,043 Kbytes, zip type

Updating Procedure

1. Provide a formatted SD memory card for the update software. The download file is self-extracting. The following file is extracted. Fwdc228b.bin: This is the updated firmware. Copy the above Firmware file [fwdc228b.bin] to the root directory in the SD card. If your computer does not have a card slot, you can copy the firmware update file by inserting the SD card into your camera and then connecting the camera directly to your computer.
2. Insert the D-LI90 battery into the camera and confirm the battery is full by battery level indicator then turn the camera off.
3. Insert the update SD card (prepared in step 1) into the camera (slot 1) and close card cover.
4. Turn the camera power on while pressing the MENU button.
5. "Updates the camera firmware" appears in the LCD monitor.
Ver: 1.00/1.10/1.20/1.30/1.40 /1.41/1.42/1.43/1.50/1.51/1.52/1.53/1.54/1.55/1.60 /
1.70 / 2.00 / 2.10 / 2.20 => 2.30 will be displayed.
6. Press the four-way controller to select "Start" and press the "OK" button.
7. "NOW LOADING" appears on the LCD monitor and updating starts. Please do not under any circumstances switch off the power before the update is completed.
8. When update is completed, the "COMPLETE" will be displayed at the left bottom of the LCD monitor, then turn the camera off.
9. Remove the update SD card from the camera.

*Confirm the version of firmware with above [How to check version].

[Caution]

When updating is finished, the update SD card still contains the Firmware file.

If you want to use this card to take pictures, format the card by the camera to delete firmware file first.