

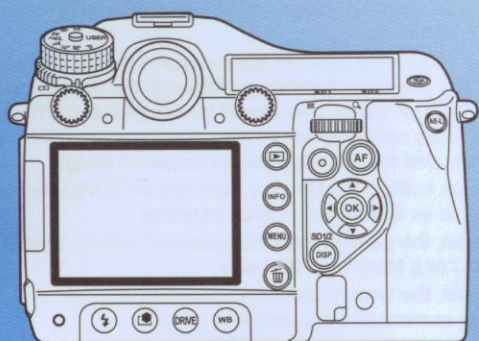
PENTAX

EN

Medium Format Digital SLR Camera

645D

Menu Reference



To ensure the best performance from your camera,
please read the operating manual before using the camera.

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Menu Descriptions and Default Settings

Rec. Mode Menu

| Menu | Item | Description | Default Setting | | Reset Setting ^{*1} | Page |
|-----------------------------------|---|--|--------------------------|-------------------------------------|-----------------------------|-------|
| M1 | Exposure Mode | Sets the exposure mode when in USER mode. (Displayed only when the mode dial is set to USER .) | P | | Yes | p.R13 |
| | SD1 Image File Format ^{*2} | Sets the image file format and data saving method for SD1 slot. | JPEG | | Yes | p.R13 |
| | SD2 Image File Format ^{*2} | Sets the image file format and data saving method for SD2 slot. | JPEG | | Yes | p.R13 |
| | JPEG Recorded Pixels ^{*2} | Sets the number of JPEG recorded pixels (pixel resolution). | L | | Yes | p.R13 |
| | JPEG Quality ^{*2} | Sets the JPEG quality (compression ratio). | ★★★ | | Yes | p.R14 |
| | ISO AUTO Adjustment ^{*2} | Sets the ISO AUTO adjustment range and how to increase the sensitivity. | On/Off | <input checked="" type="checkbox"/> | Yes | p.R14 |
| | | | Lower sensitivity limit | 200 | Yes | |
| | | | Upper sensitivity limit | 400 | Yes | |
| | | | AUTO ISO Parameters | <input checked="" type="checkbox"/> | Yes | |
| | D-Range Setting ^{*2} | Sets highlight and shadow correction. | Highlight Correction | <input type="checkbox"/> | Yes | p.R14 |
| Shadow Correction | | | Off | Yes | | |
| Lens Correction ^{*2} | Corrects lens distortion and lateral chromatic aberration. | Distortion Correction | <input type="checkbox"/> | Yes | p.R15 | |
| | | Lat-Chromatic-Ab Adj | <input type="checkbox"/> | Yes | | |
| Program Line ^{*2} | Sets the Program Line priority items. | Normal | | Yes | p.R15 | |
| Extended Bracketing ^{*2} | Sets the Extended Bracketing shooting items and bracketing amount. | Type | Off | Yes | p.R16 | |
| | | Bracketing Amount | BA±1, ±1 | Yes | | |
| HDR Capture ^{*2} | Enables shooting HDR (high dynamic range) images. | Off | | Yes | p.R16 | |
| Multi-exposure | Enables to make settings for the Multi-exposure shooting and to perform it. | Number of Shots | 2times | Yes | p.R17 | |
| | | Auto EV Adjustment | <input type="checkbox"/> | Yes | | |
| Interval Shooting | Enables to make settings for the Interval Shooting and to perform it. | Interval | 2sec. | Yes | p.R17 | |
| | | Number of Shots | 2 images | Yes | | |
| | | Start Interval | Now | Yes | | |
| | | Start Time | - | Yes | | |

| Menu | Item | Description | Default Setting | | Reset Setting*1 | Page |
|-----------------------|------------------------|---|-------------------------------------|-------------------------------------|-----------------|-------|
| ☑3 | Status Screen | Sets the auto rotation setting and display color of the status screen and control panel. | Auto Screen Rotation | <input checked="" type="checkbox"/> | Yes | p.R18 |
| | | | Display Color | 1 | Yes | |
| | Digital Preview | Sets the preview method. | Digital Preview | Off (Optical Preview) | Yes | p.R18 |
| | | | Histogram | <input type="checkbox"/> | Yes | |
| | | | Bright/Dark Area | <input type="checkbox"/> | Yes | |
| | Instant Review | Displays the image immediately after shooting. | Display Time | 1sec. | Yes | p.R18 |
| | | | Histogram | <input type="checkbox"/> | Yes | |
| | | | Bright/Dark Area | <input type="checkbox"/> | Yes | |
| | | | Enlarge Instant Review | <input type="checkbox"/> | Yes | |
| | Electronic Level Disp. | Displays the electronic level in the viewfinder and/or on the monitor. | Viewfinder | <input type="checkbox"/> | Yes | p.R19 |
| Monitor | | | <input checked="" type="checkbox"/> | Yes | | |
| ☑4 | Color Space | Sets the color space of image files. | sRGB | | Yes | p.R19 |
| | RAW File Format | Sets the RAW data file format | PEF | | Yes | p.R19 |
| | RAW Button | Sets the file format and RAW button function which are temporarily changed when the RAW button is pressed. | Cancel after 1 shot | <input checked="" type="checkbox"/> | Yes | p.R19 |
| | | | JPEG | RAW+ | Yes | |
| | | | RAW | RAW+ | Yes | |
| | | | RAW+ | RAW+ | Yes | |
| | Memory | Sets the settings to be saved when the power is turned off. | Flash Mode | <input checked="" type="checkbox"/> | Yes | p.R20 |
| | | | Drive Mode | <input checked="" type="checkbox"/> | Yes | |
| | | | White Balance | <input checked="" type="checkbox"/> | Yes | |
| | | | Sensitivity | <input checked="" type="checkbox"/> | Yes | |
| | | | EV Compensation | <input checked="" type="checkbox"/> | Yes | |
| | | | Flash Exposure Comp. | <input checked="" type="checkbox"/> | Yes | |
| | | | Auto Bracketing | <input checked="" type="checkbox"/> | Yes | |
| | | | HDR Capture | <input type="checkbox"/> | Yes | |
| Playback Info Display | | | <input checked="" type="checkbox"/> | Yes | | |
| File No. | | | <input checked="" type="checkbox"/> | Yes | | |

| Menu | Item | Description | Default Setting | | Reset Setting* ¹ | Page |
|------|------|--|---------------------------|---|-----------------------------|-------|
| CAM4 | USER | Saves the current camera settings to USER on the mode dial. | Save | – | No* ³ | p.R20 |
| | | | Check Saved USER Settings | – | – | |
| | | | Reset USER Settings | – | – | |

*1 Reset with [Reset] in the [CAM4] menu.

*2 Can also be set with the control panel.


*3 Reset with [Reset USER Settings] in the [USER] screen.

Playback Menu

| Menu | Item | Description | Default Setting | | Reset Setting* | Page |
|-------------------|-----------------------------------|---|------------------|--------------------------|----------------|-------|
| ▶1 | Slideshow | Sets the slideshow display method. | Interval | 3sec. | Yes | p.R22 |
| | | | Screen Effect | Off | Yes | |
| | | | Repeat Playback | <input type="checkbox"/> | Yes | |
| | Playback Display Method | Sets whether to display the Bright/Dark Area warning and also sets the initial magnification when enlarging images. | Bright/Dark Area | <input type="checkbox"/> | Yes | p.R22 |
| | | | Quick Zoom | Off | Yes | |
| Delete All Images | Deletes all saved images at once. | – | – | – | p.R22 | |

* Reset with [Reset] in the [▶1] menu.

Set-up Menu

| Menu | Item | Description | Default Setting | | Reset Setting ^{*1} | Page |
|----------------|-----------------|--|-------------------------------------|---|-----------------------------|-------|
| 1 | Language/言語 | Changes the display language. | *2 | | No | p.R23 |
| | Date Adjustment | Sets the date and display format. | Date Format (Date) | *2 | No | p.R23 |
| | | | Date Format (Time) | *2 | No | |
| | | | Date | *2 | No | |
| | | | Time | *2 | No | |
| | World Time | Sets and changes the hometown and destination. | Setting the Time | Hometown | Yes | p.R23 |
| | | | → Destination (City) | *3 | No | |
| | | | (DST) | *3 | No | |
| | | | 🏠 Hometown (City) | *2 | No | |
| | | (DST) | *2 | No | | |
| | Text Size | Sets the size of the text that appears on the menu screens. | *2 | | No | p.R24 |
| | Guide Display | Sets the length of the time that the guide indicators are displayed. | 3sec. | | Yes | p.R24 |
| | Beep | Switches the beep tone on/off. | Setting |  | Yes | p.R24 |
| | | | In-focus | <input checked="" type="checkbox"/> | Yes | |
| | | | AE-L | <input checked="" type="checkbox"/> | Yes | |
| | | | RAW | <input checked="" type="checkbox"/> | Yes | |
| Self-timer | | | <input checked="" type="checkbox"/> | Yes | | |
| Remote Control | | | <input checked="" type="checkbox"/> | Yes | | |
| | Mirror Up | <input checked="" type="checkbox"/> | Yes | | | |

