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K20D

**The new mid-range digital SLR
camera addressing the high-level
amateur photographer.**

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Technical Data of Sensor

- 14.6 Megapixels
- APS-C size
- Crop factor 1.5
- CMOS technique
- Up to ISO 6400



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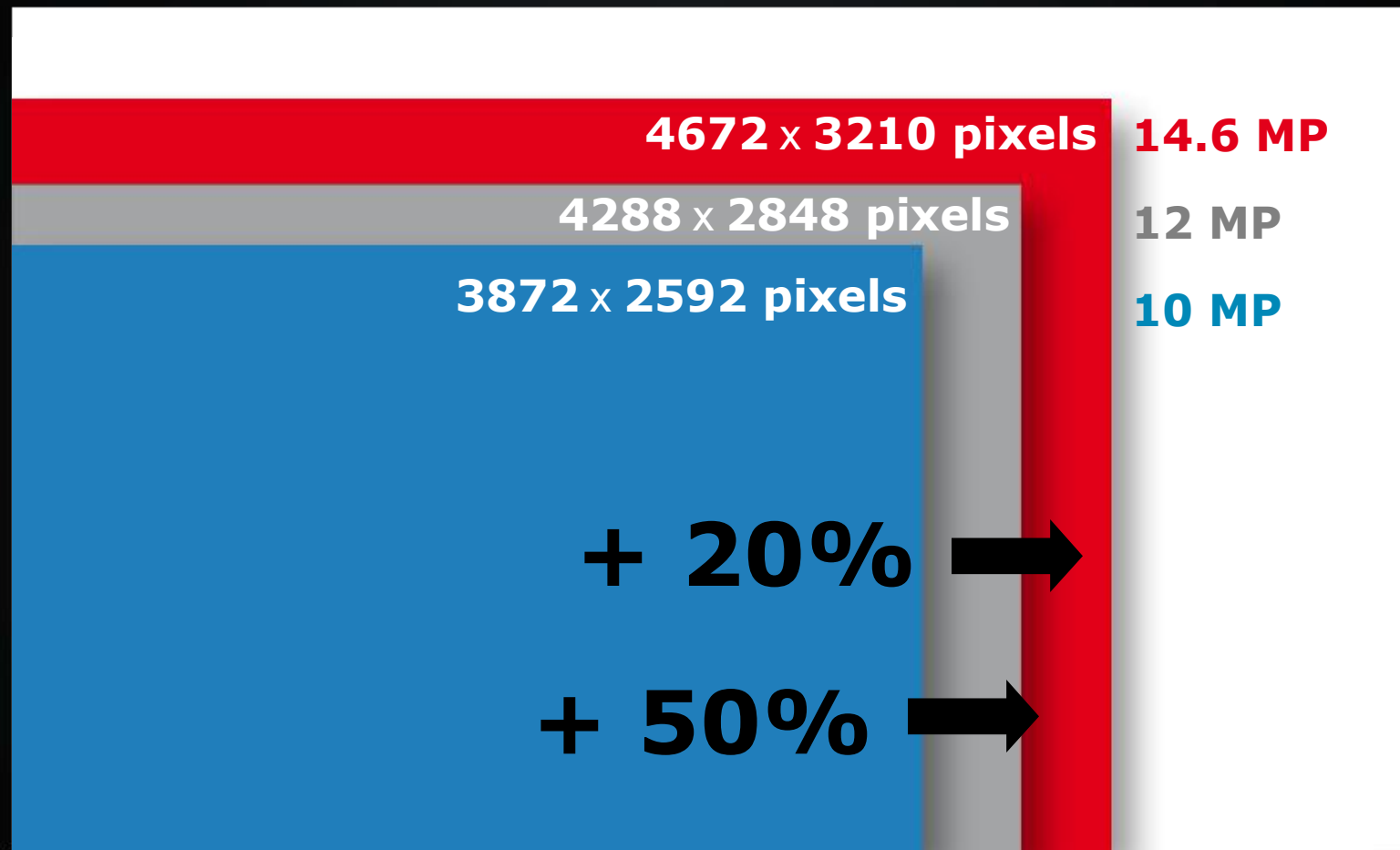


