

Detailed Pentax 645z specifications:

Item number 17972

Type

Camera Type Digital SLR camera with interchangeable lenses, TTL auto exposure and auto focus

Sensor Technology

Sensor Type CMOS with primary color filter, without anti Alaising filter

Recording format 43.8 x 32.8 mm

Total resolution approximately 52.99 megapixels

51.4 megapixels

Effective resolution

- RAW: 51 MP 8265 x 6192 pixels
- TIFF: 51 MP 8265 x 6192 pixels
- JPEG: L (51 MP] 8256 x 5440 pixels), M (36 MP 6912 x 5184 pixels), S (21 MP 5376 x 4032 pixels), Small (3 MP 1920 x 1440 pixels)
- RAW (DNG and PEF) (3x14 bit)

Image format

- TIFF
- JPEG (3 levels of quality)
- MPEG-4 AVC/H.264 (MOV)

Video format

- Motion JPEG (AVI) for video recording interval

Photosensitivity automatically or manually: ISO 100 - ISO 204800

Shake Reduction Shake Reduction system with appropriate lenses

Sensor Cleaning

- Sensor cleaning by ultrasound-based piezo electronics to sensor protection glass.
- With dust warning and display on the monitor (the right way).

- Pixel Mapping

Lens

Lens attachment PENTAX 645AF2 Bayonet(Compatible with 645AF and 645A bayonet connector)

Distance Measurement / autofocus

Focusing Phase detection autofocus system SAFOX 11 with 27 AF sensors (including 25 cross-type sensors and flux sensors for optimum AF performance with fast lenses).Spot AF and AF automatic, switchable to tracking (Servo) Autofocus. Focus Lock on trigger.

Each of the 27 AF points can be selected manually.The Predictive already sums up the subject on the edge and calculates the correct focus for moving subjects advance.

AF working range LW LW -3 to 18

Viewfinder

Viewfinder Type Built-in hard trapezoidal prism with Kepler's telescope viewfinder

Field about 98%

Viewfinder magnification approx 0.62 x (55mm)
approx 0.85 x (75 mm)

Focusing screen Changeable "Natural-Bright"-Matte with AF frame.Change focusing screen with grid or scale division optionally available.

Viewfinder displays Recording data, ISO, focus confirmation and electronic spirit level

Diopter correction -3.5 Dpt. - +2.0 Dpt.

Monitor

- 3.2 "- TFT Color LCD 3:2

Type

- "Air-gapless technology" for particularly bright color reproduction
- Resolution approximately 1,037,000 dots

- Hardened and kratzunempfindliches monitor glass
- Monitor brightness and color reproduction calibrated
- Zoom function up to 16x
- Status Display with recording Relevant Data
- Electronic 3D water balance (Jet Screen)
- Menu screen for certain specified configuration options
- Status display and the menu screen rotate with the rotation of the camera to horizontal and vertical view
- Histogram Display
- Index or calendar display

Live View

TTL Live images from CMOS sensor

- Contrast auto focus with face detection

Live View

- Frame with 100%
- Magnification of 2x, 4x, 8x, 12, 16
- Manual focus with focus peaking

Status Monitor

Display Status Monitor on top of the camera, lit with all relevant shooting information

Shutter

Type Electronically-controlled, vertical-traverse, focal-plane shutter.

Shutter speeds Automatic: 1/4000th sec to 30 sec (infinitely)
Manual: 1/4000th sec to 30 sec (in increments of 0.3 or 0.5 EV) and Bulb.

Flash sync speed 1/125 sec

Exposure

Metering	<p>TTL full-aperture measurement with 86K-pixel RGB sensor and real-time analysis system Measurement methods: Evaluative, Center-weighted or Spot metering</p> <ul style="list-style-type: none"> • Scene modes: <ul style="list-style-type: none"> - Hyper Program - Program AE with depth-priority - Program AE with priority on shallow depth of field - Program AE with time priority - MTF (optimal aperture according lens construction is treated with priority) • Sensitivity Priority (shutter speed and aperture are automatically set to ISO-choice)
Exposure	<ul style="list-style-type: none"> • Aperture Priority (time is set automatically to the selected aperture) • Time priority (aperture is set automatically to the selected shutter speed) • Aperture and shutter priority (sensitivity is automatically set to the selected shutter speed and aperture) • manual exposure • Long Exposure • X-sync (1/125 sec)
Workspace	EV -1 to EV 21
Measured value	touch of a button
Exposure	<ul style="list-style-type: none"> • ± 5 EV • Auto Exposure Bracketing 3 or 5 exposures
Flash	
Flash function	Hot shoe on the camera top, X-sync terminal,
Recording parameters	
Types of Recording	<p>Six color characteristics in the "Custom Image" function:</p> <ul style="list-style-type: none"> • Bright • Of course

- Portrait
- Landscape
- Alive
- Covered
- Positive Film
- Monochrome

with individual adjustment for:

- Saturation
- Hue
- Hi-/Low-Key adaptation
- Contrast
- Highlights adjustment
- Shadow Adjustment
- Sharpness (Fine Sharpness and Extra Sharpness)
- Automatic or manual
- TTL setting with the imaging sensor