| Menu | Item | Description | Default Setting | | Reset Setting ^{*1} | Page |
|-----------|---|---|----------------------|-------------------------------------|-----------------------------|-------|
| 2 | Brightness Level | Adjusts the brightness of the monitor. | ±0 | | Yes | p.R24 |
| | LCD Color Tuning | Adjusts the color of the monitor. | G-M axis | ±0 | Yes | p.R25 |
| | | | B-A axis | ±0 | Yes | |
| | Video Out | Sets the output format of the VIDEO terminal. | *3 | | No | p.R25 |
| | HDMI Out | Sets the output format of the HDMI terminal. | Auto | | Yes | p.R25 |
| | USB Connection | Sets the USB connection mode when connected to a computer. | MSC | | Yes | p.R25 |
| | Folder Name | Sets the method for assigning folder names. | Date | | Yes | p.R26 |
| File Name | Sets the method for assigning file names. | IMG/ _IGP | | No ^{*4} | p.R26 | |
| | | Reset File Name | – | – | | |
| 3 | Copyright Information | Sets the photographer and copyright information embedded to Exif. | Embed Copyright Data | <input type="checkbox"/> | No | p.R27 |
| | | | Photographer | – | No | |
| | | | Copyright Holder | – | No | |
| | Auto Power Off | Sets the length of the time until the camera automatically turns off. | 1min. | | Yes | p.R27 |
| Reset | Resets all settings. | – | | – | p.R28 | |
| 4 | Pixel Mapping | Maps out and corrects any defective pixels in the CCD sensor. | – | | – | p.R28 |
| | Dust Alert | Detects dust on the CCD. | – | | – | p.R28 |
| | Dust Removal | Cleans the CCD. | Dust Removal | – | – | p.R29 |
| | | | Start-up Action | <input checked="" type="checkbox"/> | Yes | |
| | Sensor Cleaning | Raises the mirror up when cleaning the CCD with a blower. | – | | – | p.R29 |
| Format | Formats an SD Memory Card. | – | | – | p.R29 | |

*1 Reset with [Reset] in the [2] menu.



*2 Depends on the initial setting.

*3 Depends on the [Hometown] setting of the initial setting.

*4 Reset with [Reset File Name] in the [File Name] screen.

Custom Setting Menu

| Menu | Item | Description | Default Setting | Reset Setting | Page |
|------|------------------------------|---|-------------------|---------------|-------|
| C1 | 1. EV Steps | Sets the adjustment steps for exposure. | 1/3 EV Steps | Yes | p.R30 |
| | 2. Sensitivity Steps | Sets the adjustment steps for sensitivity. | 1 EV Step | Yes | p.R30 |
| | 3. Expanded Sensitivity | Expands the sensitivity setting range. | Off | Yes | p.R30 |
| | 4. Meter Operating Time | Sets the exposure lock timer. | 10sec. | Yes | p.R30 |
| | 5. AE-L with AF Locked | Locks the exposure value during AF lock. | Off | Yes | p.R30 |
| | 6. Link AE to AF Point | Links the exposure and AF point during multi-segment metering. | Off | Yes | p.R30 |
| | 7. One-Push Bracketing | Shoots all frames with one release when using Exposure Bracketing. | Off | Yes | p.R30 |
| C2 | 8. Auto Bracketing Order | Sets the order for Auto Bracketing shooting. | 0 → - → + | Yes | p.R31 |
| | 9. Auto EV Compensation | Compensates automatically when the proper exposure cannot be determined. | Off | Yes | p.R31 |
| | 10. WB When Using Flash | Sets the white balance setting when using flash. | AWB | Yes | p.R31 |
| | 11. WB Adjustable Range | Sets whether to automatically adjust the white balance when the light source is specified. | Fixed | Yes | p.R31 |
| | 12. AWB in Tungsten Light | Adjusts the tungsten light color tone when [White Balance] is set to AWB . | Subtle Correction | Yes | p.R31 |
| | 13. AF Button Function | Sets the function of the AF button when being pressed. | Enable AF | Yes | p.R31 |
| | 14. AF with Press Halfway | Sets whether to use the autofocus when the shutter release button is pressed halfway. | On | Yes | p.R32 |
| C3 | 15. Superimpose AF Area | Sets whether to display the selected AF point in red in the viewfinder. | On | Yes | p.R32 |
| | 16. Number of AF Points | Sets the number of AF points when AF Point SEL is selected. | 11 AF Points | Yes | p.R32 |
| | 17. AF with Remote Control | Sets whether to use autofocus during remote control shooting. | Off | Yes | p.R32 |
| | 18. Remote Control in Bulb | Sets the function of the shutter release button when using the remote control in B mode. | Mode1 | Yes | p.R32 |
| | 19. Slow Shutter Speed NR | Sets whether to use Noise Reduction when shooting at slow shutter speeds. | On | Yes | p.R32 |
| | 20. High-ISO Noise Reduction | Sets whether to use Noise Reduction when shooting at high sensitivity. | Medium | Yes | p.R32 |
| | 21. High-ISO NR Start Level | Sets the ISO start value in High-ISO Noise Reduction. | ISO 400 | Yes | p.R32 |

| Menu | Item | Description | Default Setting | Reset Setting | Page |
|------|------------------------------|---|---|---------------|-------|
| C4 | 22. Color Temperature Steps | Sets the adjustment steps for color temperature. | Kelvin | Yes | p.R33 |
| | 23. e-dial in Program | Sets the front and rear e-dials in P mode. | Front: Tv Rear: Av | Yes | p.R33 |
| | 24. e-dial in Sv Mode | Sets the front and rear e-dials in Sv mode. | Front: Not Available Rear: Sensitivity | Yes | p.R33 |
| | 25. e-dial in Tv Mode | Sets the front and rear e-dials in Tv mode. | Front: Tv Rear: Not Available | Yes | p.R33 |
| | 26. e-dial in Av Mode | Sets the front and rear e-dials in Av mode. | Front: Not Available Rear: Av | Yes | p.R34 |
| | 27. e-dial in TAv & M Modes | Sets the front and rear e-dials in TAv and M modes. | Front: Tv Rear: Av | Yes | p.R34 |
| | 28. e-dial in B & X Modes | Sets the front and rear e-dials in B and X modes. | Front: Not Available Rear: Av | Yes | p.R34 |
| C5 | 29. Green Button in TAv & M | Selects the exposure adjustment method when the  button is pressed in TAv or M mode. | Program Line | Yes | p.R34 |
| | 30. Green Button in X Mode | Selects the exposure adjustment method when the  button is pressed in X mode. | Off | Yes | p.R34 |
| | 31. Saving Rotation Info | Sets whether to add image rotation information when shooting. | On | Yes | p.R35 |
| | 32. Auto Image Rotation | Sets whether to automatically rotate images when playing back. | On | Yes | p.R35 |
| | 33. AF Fine Adjustment | Adjusts the AF focus position. | Off | Yes* | p.R35 |
| | 34. External Flash Discharge | Sets the flash discharge method. | Off | Yes | p.R35 |
| C6 | 35. M and S Pixel Resolution | Sets the number of pixels when [JPEG Recorded Pixels] is set to M or S . | M : 32M S : 13M | Yes | p.R35 |
| | Reset Custom Functions | Resets the [C1-5] menu settings. | – | – | p.R35 |

* Reset the adjustment values with [Reset] in the [33. AF Fine Adjustment] screen.



Other Default Settings

Direct Keys

| Item | Default Setting | Reset Setting | Page |
|---------------|---------------------------|---------------|----------------------|
| Flash Mode | ⚡ (Flash On) | Yes | p.58 |
| Custom Image | Natural | Yes | p.62 |
| Drive Mode | □ (Single Frame Shooting) | Yes | p.53 |
| White Balance | AWB (Auto) | Yes | p.50 |

* Reset with [Reset] in the [**3**] menu.