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of sensor sizes





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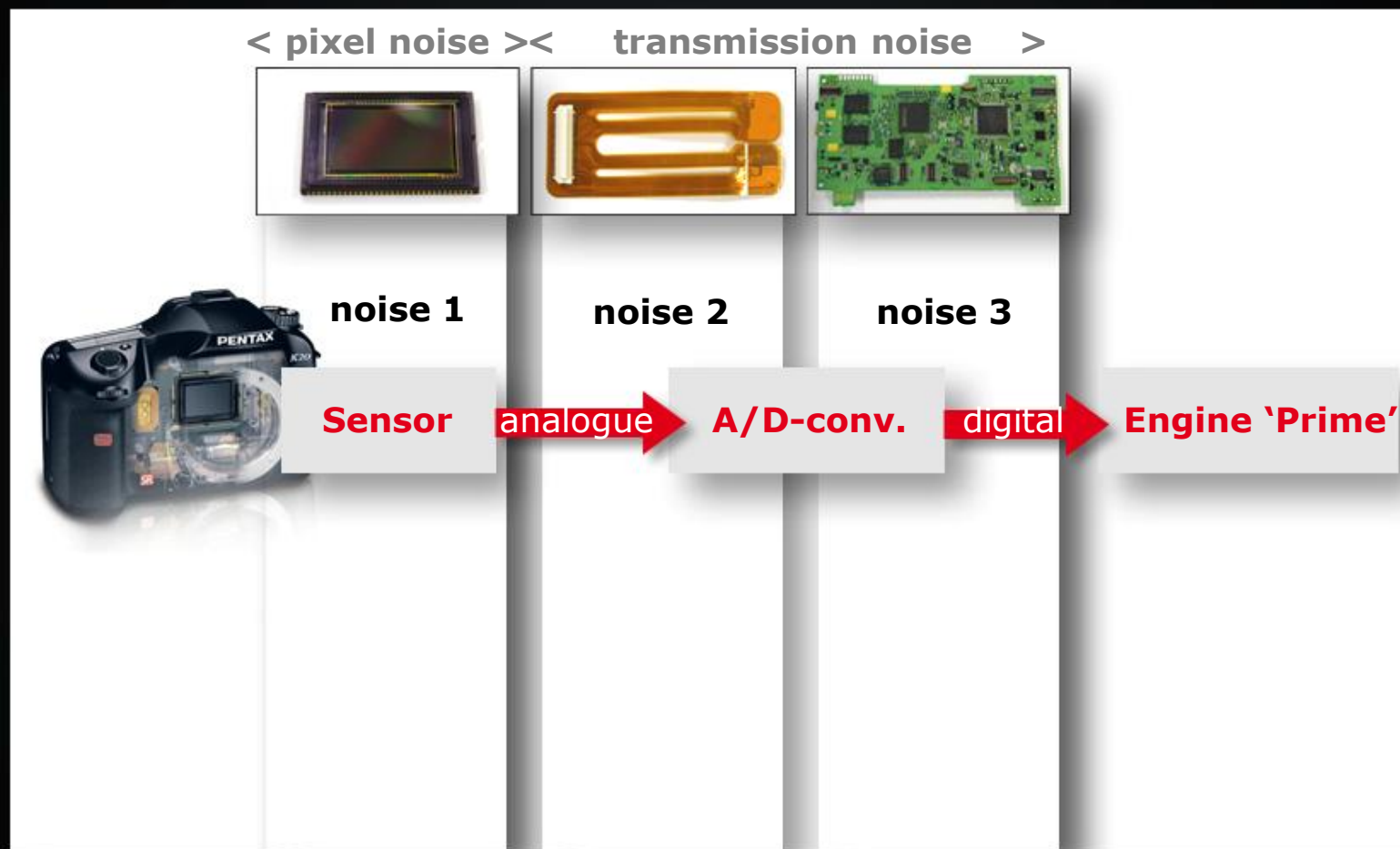
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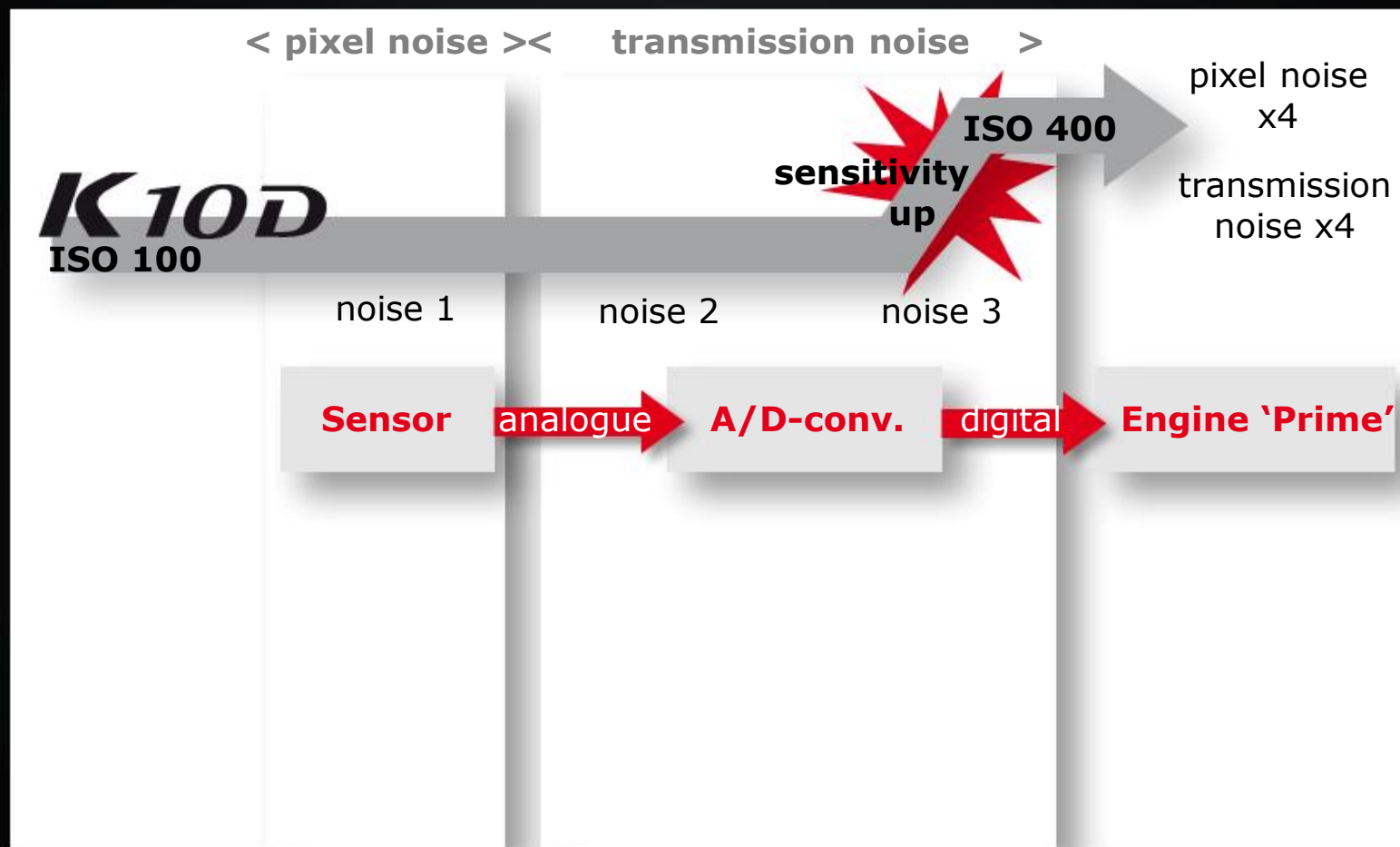