White Balance

- Default:
 - daylight
 - shadow
 - Cloudy Sky
 - Incandescent
 - Fluorescent (W, N, D, L)
 - CTE (Color Temperature Enlargement)
- 3 manual settings: continuously in the range of 2,500 K to 10,000 K
- Farbextrahierung

Digital filter

- Toy camera (vignetting / Lomo effect)
- Retro

- High contrast
- Monochrome
- various color filters
- Watercolor
- Pastel

and much more

- Single shots
- Continuous shooting at 1 / Sec. (Cont. L) or up to 3 B / sec. (JPEG L - H Cont.)
Up to 300 images in succession (JPEG L - Continuous L)
- Self-timer (12 or 2 sec)
- Mirror lock-up
- Multiple Exposure
- Interval Photo - 2 sec - 24 hours, 2 to 2000 recordings; Start time can be set individually.
Footage - 4K (2 sec), Full HD, HD - 14 sec to 1 hour of recording time; 14 sec - 99 hours intervals; Start time can be set individually.
- IR remote control - 3 meters (Optional)
- Cable Switch CS 205 - 1m (Optional)
- Flucard for wireless camera control and image transmission (Optional)
- Camera Utility 5 for camera control from the computer (Optional)

Tripping
functions

Video function

- Full HD (1,920 x 1,080)
- HD (1280 x 720)
- 4K in interval mode
- 60i / 50i / 30 B / sec. / 25 B / sec. / 24 B / sec.
- Recording format MPEG-4 AVC/H.264

Recording
function

- Manual Exposure
- Manual Focus leadership for the optimal implementation of the creativity
- maximum recording length 25 minutes
- Stereo sound recording with built in microphone
- Connecting an external stereo microphone possible
- Manual audio level
- Headphone jack
- Parts of video recordings

Video Editing

- Deleting Scenes
- Save picture from motion picture

Image Storage

Memory Type

SD Memory Card, SDHC Memory Card * (UHS compatible), Eye-Fi card or Flucard*
 The maximum storage capacity with SDHC cards is 32 GB
 To the power of the camera to make optimum use, we recommend SanDisk Extreme III memory cards.

- PEF (PENTAX own RAW format)
- DNG (open RAW format)

File Formats

- JPEG (Exif 2.21) (komprimierte JPEG files: *** Best, ** Better, * Good), DCF (Design rule of camera file system)
- Simultaneous recording of JPEG and RAW files possible

File Name

- Folder Name: Date or individuell (default: PENTX)
- Default file name, or up to 4 individual characters

Special

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- Sensor cleaning by ultrasound - The dust is collected by means of adhesive tape in the camera
- Dust Alert to display the buildup on the sensor

- **Depth of field preview**
- **Digital Preview for verifying correct exposure, color temperature or the color in the Custom Image function**
- **Histogram display in individual channels**
- **Programmable dials (The front and rear control dial can be assigned individually for the different exposure options)**
- **76 housing seals against moisture and dust.**
protection against environmental influences is one of the most important details to an electronic camera. Rain or high humidity can lead to corrosion in the camera body. The photographer noted this but only much later, when the workshop requires high repair prices or repair is no longer possible. Much faster makes the stay at the beach noticeable. In modern microtechnology a grain of sand is sufficient to allow the tiny motors, and even smaller gear wheels lock and the camera often becomes unusable. With the comprehensive protection program for the 645Z, this camera can still take pictures (even in winter to -10 ° C), if other photographers have their camera better packaged.

Connections

- **USB 3.0 Hi-Speed (Micro B)**
- **X-sync**

Compounds

- **HDMI (Type 3)**
- **AC adapter (optional)**
- **Cable Switch CS 205 (optional)**

Energy

Energy source **Rechargeable lithium-ion battery of the type D-LI90**

- **about 650 pictures**

Battery capacity • **approximately 400 minutes of recording / playback time**

Under Pentax testing conditions at 23 ° C

Dimensions and weight

Height 117 mm
Width 156 mm
Depth 123 mm
Weight 1,550 g (with card and battery)

Accessories

Part No. 39475 Power Cord D-CO2E
Art No. 39830 lithium-ion battery D-LI90
Art No. 39831 battery charger D-BC90
Art No. 31011 Eyecup O-EC107
Art No. 38615 Strap O-ST150
Software S-SW150

Scope of delivery eyecup FSThis camera comes with a German-speaking guide. If an instruction in a foreign language have to be settled expeditiously, please contact your local camera dealer. We are happy to provide further instructions. As a reimbursement of 20 euros will be charged.

Item No. 39830 Li-ion battery D-LI90
Art No. 39834 Battery Charge Kit K-BC90E
Art No. 38779 Power supply K-AC132E
Art No. 39012 GPS Module O-GPS1
Art No. 38584 645D MATT SCREEN DF-80 Toilet
Articles No. 38582 645D MATT SCREEN DG-80 Toilet
Articles No. 38583 645D MATT SCREEN DK-80 Toilet
Articles No. 39357 Sensor Cleaning Kit O-ICK1
Art No. 37248 Cable Switch CS-205
Art No. 39892 Weatherproof remote control O-RC1
Art No. 38610 Flucard for 16GB Pentax O-FC1
Art No. 30465 AF 200FG flash
Art No. 30438 AF Speedlight 360FGZ II
Article No. 30456 AF Speedlight 540FGZ II
Article No. 50278 SLR Backpack

optional