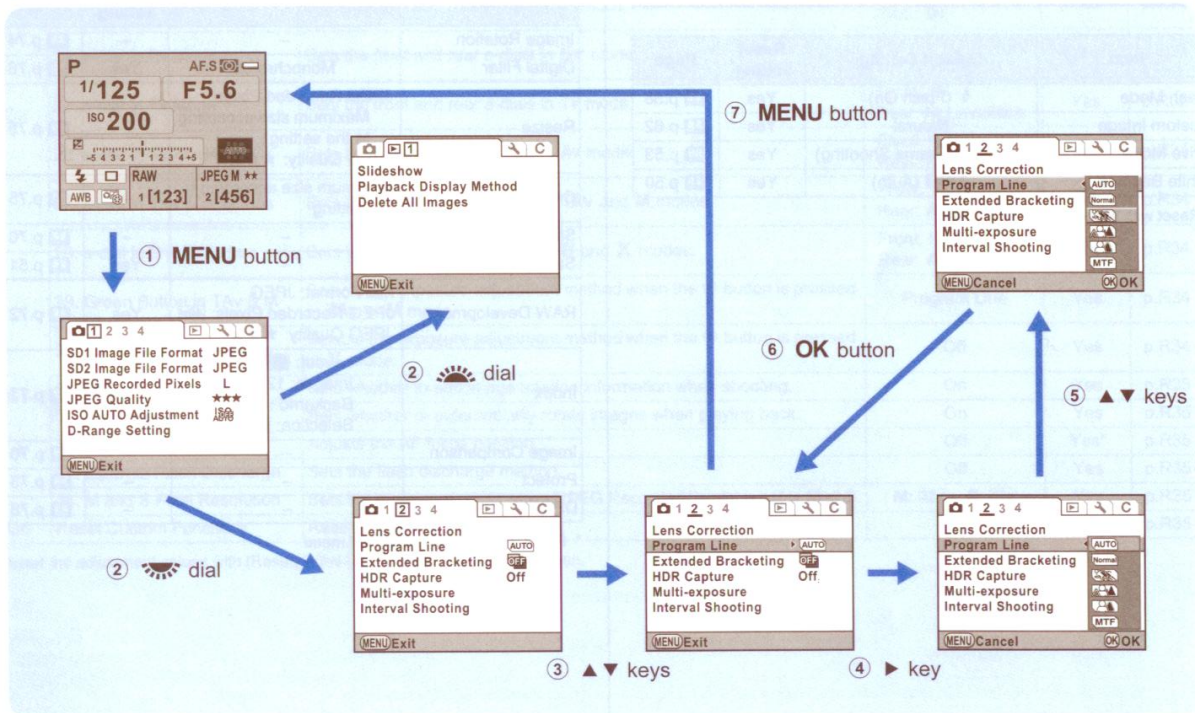
Playback Mode Palette

| Item | Default Setting | Reset Setting | Page |
|-------------------|--|---------------|----------------------|
| Image Rotation | – | – | p.74 |
| Digital Filter | Monochrome | Yes | p.76 |
| Resize | JPEG Recorded Pixels: Maximum size according to the setting JPEG Quality: ★★★ | – | p.75 |
| Cropping | Maximum size according to the setting | – | p.75 |
| Slideshow | – | – | p.70 |
| Save as Manual WB | – | Yes | p.51 |
| RAW Development | File Format: JPEG JPEG Recorded Pixels: 40M JPEG Quality: ★★★ | Yes | p.72 |
| Index | Layout:  Images: 12 Backgrnd.: White Selection:  | Yes | p.71 |
| Image Comparison | – | – | p.70 |
| Protect | – | – | p.73 |
| DPOF | – | – | p.78 |

* Reset with [Reset] in the [**3**] menu.

How to Use the Menu

Example: Setting [Program Line]




Rec. Mode Menu

Exposure Mode

Switches between the exposure modes temporarily when the mode dial is set to **USER**.

Caution

- When the camera is turned off, or the Auto Power Function is activated, the changed setting will revert to the previously-saved exposure mode.
- Refer to [USER] in the [4] menu for setting **USER**. (p.R20)

SD1/SD2 Image File Format



Set the data saving method and file format for images saved to the SD Memory Cards in the SD1 and SD2 slots.

| | |
|----------------|---|
| JPEG | Captures images in JPEG format. (default setting) |
| RAW | Captures images in RAW format. |
| RAW+ | Captures images in both RAW and JPEG format and saves them to one card. |
| RESERVE | When an SD Memory Card being used becomes full, images will be saved to the other card in the same file format. |
| OFF | The card slot is not used. |

Caution






- [RAW] and [RAW+] are not available when Extended Bracketing (p.R16) or HDR Capture (p.R16) is set. To change the file format, turn these functions off.
- Only one slot can be set to [RESERVE] or [OFF].

Memo



- When the file format is changed, the number of recordable images at that format appears at the top right of the screen.
- You can also set this by turning the  dial while pressing the **SD1** or **SD2** button. ( p.42)

JPEG Recorded Pixels

Sets the image size when the file format is set to JPEG.

| | Recorded Pixels | Pixels |
|----------------------------|---|-----------|
| L (default setting) |  | 7264×5440 |
| M |  | 6528×4896 |
| |  | 5376×4032 |
| S |  | 4224×3168 |
| |  | 3072×2304 |

Memo

- Set the recorded pixels for **M** and **S** with [35. M and S Pixel Resolution] (p.R35) in the [**C5**] menu.
- You can also set the image size by turning the  dial while pressing the **SD1** or **SD2** button. ( p.43)




JPEG Quality

Sets the quality level (compression ratio) of images when the file format is set to JPEG.

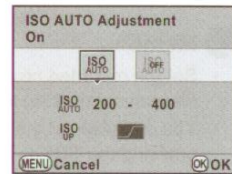
| | Quality Level | Compression Ratio |
|-----|------------------------|-------------------|
| ★★★ | Best (default setting) | 1/4.5 |
| ★★ | Better | 1/8 |
| ★ | Good | 1/16 |

Memo

- You can also set this by turning the  dial while pressing the **SD1** or **SD2** button. (p.43)

ISO AUTO Adjustment

Sets the automatic adjustment range and how to increase the sensitivity when [Sensitivity] is set to [AUTO]. Select [ISO AUTO] and then select the adjustment range and AUTO ISO parameters. (The default settings are [ISO 200 - 400] and)



AUTO ISO Parameters

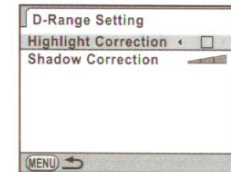
| | | |
|-------------------------------------|----------|---|
| <input type="checkbox"/> SLOW | Slow | Increases the sensitivity as little as possible |
| <input checked="" type="checkbox"/> | Standard | Standard (default setting) |
| <input type="checkbox"/> FAST | Fast | Actively increases the sensitivity |

Memo

- This function is not available when the exposure mode is set to **Sv**, **M**, **B** or **X**.
- The sensitivity range can be expanded to a range of ISO 100 to 1600 when [3. Expanded Sensitivity] (p.R30) in the [C1] menu is set to [On]. Note, however, that the following restrictions apply.
 - Setting the sensitivity range to ISO 1600 makes overexposed areas more likely to occur in the image.
 - When [Highlight Correction] is set to (On) in [D-Range Setting] (p.R14) in the [C1] menu, the minimum sensitivity is ISO 200.

D-Range Setting

Expands the dynamic range and the light level expressed by the CCD sensor and prevents bright and dark areas from occurring. Set [Highlight Correction] to or (default setting), and set [Shadow Correction] to off (default setting), low, medium or high.



Memo

- When [Highlight Correction] is set to (On), the minimum sensitivity is ISO 400. When [3. Expanded Sensitivity] (p.R30) is set to [On] in the [C1] menu, the minimum sensitivity is ISO 200.

Lens Correction



Reduces distortions and lateral chromatic aberrations occurring due to lens properties. (The default setting is (Off).)

Caution

- The Lens Correction function can only be used with a D FA or FA lens. This function is not available when using other lenses.
- The Lens Correction function is disabled when using an accessory such as an extension tube or rear converter that is attached between the camera and the lens.
- The shooting speed for continuous shooting may be slower when [Lens Correction] is set to (On).
- The effects of the Lens Correction function may be barely noticeable in some cases due to the shooting conditions or other factors.

Memo

- When [RAW] or [RAW+] is selected as the file format, the correction information is saved as a RAW file parameter.

Program Line



Select a Program Line for automatically setting the proper exposure.

| Setting | Characteristics |
|------------------------|--|
| AUTO | Camera determines the appropriate settings. |
| Normal | Basic Program Automatic Exposure (default setting) |
| Hi-speed Priority | Program Automatic Exposure that prioritizes high shutter speeds. |
| DOF Priority (deep) | Program Automatic Exposure that creates a deep depth of field. |
| DOF Priority (shallow) | Program Automatic Exposure that creates a shallow depth of field. |
| MTF Priority | Program Automatic Exposure that prioritizes the best aperture value for the attached lens. |

Memo

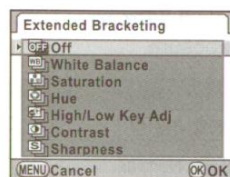
- The Program Line is available for the following exposure modes.
 - **P** or **Sv** mode
 - When [1. Program Line] is selected for [29. Green Button in TAv & M] (p.R34) in the [**C**1] menu in **TAv** or **M** mode.



Extended Bracketing



Sets the Extended Bracketing shooting items and bracketing amount.



| Item | Bracketing Amount |
|-----------------------|-------------------------------|
| Off (default setting) | — |
| White Balance | BA±1/BA±2/BA±3/GM±1/GM±2/GM±3 |
| Saturation | |
| Hue | |
| High/Low Key Adj | ±1/±2/±3/±4 |
| Contrast | |
| Sharpness | |

Caution

- When Extended Bracketing is set, the file format is always set to [JPEG] and cannot be changed. You cannot use Extended Bracketing when the file format is set to [RAW] or [RAW+].
- When Extended Bracketing is set, Interval Shooting and Multi-exposure are not available.
- Extended Bracketing and HDR Capture cannot be used at the same time. The mode set last is used.

Memo

- Exposure Bracketing and Extended Bracketing can be used at the same time.
- When Image Tone for Custom Image (p.62) is set to [Monochrome], [Saturation] and [Hue] are not available.