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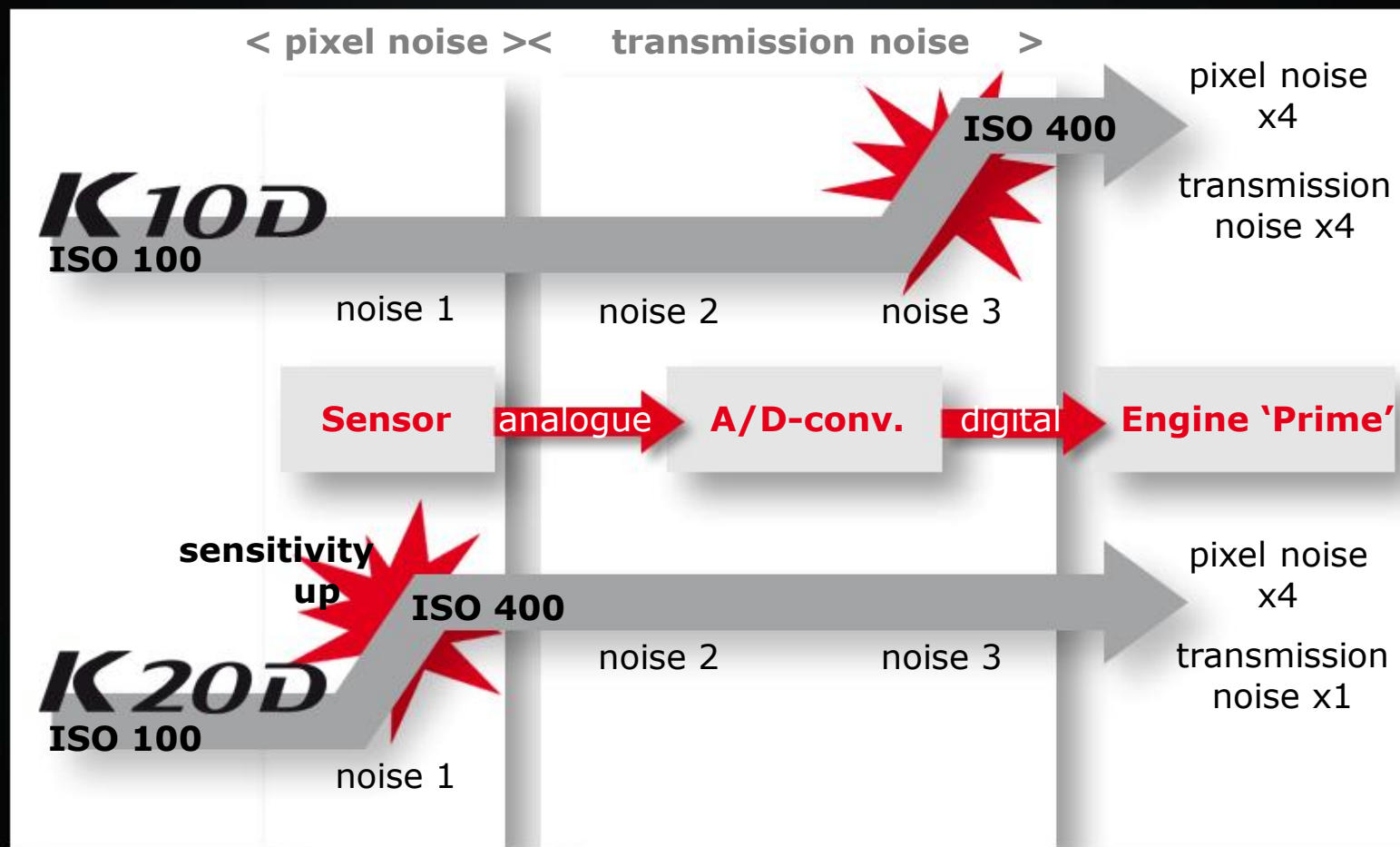
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CMOS Construction