- When Fine Sharpness of Custom Image is in effect, Sharpness of Extended Bracketing also functions as Fine Sharpness.
- When Contrast of Custom Image is in effect, Contrast of Extended Bracketing functions in accordance with the Contrast setting of Custom Image.

HDR Capture



Select [Off] (default setting), [Standard] or [Strong] for the high dynamic range setting.

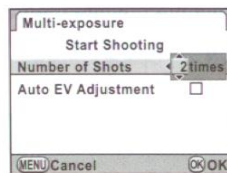
Caution

- When HDR Capture is set, the file format is always set to [JPEG] and cannot be changed. You cannot use HDR Capture when the file format is set to [RAW] or [RAW+].
- HDR Capture and Extended Bracketing cannot be used at the same time. The mode set last is used.
- When HDR Capture is set, the following functions are not available.
 - Interval Shooting
 - Multi-exposure
 - Continuous Shooting and Remote Continuous Shooting of the drive mode
 - Flash Mode (fixed to flash off)
- HDR Capture is not available when the exposure mode is set to **B** or **X** mode.
- During HDR Capture, multiple frames are combined together to create a single image, so it takes time to save an image.
- During HDR Capture, pressing the **MENU** button while an image is being saved cancels the combining process and saves the image as a standard image.

Multi-exposure



You can create a composite picture by taking multiple frames. Select the number of shots (between 2 and 9), set [Auto EV Adjustment] to (On) or (Off), and then select [Start Shooting]. (The default setting is [2times] and .)



Caution

- Multi-exposure cannot be used with Exposure Bracketing, Extended Bracketing, HDR Capture or Interval Shooting at the same time. The mode set last is used.
- The [Lens Correction] setting (p.R15) is disabled when Multi-exposure is set.

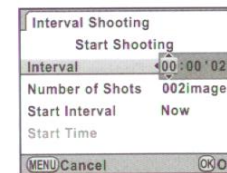
Memo

- If any of the following operations are performed while shooting, the pictures that have been already taken are saved and Multi-exposure is ended.
 - The **MENU**, **INFO**, **RAW**, **DRIVE** or **WB** button is pressed
 - The mode dial is turned
 - Exposure Bracketing is set

Interval Shooting



Pictures are taken at a set interval from a set time. Set the interval, number of shots and start time, and then select [Start Shooting].



| | | |
|------------------------|---|--|
| Interval | 2 seconds to 24 hours, 00 minutes and 00 seconds (default setting: 2 seconds) | |
| Number of Shots | Now: 2 to 999 (The default setting: 2 images) Set Time: 1 to 999 | |
| Start Interval | Now | Shooting starts immediately. (default setting) You can take two or more pictures. |
| | Set Time | Shooting starts at the set time. Select [Start Time] and set the shooting start time. |

Caution

- Interval Shooting cannot be used with Extended Bracketing, Multi-exposure or HDR Capture at the same time. The mode set last is used.
- Interval shooting is not available when the exposure mode is set to **B** or **USER** mode.
- Interval shooting is canceled when the SD Memory Card has no more available space.
- If the subject is not in focus with the focus mode set to **A.F.S** (Single mode) or if the [Interval] setting is too short and the previous image processing cannot be completed before taking the next picture, no picture may be taken.

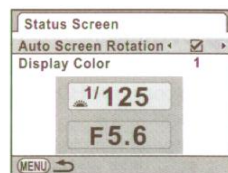


Memo

- The camera cannot be operated during interval shooting. To cancel the shooting, turn the main switch to [OFF] or turn the mode dial.
- Single Frame Shooting is selected regardless of the current drive mode setting.
- Although each shot taken is displayed with Instant Review, images cannot be enlarged or deleted.
- If the [Auto Power Off] function (p.R27) turns the camera off during interval shooting, the camera automatically turns on again when the shooting time approaches.
- It is recommended to use the AC adapter kit K-AC50 (optional) when using the interval shooting over a long period of time. (p.30)

Status Screen

Sets the auto rotation setting ((On) and (Off), default setting:) and display color (6 types, default setting: Display Color 1) of the status screen and control panel.



Digital Preview


Sets the preview method.

| | | |
|-----|-----------------|--|
| Off | Optical Preview | Using the viewfinder (default setting) |
| On | Digital Preview | Using the monitor Sets the histogram and Bright/Dark Area warning displays. |

Memo

- When Interval Shooting or Multi-exposure is set, Optical Preview is used regardless of the setting.
- Refer to the "Operating Manual" for details on preview operations. (p.61)

Instant Review

Select from [1sec.] (default setting), [3sec.], [5sec.] and [Off] for the time the image appears on the monitor immediately after being captured. Also sets the histogram, Bright/Dark Area warning and enlarged image displays. When [Enlarge Instant Review] is set to (On), you can enlarge the image with the  dial during Instant Review.

Memo

- When [Enlarge Instant Review] is set to , it takes longer to display Instant Review.

Electronic Level Display



Sets whether to display the electronic level in the viewfinder (default setting: (Off)) and/or on the monitor (default setting: (On)).

Color Space



Sets the color space of image files to sRGB or AdobeRGB. (The default setting is [sRGB].)

Memo

- File names differ depending on the color space setting as shown below. (p.R26)
- For sRGB: IMGpxxxx.JPG
- For AdobeRGB: _IGPxxxx.JPG
("xxxx" indicates the file number (a four-digit sequential number).)

RAW File Format



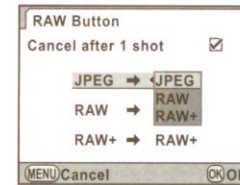
Sets the file format of RAW data.


| | |
|-----|---|
| PEF | PENTAX original RAW file format (default setting) |
| DNG | General-purpose, publicly available RAW file format designed by Adobe Systems |

RAW Button



You can temporarily change the file format of the SD Memory Card being used by simply pressing the **RAW** button. Sets the file format and the function of the **RAW** button. (The default settings are [Cancel after 1 shot] and [RAW+].)



| | |
|-------------------------------------|---|
| <input checked="" type="checkbox"/> | The recording format returns to the original file format after a picture taken. |
| <input type="checkbox"/> | The recording format returns to the original file format when any of the following operations are performed. <ul style="list-style-type: none">• the RAW button is pressed again• the , MENU or INFO button is pressed• the main switch is turned off• the mode dial is turned |

Memory



You can select which function settings to save when the camera is turned off. (The default setting is (On) for all except HDR Capture.)

- | | |
|-------------------|-------------------------------|
| • Flash Mode | • Flash Exposure Compensation |
| • Drive Mode | • Auto Bracketing |
| • White Balance | • HDR Capture |
| • Sensitivity | • Playback Info Display |
| • EV Compensation | • File No. |

Caution

- This function is not available when the mode dial is set to **USER**.

Memo

- When [Playback Info Disp.] is set to (Off), the Standard display is displayed every time the camera is turned on. (p.17)
- Set [File No.] to (On) to continue the sequential numbering for the file name even if a new folder is created. When [File No.] is set to , the file number of the first image saved to a folder returns to 0001 each time a new folder is created. In addition, the folder number is also reset when the first picture is taken with an SD Memory Card that has no saved images.
- When [Reset] (p.R28) is selected in the [3] menu, all Memory settings return to the default settings.

USER

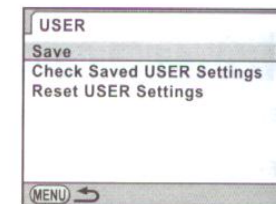


Saves the current camera settings to **USER** on the mode dial. You can easily retrieve the following saved settings when shooting.

- | | |
|---|--|
| • Exposure Mode | • Extended Bracketing (Bracketing Amount/Type) |
| • Flash Mode/Flash Exposure Compensation | • HDR Capture |
| • Drive Mode | • Lens Correction |
| • Custom Image | • Program Line |
| • Sensitivity/Sensitivity AUTO Adjustment Range | • SD1/SD2 Image File Format |
| • White Balance | • JPEG Recorded Pixels |
| • D-Range Setting | • JPEG Quality |
| • EV Compensation | • Color Space |
| • Exposure Bracketing | • RAW File Format |
| | • [C1-5] menu settings |

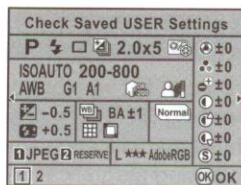
1 Make the necessary settings.

2 Select [USER] in the [4] menu, press the **▶** key and select [Save].



To check the saved settings, select [Check Saved USER Settings].

To reset the saved settings to the default settings, select [Reset USER Settings].



3 Select [Save].

The settings are saved to **USER**. To shoot with the saved settings, turn the mode dial to **USER**.

Memo

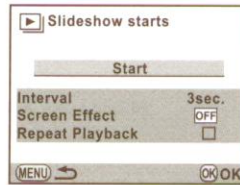
- To change the saved settings, turn the mode dial to **USER** and repeat Steps 1 to 3 above.