- Reduced peripheral circuit volume achieves the same amount of light-receiving area as 12MP sensor



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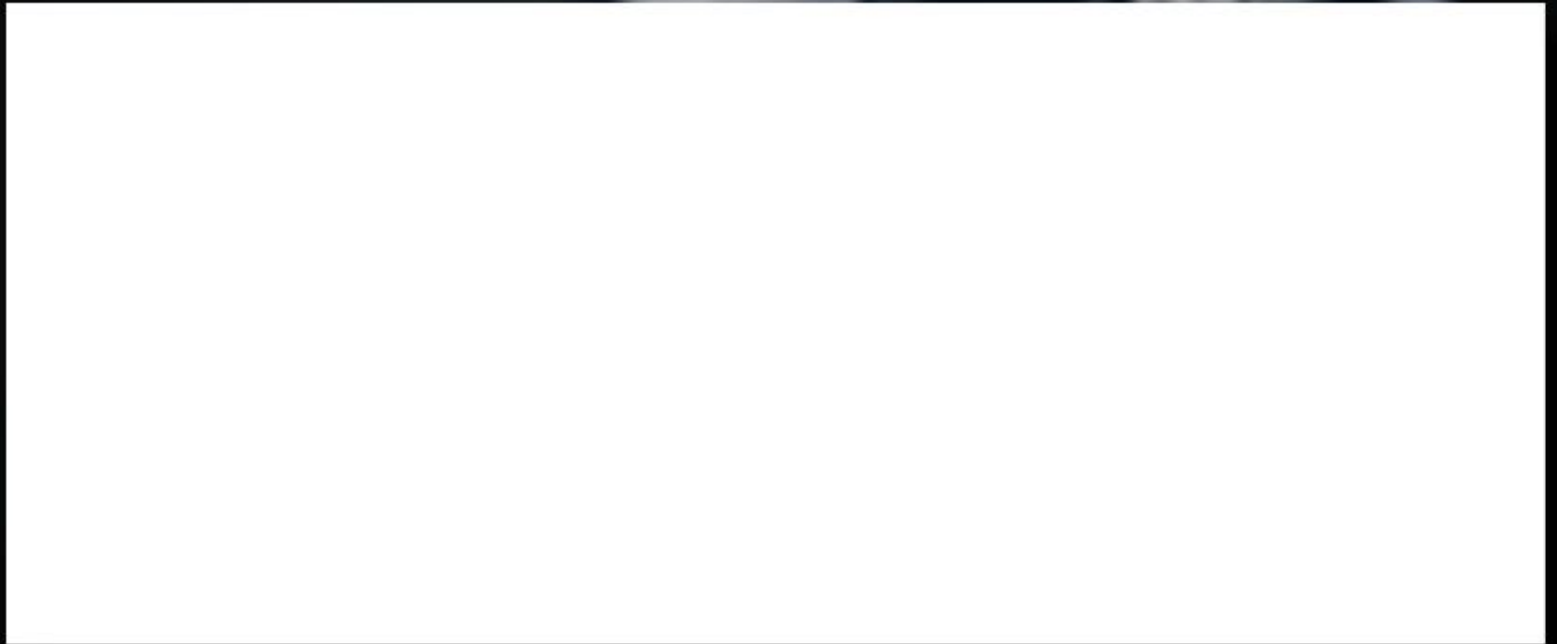
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CMOS Construction

- Reduced peripheral circuit volume achieves the same amount of light-receiving area as 12MP sensor





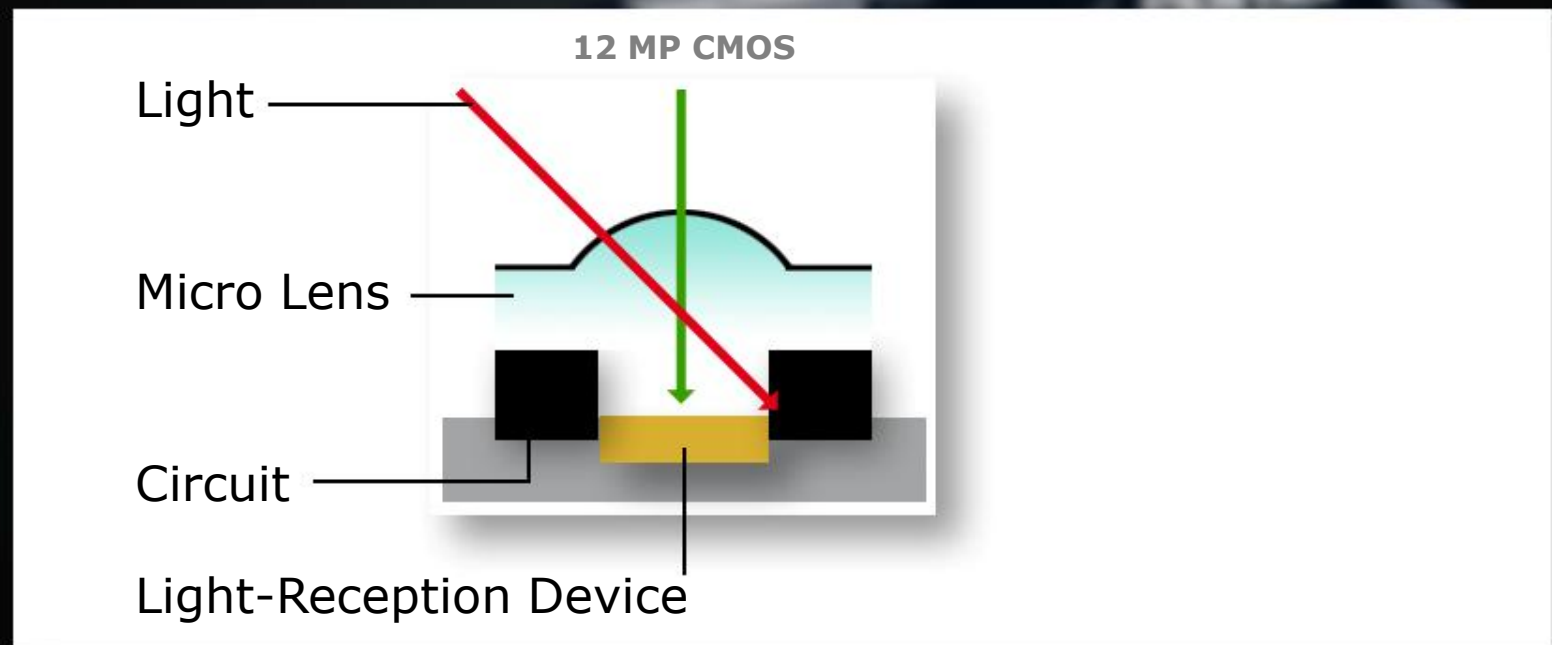
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CMOS Construction