▶ Playback Menu

▶ Slideshow

Sets how images will be displayed during the Slideshow. Select the SD Memory Card in the SD1 or SD2 slot, set the following items and select [Start] to start slideshow playback.



| Item | Description | Setting |
|-----------------|--|---|
| Interval | Select the image display interval. | 3sec. (default setting)/5sec./10sec./30sec. |
| Screen Effect | Select the transition effect when the next image is displayed. | Off (default setting)/Fade/Wipe/Stripe |
| Repeat Playback | Set whether the slideshow will start again from the beginning after the last image is displayed. | <input type="checkbox"/> (default setting)/ <input checked="" type="checkbox"/> |

Memo

- Refer to the "Operating Manual" for details on slideshow operations. (📖 p.70)

▶ Playback Display Method

You can set whether or not to display the Bright/Dark Area warning (default setting: (Off)) in Playback mode and set the initial magnification when enlarging images. Select from the following magnification settings: [Off] (default setting), [$\times 2$] (200%), [$\times 4$] (400%), [$\times 8$] (800%), [$\times 16$] (1600%) or [$\times 32$] (3200%).

▶ Delete All Images

You can select the SD Memory Card in the SD1 or SD2 slot and delete all saved images at once.

Set-up Menu

Language/言語

You can change the language in which the menus, error messages, etc. are displayed.


This camera supports the following languages: English, French, German, Spanish, Portuguese, Italian, Dutch, Danish, Swedish, Finnish, Polish, Czech, Hungarian, Turkish, Greek, Russian, Korean, Traditional Chinese, Simplified Chinese and Japanese.

Date Adjustment

You can change the initial date and time settings. You can also set the display format.

| Display Format | |
|----------------|------------------------------|
| Date | mm/dd/yy, dd/mm/yy, yy/mm/dd |
| Time | 12h/24h |

World Time

You can display the local date and time on the monitor when traveling to a different time zone. Select  (Destination) for [Setting the Time] and select a destination city. You can select from following cities for the hometown and destination.

| World Time | |
|----------------------|-------|
| Setting the Time < → | |
| → Destination | [DST] |
| London | 15:00 |
| ↺ Hometown | |
| New York | 10:00 |
| (MENU) ← | |

| Region | City | Region | City | |
|---------------|---------------------------|-------------|----------------------|--------------|
| North America | Honolulu | Europe | Stockholm | |
| | Anchorage | | Budapest | |
| | Vancouver | | Warsaw | |
| | San Francisco | | Athens | |
| | Los Angeles | | Helsinki | |
| | Calgary | | Moscow | |
| | Denver | | Africa/ West Asia | Dakar |
| | Chicago | | | Algiers |
| | Miami | | | Johannesburg |
| | Toronto | Istanbul | | |
| | Central and South America | New York | Cairo | |
| | | Halifax | Jerusalem | |
| | | Mexico City | Nairobi | |
| Lima | | Jeddah | | |
| Santiago | | Tehran | | |
| Caracas | | Dubai | | |
| Buenos Aires | | Karachi | | |
| Europe | Sao Paulo | Kabul | | |
| | Rio de Janeiro | Male | | |
| | Lisbon | Delhi | | |
| | Madrid | Colombo | | |
| | London | Kathmandu | | |
| | Paris | Dacca | | |
| | Amsterdam | East Asia | Yangon | |
| | Milan | | Bangkok | |
| | Rome | | Kuala Lumpur | |
| | Copenhagen | | Vientiane | |
| | Berlin | | Singapore | |
| | Prague | | Phnom Penh | |

| Region | City |
|-----------|-------------|
| East Asia | Ho chi Minh |
| | Jakarta |
| | Hong Kong |
| | Beijing |
| | Shanghai |
| | Manila |
| | Taipei |
| | Seoul |
| | Tokyo |
| | Guam |

| Region | City |
|-----------|------------|
| Oceania | Perth |
| | Adelaide |
| | Sydney |
| | Noumea |
| | Wellington |
| | Auckland |
| Pago Pago | |

Memo

- Set [DST] to (On) if the destination city uses daylight saving time (DST).
- \rightarrow appears in the guide display and status screen if [Setting the Time] is set to \rightarrow (Destination). The video output mode (p.R25) switches to that of the destination city.

Text Size

You can set the size of the text that appears on the menu screens to [Standard] (normal display) or [Large] (magnified display).

Guide Display

Set the length of time that the guides are displayed on the monitor when the camera is turned on or the Capture mode is changed. Select from [3sec.] (default setting), [10sec.], [30sec.] and [Off].

Beep

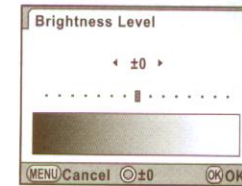
You can turn the operation beep on or off. There are six items that you can set: In-focus, AE lock, **RAW** button operation sound, self-timer, remote control and mirror up. (The default setting is (On).)

Memo

- You can turn all the beeps off by selecting for [Setting].

Brightness Level

You can select from 15 brightness levels.



LCD Color Tuning



You can adjust the color of the monitor.



Available operations

| | |
|---|--|
| ▲ ▼ keys | Adjusts the tone of the colors between green (G) and magenta (M) from among seven levels. |
| ◀ ▶ keys | Adjusts the tone of the colors between blue (B) and amber (A) from among seven levels. |
| ⊙ button | Resets the adjustment value. |
| ☀ dial | Displays a captured image in the background so you can adjust the color while viewing the image. |
| DISP button/ SD1 button/ SD2 button | Switches between the SD Memory Cards. |

Video Out



If images fail to be played back with the default video output format, change the video output setting (NTSC or PAL).

Memo

- When you set [Setting the Time] on [World Time] (p.R23) in the [↔1] menu to → (Destination), the video output setting changes to the video output format for that city.

HDMI Out



Set the output format of the HDMI terminal.

| | |
|--------|--|
| Auto | The maximum size corresponding to the AV equipment and camera is automatically selected (default setting). |
| 1080i | 1920×1080i |
| 720p | 1280×720p |
| 480p * | 720×480p |

* When [480p] is selected, HDMI output format switches between [480p] for NTSC and [576p] (720×576p) for PAL depending on the video output format setting.

Memo

- When the HDMI output format is set to [1080i] or [720p], the display may appear with a screen design that differs from that displayed on the camera.

USB Connection



Set the USB connection mode (MSC or PTP) when connecting the camera to a computer via the provided USB cable (I-USB107). (The default setting is [MSC].)

Folder Name



You can select a method for assigning the folder names for storing images.

| | |
|----------------------------------|---|
| Date (default setting) | The two digits of the [month] and [day] on which the picture was taken are assigned as the folder name in the form of [xxx_MMDD]. <ul style="list-style-type: none"> [xxx] is a sequential number from 100 to 999. [MMDD] (month and day) is displayed according to the date format set in [Date Adjustment] (p.R23) in the [1] menu. Example: [101_0125] indicates a folder with pictures taken on January 25th. |
| PENTX | The folder name is assigned in the form of [xxxPENTX]. Example: 101PENTX |

Memo

- When the number of captured images exceeds 500, images are divided into folders of 500 images each. However, in Auto Bracketing shooting, images will be stored in the same folder until shooting is completed, even if the number of images exceeds 500.

File Name



File names are assigned as follows, according to the color space setting. You can change the names of files. (The default setting is [IMG Pxxxx.JPG] and [_IG Pxxxx.JPG], where "xxxx" is the file number.)

| Color Space | File Name |
|-------------|---------------|
| sRGB | IMG Pxxxx.JPG |
| AdobeRGB | _IG Pxxxx.JPG |

- 1 Select [File Name] in the [2] menu and press the **▶** key.

The [File Name] screen appears.

- 2 Select [Change], press the **▶** key, and enter the text.

To reset a changed file name to its default setting, select [Reset File Name].



Text selection cursor



Text input cursor

Available operations

| | |
|------------------|----------------------------------|
| dial | Moves the text input cursor. |
| ▲▼◀▶ keys | Moves the text selection cursor. |
| OK button | Enters the character. |

- 3 After entering the text, move the text selection cursor to [Finish] and press the **OK** button.

The file name is changed.

Memo

- When [Color Space] is set to [sRGB], you can change [IMG] (4 characters) to the desired characters. When [Color Space] is set to [AdobeRGB], of the 4 characters you selected, the first 3 are assigned in place of [IMG].
Example: When a file name is set to [ABCDxxxx.JPG], the file is renamed to [_ABCxxxx.JPG].

Copyright Information

3

Sets the photographer information embedded in the Exif data.

1 Select [Copyright Information] in the [3] menu and press the ► key.

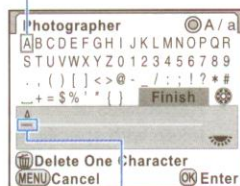
2 Select [Embed Copyright Data] and then select or .

| | |
|-------------------------------------|---|
| <input checked="" type="checkbox"/> | Embeds copyright information in the Exif. |
| <input type="checkbox"/> | Does not embed copyright information in the Exif. (default setting) |

3 Select [Photographer], press the ► key, and enter the photographer's name.

You can enter up to 32 characters.

Text selection cursor



Text input cursor

Available operations

| | |
|-----------|--|
| dial | Moves the text input cursor. |
| ▲▼◀▶ keys | Moves the text selection cursor. |
| ⊙ button | Switches between upper and lower case letters. |
| OK button | Enters the character. |
| 🗑️ button | Deletes the character. |

4 After entering the text, move the text selection cursor to [Finish] and press the OK button.

The photographer's name is saved.