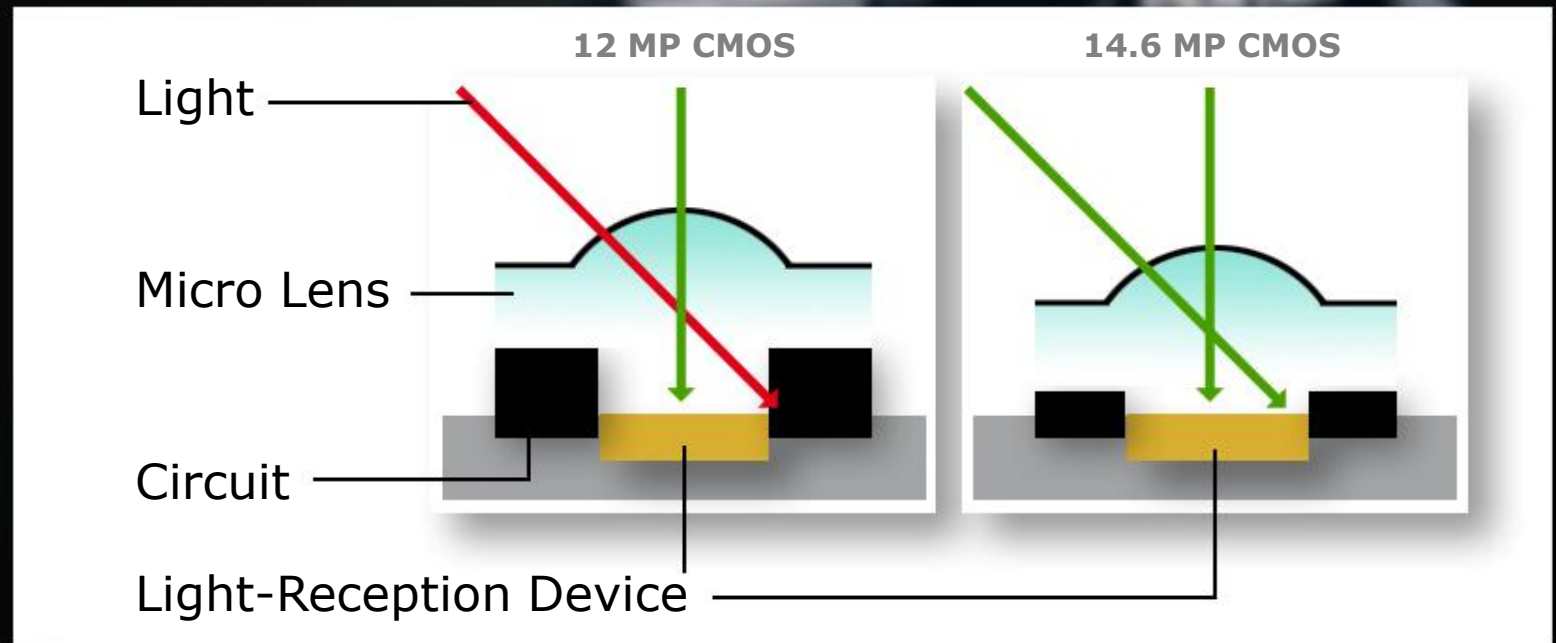
- Reduced peripheral circuit volume achieves the same amount of light-receiving area as 12MP sensor