Continue by selecting [Copyright Holder] and enter the text in the same manner.

Memo

- Use the provided "PENTAX Digital Camera Utility 4" software to check the Exif information.
- When [Embed Copyright Data] is set to (On), a copyright symbol (©) appears on the status screen and LCD panel.

Auto Power Off

3

You can set the camera to turn off automatically if unused after a set period of time. Select from [1min.] (default setting), [3min.], [5min.], [10min.], [30min.] or [Off].

Memo

- The Auto Power Off function does not work during slideshow playback and when connected to a computer with the USB cable.

Reset

3

Resets the settings in the menu, menu, menu, shooting functions and playback mode palette.

! Caution

- Reset function is not available when the mode dial is set to **USER**.

📎 Memo

- The **C** menu settings and [Language/言語], [Date Adjustment], the city and DST settings for [World Time], [Text Size], [Video Output] and [Copyright Information] in the menu are not reset.

Pixel Mapping

4

This maps out and corrects defective pixels in the CCD sensor.

! Caution

- Pixel mapping cannot be performed when the battery level is low. Use the AC adapter kit K-AC50 (optional) or load a fully charged battery.

Dust Alert

4

This detects dust adhering to the CCD sensor and visually displays the location of the dust. You can save the detected image and display it when performing sensor cleaning. Make the following preparations and then press the shutter release button fully.



- Attach a **D FA** or **FA (A aperture position)** lens.
- Set the focus mode on the lens to **[AF]**.

! Caution

- The exposure time may be long when using the Dust Alert function. Note that if the direction the lens is pointed changed before processing is complete, dust will not be detected properly.
- Depending on the subject conditions or temperature, dust may not be detected properly.
- The Dust Alert function cannot be used when the shutter is locked.
- The Dust Alert image can only be displayed during sensor cleaning within 30 minutes from the time the image is saved. If more than 30 minutes elapse, save a new Dust Alert image and then perform sensor cleaning.
- The saved Dust Alert image cannot be displayed in Playback mode.

📎 Memo

- Regardless of the camera settings, the Dust Alert image will be taken with specific shooting settings.
- To view the Dust Alert image at full screen display, press the **INFO** button or turn the dial while displaying the image.

Dust Removal



This removes dust adhering to the CCD sensor by applying ultrasonic vibrations to the filter on the front surface of the sensor for approximately one second. Set [Start-up Action] to (On) to turn the Dust Removal function on every time the camera is turned on. (The default setting is .)

Sensor Cleaning



Raise the mirror up and open the shutter to clean with a blower. If you use the Dust Alert function to detect dust on the sensor within 30 minutes before the sensor cleaning, the Dust Alert image appears on the monitor to enable you to check the location of dust.

Because the CCD sensor is a precision part, it is recommended that you contact PENTAX Service Center for professional cleaning. Cleaning services involve a fee.

Caution

- Do not clean the sensor when the mode dial is set to **B**.
- Do not use a spray type blower.
- Use a brush-less blower to remove dirt and dust from the CCD sensor. Using a blower with a brush may scratch the sensor. Do not wipe the sensor with a cloth.
- Sensor cleaning cannot be performed when the battery level is low. Use the AC adapter kit K-AC50 (optional) or load a fully charged battery. If the battery capacity becomes low during cleaning, a warning beep will sound. Please stop cleaning immediately.

- Do not put the tip of the blower inside the lens mount area. If the power is turned off, this could damage the shutter, CCD sensor or the mirror.

Memo

- The self-timer lamp blinks and **[CIn]** appears on the LCD panel during sensor cleaning.

Format



You can select the SD Memory Card in the SD1 or SD2 slot and format it.

Caution

- Do not remove the SD Memory Card while formatting. The card may be damaged and become unusable.
- Formatting an SD Memory Card deletes all images including protected images.



C Custom Setting Menu

1. EV Steps

C1

Sets the step interval for exposure.

| Setting | Exposure Setting Value |
|--|---|
| 1 1/3 EV Steps (default setting) | $\pm 0.3/\pm 0.7/\pm 1.0/\pm 1.3/\pm 1.7/\pm 2.0/\pm 2.3/\pm 2.7/\pm 3.0/3.3/\pm 3.7/\pm 4.0/\pm 4.3/\pm 4.7/\pm 5.0$ |
| 2 1/2 EV Steps | $\pm 0.5/\pm 1.0/\pm 1.5/\pm 2.0/\pm 2.5/\pm 3.0/\pm 3.5/\pm 4.0/\pm 4.5/5.0$ |

2. Sensitivity Steps

C1

Sets whether to adjust the sensitivity in increments of 1EV or in accordance with the EV step setting for exposure. (The default setting is [1 EV Step].)

3. Expanded Sensitivity

C1

You can expand the sensitivity range to ISO 100 to 1600. (The default setting is [Off].)

4. Meter Operating Time

C1

Select from [10sec.] (default setting), [20sec.], [30sec.] and [Exposure Lock Timer Off] for the exposure metering time. If [Exposure Lock Timer Off] is selected, metering continues until the shutter release button is pressed fully or the camera is turned off.

5. AE-L with AF Locked

C1

Exposure is locked when the focus is locked. (The default setting is [Off].)

6. Link AE to AF Point

C1

Sets whether to link the exposure and AF point in the focus area during multi-segment metering. Exposure is set in accordance with the AF point. (The default setting is [Off].)

7. One-Push Bracketing

C1

Shoots all frames with one press of the shutter release button when using Exposure Bracketing. (The default setting is [Off].)

8. Auto Bracketing Order

C2

Sets the order for Auto Bracketing shooting.

| Setting | Frames | Order |
|---------------------------------|----------|-----------------------|
| 1 0 - + (default setting) | 2 frames | 0 → -1/0 → +1 |
| | 3 frames | 0 → -1 → +1 |
| | 5 frames | 0 → -1 → +1 → -2 → +2 |
| 2 - 0 + | 2 frames | -1 → 0/0 → +1 |
| | 3 frames | -1 → 0 → +1 |
| | 5 frames | -2 → -1 → 0 → +1 → +2 |
| 3 + 0 - | 2 frames | 0 → -1/+1 → 0 |
| | 3 frames | +1 → 0 → -1 |
| | 5 frames | +2 → +1 → 0 → -1 → -2 |
| 4 0 + - | 2 frames | -1 → 0/+1 → 0 |
| | 3 frames | 0 → +1 → -1 |
| | 5 frames | 0 → +1 → -1 → +2 → -2 |

9. Auto EV Compensation

C2

Compensates automatically when the proper exposure cannot be obtained. (The default setting is [Off].)

10. WB When Using Flash

C2

Select **AWB** (default setting), [Unchanged] or [Flash] for the white balance when the flash discharges.

11. WB Adjustable Range

C2

Fine-tunes the white balance when the light source is specified.

| | | |
|---|----------------------------|---|
| 1 | Fixed (default setting) | Color temperature of the light source is fixed. |
| 2 | Auto Adjustment | Automatically performs fine-tuning. |

12. AWB in Tungsten Light

C2

Adjusts the tungsten light color tone when [White Balance] is set to **AWB**.

| | | |
|---|--|--|
| 1 | Subtle Correction (default setting) | Keeps the tungsten light color tone. |
| 2 | Strong Correction | Applies a stronger correction of the tungsten light. |

13. AF Button Function

C2

Sets the camera so that autofocus is performed when the **AF** button is pressed.

| | | |
|---|--------------------------------|---|
| 1 | Enable AF (default setting) | Autofocus is performed by using the AF button or the shutter release button. |
| 2 | Cancel AF | Pressing the shutter release button disables autofocus while the AF button is pressed. (Take your finger off the AF button to return to normal autofocus mode.) |

14. AF with Press Halfway **C2**

Autofocus is performed by pressing the shutter release button halfway. (The default setting is [On].)

15. Superimpose AF Area **C3**

The selected AF point lights red in the viewfinder. (The default setting is [On].)

16. Number of AF Points **C3**

Select the number of AF points from 11 (default setting), 5 or 3. The selected AF points are used as the focus position when the AF point switching dial is set to **SEL**.

17. AF with Remote Control **C3**

Enables autofocus with the remote control. (The default setting is [Off].)

18. Remote Control in Bulb **C3**

Sets the function of the shutter release button when using the remote control with the exposure mode set to **B**.

| | | |
|---|----------------------------|--|
| 1 | Mode1 (default setting) | Press the shutter release button on the remote control unit to start exposure, and press it again to end exposure. |
| 2 | Mode2 | Continuous exposure while the shutter release button on the remote control unit is pressed. |

19. Slow Shutter Speed NR **C3**

Sets how the Noise Reduction function works during long exposures.

| | | |
|---|-------------------------|---|
| 1 | On (default setting) | The camera determines the conditions, such as the shutter speed, sensitivity, and internal temperature, and automatically reduces noise as necessary. |
| 2 | Off | Minimal noise reduction is applied to the image. |

20. High-ISO Noise Reduction **C3**

Noise Reduction will be activated when using a high ISO sensitivity. Select [Low], [Medium] (default setting), [High] or [Off].

21. High-ISO NR Start Level **C3**

Sets at which sensitivity level the High-ISO Noise Reduction function starts to work. Select [ISO 200], [ISO 400] (default setting), [ISO 800] or [ISO 1600]. The noise reduction process starts from a sensitivity at or above the set sensitivity.


22. Color Temperature Steps





C4

Sets the step unit of the white balance color temperature to [Kelvin] or [Mired]. (The default setting is [Kelvin].)




23. e-dial in Program

C4

Sets the  and  dials when the exposure mode is **P**.

| Setting |  |  |
|---------------------|---|---|
| 1 (default setting) | Tv (Shutter Speed) | Av (Aperture) |
| 2 | Av (Aperture) | Tv (Shutter Speed) |
| 3 |  (EV Compensation) | P SHIFT (Program Shift) |
| 4 | P SHIFT (Program Shift) |  (EV Compensation) |
| 5 | – (Not Available) | – (Not Available) |





Memo

- Set the shutter speed or aperture to a value that will give a correct exposure with the relative shutter speed or aperture range of the lens being used. If the brightness changes and the shutter speed or aperture is outside the relative range, the shutter speed or aperture will blink on the status screen, LCD panel and in the viewfinder.
- Pressing the  button after adjusting the value with the  or  dial returns to Automatic Exposure.

24. e-dial in Sv Mode

C4





Sets the  and  dials when the exposure mode is **Sv**.

| Setting |  |  |
|---------------------|---|---|
| 1 (default setting) | – (Not Available) | Sensitivity |
| 2 | P SHIFT (Program Shift) | Sensitivity |
| 3 | Sensitivity | P SHIFT (Program Shift) |
| 4 |  (EV Compensation) | Sensitivity |
| 5 | Sensitivity |  (EV Compensation) |

25. e-dial in Tv Mode



C4





Sets the  and  dials when the exposure mode is **Tv**.

| Setting |  |  |
|---------------------|---|---|
| 1 (default setting) | Tv (Shutter Speed) | – (Not Available) |
| 2 | Tv (Shutter Speed) |  (EV Compensation) |
| 3 |  (EV Compensation) | Tv (Shutter Speed) |
| 4 | Tv (Shutter Speed) | Sensitivity |
| 5 | Sensitivity | Tv (Shutter Speed) |

26. e-dial in Av Mode



C4


Sets the  and  dials when the exposure mode is **Av**.

| Setting |  |  |
|---------------------|---|---|
| 1 (default setting) | – (Not Available) | Av (Aperture) |
| 2 |  (EV Compensation) | Av (Aperture) |
| 3 | Av (Aperture) |  (EV Compensation) |
| 4 | Sensitivity | Av (Aperture) |
| 5 | Av (Aperture) | Sensitivity |

27. e-dial in TAv & M Modes


C4



Sets the  and  dials when the exposure mode is **TAv** or **M**.

| Setting |  |  |
|---------------------|---|---|
| 1 (default setting) | Tv (Shutter Speed) | Av (Aperture) |
| 2 | Av (Aperture) | Tv (Shutter Speed) |

28. e-dial in B & X Modes

C4


Sets the  and  dials when the exposure mode is **B** or **X**.

| Setting |  |  |
|---------------------|---|---|
| 1 (default setting) | – (Not Available) | Av (Aperture) |
| 2 | Av (Aperture) | – (Not Available) |
| 3 | Sensitivity | Av (Aperture) |
| 4 | Av (Aperture) | Sensitivity |

29. Green Button in TAv & M

C5

Sets the function of the  button in **TAv** or **M** mode.

| Setting | | Operation |
|---------------------|--------------|--|
| 1 (default setting) | Program Line | Automatically adjusts the aperture value and shutter speed according to Program Line (p.R15). |
| 2 | Tv Shift | The aperture value is locked and the shutter speed is adjusted automatically. |
| 3 | Av Shift | The shutter speed is locked and the aperture value is adjusted automatically. |
| 4 | Off | Disables  button operation. |


Memo

- Shutter speed is adjusted to appropriate exposure according to the selected lens aperture when the lens aperture is not set to the **A** (Auto) position.

30. Green Button in X Mode

C5

Sets the function of the  button in **X** mode.

| Setting | | Operation |
|---------------------|----------|---|
| 1 (default setting) | Off | Disables  button operation. |
| 2 | Av Shift | The aperture value is adjusted automatically. |

31. Saving Rotation Info

C5

Adds image rotation information when shooting. (The default setting is [On].)

32. Auto Image Rotation

C5

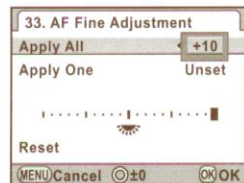
Automatically rotates the image based on the rotation information during playback. (The default setting is [On].)

33. AF Fine Adjustment

C5

Adjusts the AF focus position. (The default setting is [Off].)

To make adjustments, select [On] and then select [Apply All] or [Apply One].



| | |
|------------------|--|
| Apply All | Applies the same adjustment value to all lenses. |
| Apply One | Appears only when the lens ID is obtained. Saves and applies an adjustment value for each lens type. (Up to 20 lens types) |

Available operations

- | | |
|---------------------------------|--|
| ▶ key or dial to the right (Q) | Adjusts the focus to a closer position. |
| ◀ key or dial to the left (Q) | Adjusts the focus to a farther position. |
| ○ button | Resets the adjustment value. |

Memo

- Even when an adjustment value has been saved using [Apply One], if [Apply All] is selected, the [Apply One] setting is disabled.
- To reset a saved adjustment value, select [Reset].

34. External Flash Discharge

C5

Sets the function of the button when an external flash is connected. Select [Off] (default setting), [Modeling Flash] or [Test Flash].

35. M and S Pixel Resolution

C5

Sets the number of recorded pixels when [JPEG Recorded Pixels] is set to **M** or **S**.

| | | |
|---------------------|---------------------------|---------------------------|
| 1 (default setting) | M: 32M (6528×4896) | S: 13M (4224×3168) |
| 2 | M: 32M (6528×4896) | S: 7M (3072×2304) |
| 3 | M: 21M (5376×4032) | S: 13M (4224×3168) |
| 4 | M: 21M (5376×4032) | S: 7M (3072×2304) |

Reset Custom Functions

C6

Returns settings in [C 1-5] menu to default settings.

Memo

- The adjustment value of [33. AF Fine Adjustment] is not reset.

Appendix

Main Specifications

| | |
|--|--|
| Type | TTL autofocus, auto-exposure medium format digital SLR camera |
| Effective Pixels | Approx. 40 megapixels |
| Image Sensor | Total pixels approx. 40.01 megapixels, CCD with a primary color filter |
| Recorded Pixels | RAW: 40M (7264×5440 pixels) JPEG: 40M (7264×5440 pixels), 32M (6528×4896 pixels), 21M (5376×4032 pixels), 13M (4224×3168 pixels), 7M (3072×2304 pixels) |
| Sensitivity (Standard output sensitivity) | AUTO, ISO 200 to 1000 (Standard output sensitivity) (EV steps can be set to 1 EV, 1/3 EV or 1/2 EV), ISO 100 to 1600 is available with the Custom Function setting |
| File Format | RAW (PEF/DNG), JPEG (Exif 2.21), DCF 2.0 compliant, DPOF compatible, Print Image Matching III compatible, RAW+JPEG simultaneous capturing compatible |
| JPEG Quality | ★★★ (Best), ★★ (Better), and ★ (Good) |
| Storage Medium | SD Memory Card, SDHC Memory Card |
| Number of Shots | |

Appendix

| Recorded Pixels | File Format/ JPEG Quality | SD Memory Card Capacity | | | | | |
|-------------------------|------------------------------|-------------------------|-------------|-------------|-------------|------------|------------|
| | | 32 GB | 16 GB | 8 GB | 4 GB | 2 GB | 1 GB |
| 40M 7264×5440 | RAW (PEF) | 362 images | 180 images | 89 images | 44 images | 22 images | 11 images |
| | RAW (DNG) | 362 images | 180 images | 89 images | 44 images | 22 images | 11 images |
| 40M 7264×5440 | ★★★ | 1418 images | 706 images | 351 images | 172 images | 87 images | 43 images |
| | ★★ | 2516 images | 1254 images | 623 images | 306 images | 155 images | 76 images |
| | ★ | 5006 images | 2495 images | 1240 images | 609 images | 310 images | 152 images |
| 32M 6528×4896 | ★★★ | 1751 images | 873 images | 433 images | 213 images | 108 images | 53 images |
| | ★★ | 3107 images | 1549 images | 769 images | 378 images | 192 images | 94 images |
| | ★ | 6157 images | 3069 images | 1525 images | 749 images | 381 images | 188 images |
| 21M 5376×4032 | ★★★ | 2574 images | 1283 images | 637 images | 313 images | 159 images | 78 images |
| | ★★ | 4568 images | 2277 images | 1131 images | 556 images | 283 images | 139 images |
| | ★ | 9012 images | 4492 images | 2232 images | 1097 images | 558 images | 275 images |



| Recorded Pixels | File Format/ JPEG Quality | SD Memory Card Capacity | | | | | |
|------------------|------------------------------|-------------------------|-------------|-------------|-------------|-------------|------------|
| | | 32 GB | 16 GB | 8 GB | 4 GB | 2 GB | 1 GB |
| 13M 4224×3168 | ★★★ | 4165 images | 2076 images | 1031 images | 507 images | 258 images | 126 images |
| | ★★ | 7343 images | 3660 images | 1819 images | 893 images | 455 images | 223 images |
| | ★ | 9999 images | 7162 images | 3559 images | 1749 images | 890 images | 441 images |
| 7M 3072×2304 | ★★★ | 7805 images | 3891 images | 1933 images | 950 images | 483 images | 237 images |
| | ★★ | 9999 images | 6769 images | 3364 images | 1653 images | 841 images | 416 images |
| | ★ | 9999 images | 9999 images | 6462 images | 3176 images | 1617 images | 805 images |