CMOS Construction

- Reduced peripheral circuit volume achieves the same amount of light-receiving area as 12MP sensor





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nction

- AF works in shooting (with mirror up and down)
- SR function works during Live View

Live View on LCD:

- AF-Frame
- Grid
- Enlargement





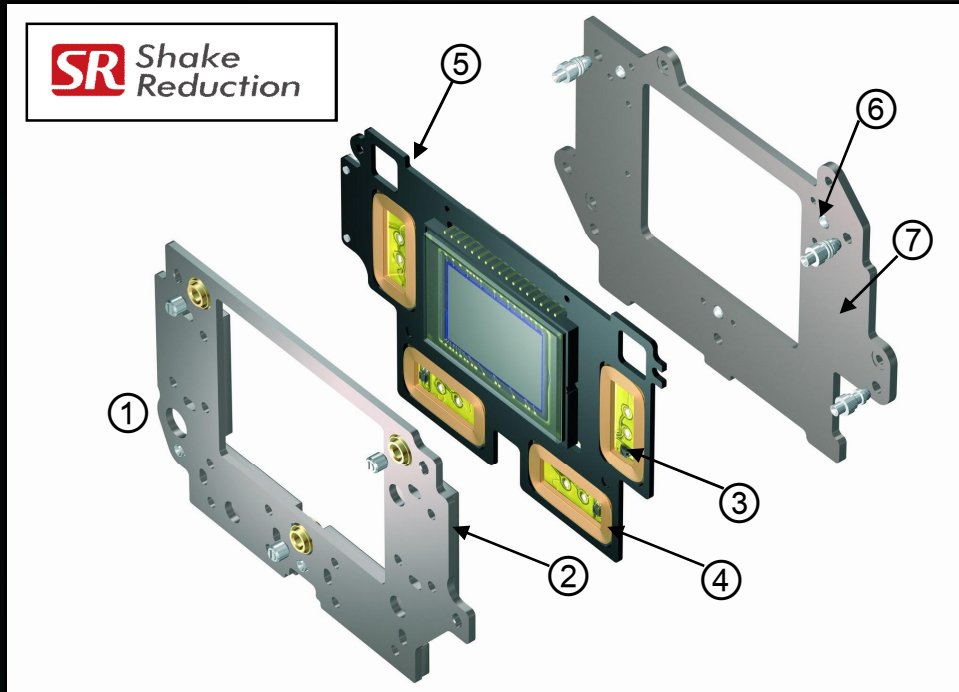
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Shake Reduction



- ① Front plate
- ② Permanent magnet
- ③ Positioning sensor
- ④ Electrical magnet
- ⑤ Center plate
- ⑥ Position support ball bearing
- ⑦ Back plate




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hake Reduction

- 
- Lighter sensor than previously
 - Improvement of flexible circuit
 - Increased resolution limit
 - Optimized control algorithm

Improved stabilisation to 4 shutter speed steps



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Adjustment

- Focal plane can be adjusted to solve front/back focus problem

- All lenses
- One lens





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ion

- Dust repellent coating on low-pass filter
- Dust Removal (Shake function)
- Dust collection tape inside body
- NEW: Dust Alert function



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ing Function

- Software for Pixel Mapping “on board”



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- RAW as PEF
- RAW as DNG
- JPEG

- RAW+
(JPEG + RAW)

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AW Development

Almost everything
can be adjusted:

- Resolution
- TIFF or JPEG
- Colour space:
Adobe RGB, sRGB
- Custom Image:
free choice for
image tone
- etc.





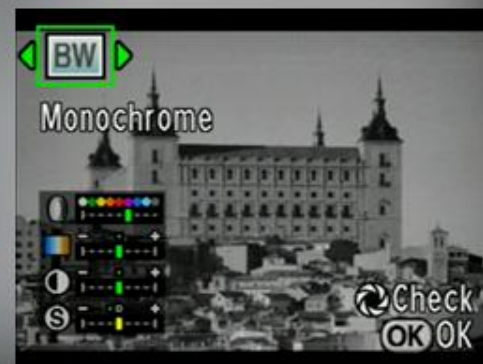
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Image Settings