* JPEG Quality (Compression ratio): ★★★ (Best) = 1/4.5, ★★ (Better) = 1/8, ★ (Good) = 1/16

* The number of storable images is an estimate. The number of storable images may vary depending on the subject, shooting conditions, shooting mode and SD Memory Card, etc.
















| | |
|--------------------------|--|
| White Balance | Auto, Daylight, Shade, Cloudy, Fluorescent Light (D: Daylight Color, N: Daylight White, W: Cool White, L: Warm White), Tungsten Light, Flash, CTE, Manual (3 types), Color Temperature (3 types), fine tuning available |
| Monitor | 3.0-inch wide viewing field TFT color LCD with approx. 921,000 dots, brightness and color adjustment functions, anti-reflective coating, hard protective glass |
| Playback Function | Single frame, multi-image display, zoom display (up to 32 times magnification, scrolling possible), image comparison, rotating, calendar display, folder display, slideshow, histogram, bright/dark area, resize, cropping, index (Thumbnail/Square/Random1/Random2/Random3/ Bubble) |
| Exposure Mode | USER , P Hyper-program, Sv Sensitivity priority, Tv Shutter priority, Av Aperture priority, TAv Shutter & Aperture priority, M Hyper-manual, B Bulb, X Flash X-sync Speed |
| Shutter | Electronically controlled vertical-run focal-plane shutter, Speed range (1) Auto 1/4000 to 30 sec. (stepless), (2) Manual 1/4000 to 30 sec. (1/2 EV steps or 1/3 EV steps), Bulb, Electromagnetic release, Shutter lock by setting main switch in OFF position |
| Lens Mount | PENTAX 645AF mount (AF coupler, lens information contacts, with power contacts) |
| Lens Used | 645A mount, 645AF mount lens |
| Autofocus System | TTL phase-matching autofocus system (SAFOX IX +), Focus lock available, Focus Mode: A.F.S (Single)/ A.F.C (Continuous), Adjustable AF point |
| Viewfinder | Trapezoid prism finder, Interchangeable Natural-Bright-Matte focusing screen, Field of view: approx. 98%, Magnification: approx. 0.62× (with D FA645 55mm F2.8 lens, Infinity), Diopter: approx. -3.5 to +2.0m ⁻¹ (per meter) |

| | |
|---|---|
| Viewfinder Indication | Focus information: ● is lit when in-focus and blinking when unable to focus, ⚡ is lit = flash ready, ⚡ is blinking = Flash should be used or charging, Shutter speed, Sensitivity, Aperture value, * = AE lock, Remaining capacity, [EV] = EV compensation/ Exposure Bracketing, [Flash] = Flash exposure compensation, [Metering] = Metering mode, EV bar, Electronic level, RAW/RAW+ , SD1/SD2 = SD1/SD2 slot recordable |
| LCD Panel Display | [Multi-exposure] = Multi-exposure, [Beep] = Beep, HDR = HDR capture, MUP = Mirror up, AWB = Auto white balance/☀ = Daylight/☁ = Shade/☁ = Cloudy/☀ D N W L = Fluorescent light/☀ = Tungsten light/⚡ = Flash/ CTE = Color temperature enhancement/ [Manual] = Manual/ K = Color temperature/± = White balance correction, Shutter speed, Aperture value, [Single] = Single frame shooting, [Continuous] = Continuous shooting, [Self-timer] = Self-timer, [Remote] = Remote control shooting, EV bar, Electronic level, [EV] = EV compensation, [Battery] = Battery exhaustion warning, [Flash] = Flash exposure compensation, RAW/RAW+ = SD1/SD2 slot image file format, L/M/S = Recorded pixels, ★★/★/★ = JPEG quality, e-dial active display, Sensitivity, © = Copyright information, INT. = Interval shooting, [Bracket] = Bracket shooting, Remaining capacity, Pc-S (mass storage)/ Pc-P (PTP) = USB connection, Cln = Sensor cleaning |
| Preview Function | Optical Preview: Depth of field confirmation (electronically controlled and usable in all exposure modes) Digital Preview: Composition, exposure, focus and white balance confirmation |
| Continuous Shooting | Up to approx. 1.1 fps, RAW (PEF)+JPEG (40M /★★★): up to approx. 13 frames, RAW (PEF): up to approx. 13 frames, RAW (DNG): up to approx. 13 frames, JPEG (40M /★★★): up to approx. 13 frames |
| Self-timer | Electronically controlled with delay time of 12 sec./2 sec. (with mirror up function). Start by pressing the shutter release button. Operation confirmation: Possible to set beep. Can be cancelled after operation |
| Remote Control | PENTAX Remote Control F (optional)/Remote Control Waterproof O-RC1 (optional) Releases the shutter immediately or three seconds after pressing the remote control shutter release button |
| Mirror | Quick-return mirror, mirror up function |
| Digital Filter | Monochrome, Extract Color, Color, Base Parameter Adj, Soft |
| Custom Image | Image Tone (8 types), Saturation, Hue, Contrast, Sharpness/Fine Sharpness, High/Low Key Adj, Filter Effect, Toning |
| Exposure Bracketing | Two, three or five frames (underexposed, proper exposure and overexposed) are shot continuously with exposure bracketing. (Selectable between 1/3 EV and 1/2 EV for EV steps) |
| Extended Bracketing | Three frames are saved continuously with white balance, saturation, hue, high/low key adjustment, contrast and sharpness bracketing. |
| Multi-exposure | Number of shots: 2 to 9 (Auto EV Adjustment can be set according to the number of shots) |
| Interval Shooting | Interval: 2 seconds to 24 hours, Number of Shots: 1 to 999, Start time can be set |
| Exposure Meter/ Exposure Range | TTL multi (77-segment metering), Exposure range from EV 2 to EV 21 at ISO 200, with 75mm F2.8 lens, Center-weighted and Spot metering mode can be set |
| EV Compensation | ±5 EV range, EV Steps can be selected |

| | |
|------------------------------|---|
| AE Lock | Button type (timer type: two times the meter operating time set in Custom Function) Continuous as long as the shutter button is halfway pressed. |
| External Flash Sync | Hot shoe with X -contact, which couples with PENTAX dedicated auto flashes, ISO range = P-TTL: 100 to 1600, Automatic flash, Red-eye reduction flash function, High-speed flash sync and wireless-sync with PENTAX dedicated flash |
| Custom Function | 35 functions can be set |
| Time Function | World Time settings for 75 cities (28 time zones) |
| Dust Removal | Ultrasonic vibrations for dust removal. Can be set to operate when the camera is turned on. |
| Power | Rechargeable lithium-ion battery D-LI90, AC adapter kit K-AC50 (optional) |
| Battery Life (23°C) | Remaining image storage capacity: approx. 800 images, Playback time: approx. 440 minutes * The number of recordable images and playback time are based on our measuring conditions. Some deviation from the above figures may occur in actual use depending on usage conditions. |
| Battery Exhaustion | Battery exhaustion indicator  is lit. (The shutter is locked and no indication appears in the viewfinder when  starts blinking.) |
| In/Out Port | USB terminal (USB 2.0 (high speed compatible)), Video terminal (Mini jack), mini HDMI terminal, DC input terminal, Cable release terminal, X-sync socket |
| Video Output Format | NTSC/PAL |
| Dimensions and Weight | Approx. 156mm (W) × 117mm (H) × 119mm (D) (excluding protrusions) 1400 g (body only), 1480 g (including a battery and two SD Memory Cards) |
| Accessories | Hot shoe cover Fk, Sync socket 2P cap, Standard eyecup, Large eyecup 645 O-EC107, Body mount cap 645, USB Cable I-USB107, Software (CD-ROM) S-SW107 (PENTAX Digital Camera Utility 4), Strap O-ST107, Triangular ring and protective cover, Rechargeable lithium-ion battery D-LI90, Battery charger D-BC90, AC plug cord, Operating Manual, Menu Reference (this book) |
| Languages | English, French, German, Spanish, Portuguese, Italian, Dutch, Danish, Swedish, Finnish, Polish, Czech, Hungarian, Turkish, Greek, Russian, Korean, Traditional Chinese, Simplified Chinese and Japanese |

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