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- 6 different settings for image tone
- Fine tune of each image tone setting
- Effect of setting can be checked with preview function
- Various filters in monochrome setting



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Dynamic Range Enlargement

- Dynamic range can be enlarged by 1EV (=200%)
- More gradation without over-exposure

Conference DUBAI

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Dynamic Range Enlargement

- Dynamic range can be enlarged by 1EV (=200%)
- More gradation without over-exposure





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LCD for perfect control

- 2.7" LCD
- 230,000 dots resolution
- 160° wide angle view
- Colour Adjustment of LCD





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Sealed housing

- Steel chassis with fibre-reinforced polycarbonate body
- Dust and splash-proof
- Special seals applied to 74 parts of body
- New: X-sync with weather-proof seal



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ich more ...

Dust Alert - Live View - Digital Preview (can be saved as JPEG) .
Noise reduction in hardware . Noise reduction in software . 14.6 MP
CMOS sensor . Pentaprism viewfinder - Shake Reduction 4 shutter
speed steps - Dynamic Range Enlargement - 14 Bit A/D converter - ISO
100 to ISO 6400 . super fast signal processing with PRIME . 16-
segment exposure metering - 11-point AF - 9 cross sensors - Custom
Image with 6 image tone choices . AF adjustment . Histogram in colour
channels . B&W recording - RAW Files in DNG Format - simultaneous
RAW+JPEG . Interval shooting - X-Sync connection for external flash -
Individual file name . Pixel mapping . 3 levels of Dust protection . Dust
Alert - 2.7% LCD . 160° wide angle monitor . In-camera RAW
development . Menu text can be enlarged to 150% - 4 exposure
settings (Normal, High Speed, Depth-of-field, MTF) - customized
settings for any buttons . wireless flash control . dust and weatherproof
housing with 74 special seals . JPEG recording until SD memory is full
 . up to 16 RAW files in sequence . 2.9 pictures per second . Burst
mode with 20 pictures per second (limited in resolution) . Bracketing for
White Balance, Saturation, Image tone, Contrast, Sharpness . Light
weight 800g (without lens) - PENTAX K_{AF2} bayonet mount - ÷ .



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Interchangeable Lenses

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DA 18-55mm F3.5-5.6 AL **II**



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DA 18-55mm F3.5-5.6 AL **II**

- Compatibility with high-pixel (over 10 MP) image sensors through increased resolution
- New 18-55mm optical construction
- Application of SP Coating to the front surface
- Characteristics shared with the previous DA 18-55:
 - Front frame structure does not rotate when focusing
 - Enhanced MF operability using an independent focus ring
 - Greater MF operability using the Quick Shift Focus System
 - Metal lens mount



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Protect) Coating

- Fluorine compound applied to lens surfaces through vapor deposition
- Coating works similar to fluids applied to car windshields to keep off water
- Keeps off dirt and allows easier cleaning
- Optical performance is similar to PENTAX's Multi-Coating; coating does not effect image quality
- Non-toxic substance
- Application on basically all future PENTAX lenses planned



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DA 55-300mm F4-5.8 ED



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DA 55-**300**mm F4-5.8 ED

- Zoom lens to the telephoto extreme (equivalent 450mm in 35mm format)
- ED (Extra-low Dispersion) glass to reduce chromatic aberration
- SP Coating on the front surface



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DA★ 200mm F2.8 ED [IF] SDM



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DA★ 200mm F2.8 ED [IF] SDM

- High-performance lens (★) with lowest possible level of aberrations
- Quiet, fast and precise auto focus (AF) through Sonic Drive Motor (SDM)
- Compatible with body-integrated AF (even cameras pre-dating K100D)
- Dust and splash resistant design
- SP Coating on the front surface



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DA★ 300mm F4 ED [IF] SDM



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DA★ 300mm F4 ED [IF] SDM

- High-performance lens (★) with lowest possible level of aberrations
- Quiet, fast and precise auto focus (AF) through Sonic Drive Motor (SDM)
- Compatible with body-integrated AF
- Dust and splash resistant design
- SP Coating on the front surface
- Removable tripod collar



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PENTAX DA 35mm F2.8 Macro Limited



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DA 35mm F2.8 **Macro Limited**

- First Limited Edition macro lens in DA series
- Limited Edition features unique design with machined aluminium lens body
- Close-ups at 1/1 magnification possible (actual size)
- Pull-out hood (stored in lens body)

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