

Zeutschel CAM

detecting information instead of guessing



Zeutschel CAM



- ✓ X/Y Pixel shift Camera
- ✓ 1-, 4- and 16-shot for digital backs
- ✓ Ultra precision focus drive
- ✓ Super high-resolution lenses

What is the Zeutschel CAM

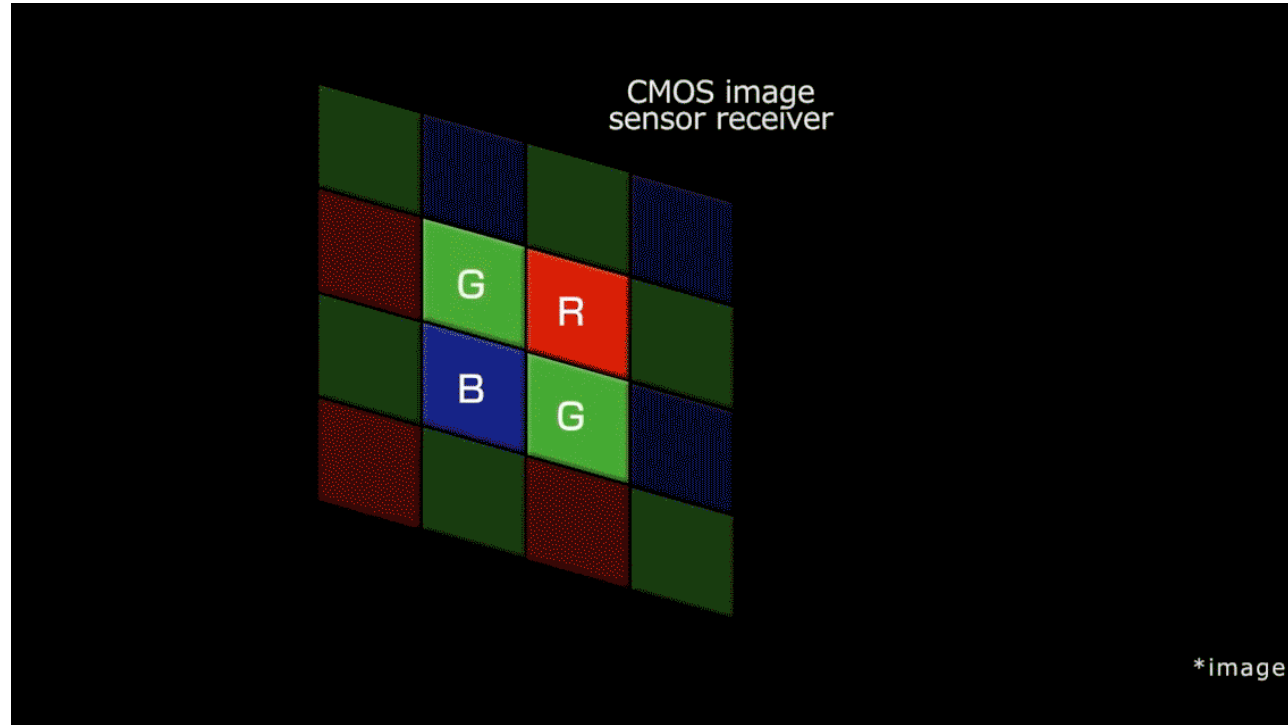
- It is an ultra precision pixel shift camera
- It is dedicated for repro and studio applications
- It is compliant with all variants of OS A – including OS A W and ScanStudio
- It is available now

Pixel Shift –what does the camera do

- the Zeutschel CAM converts all supported camera backs in to pixel shift cameras due to its piezo engine
- This piezo stage takes up to 1kg load and travels is up to 14µm in X and Y direction
- Its phenomenal positioning accuracy is 1/20th of a pixel equal to 140nm
- What is pixel shift good for ?

Zeutschel CAM

- The Pixelshift -

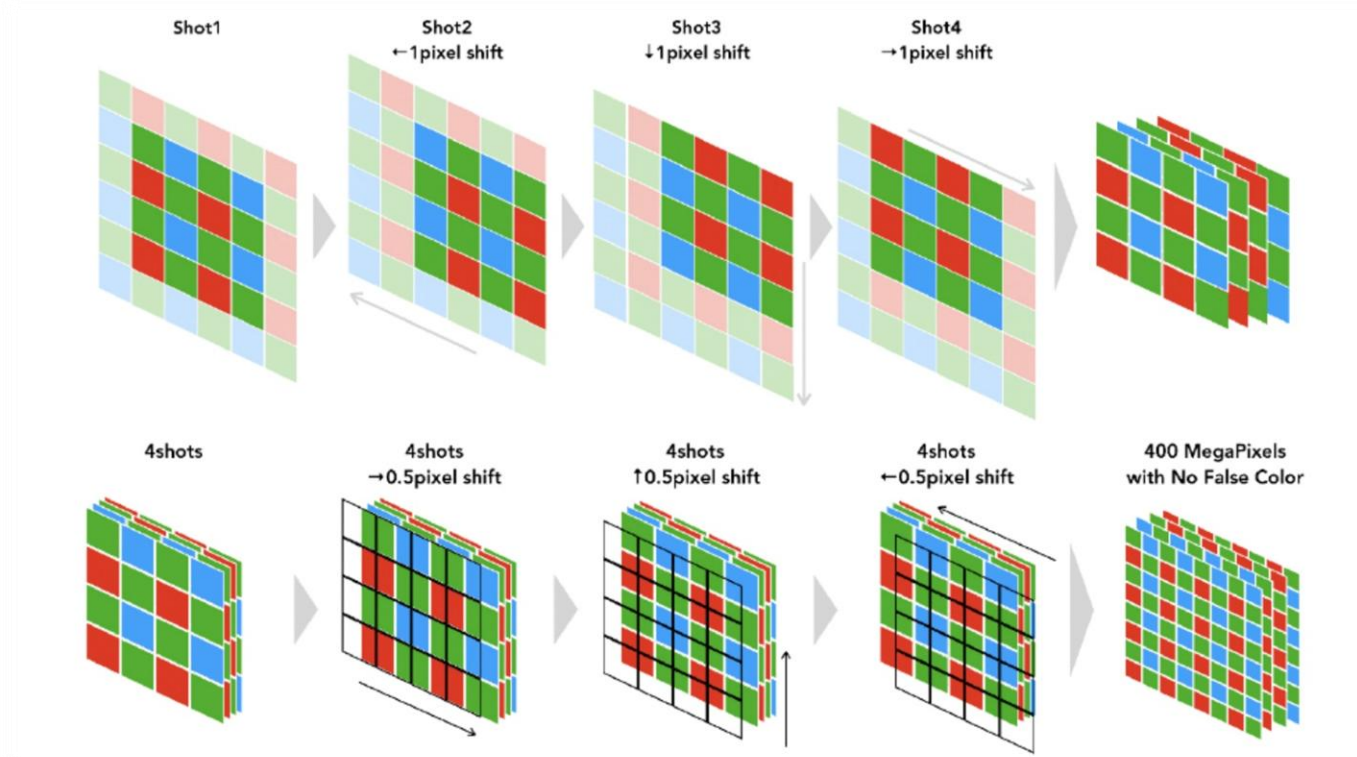


What is Zeutschel 4-shot pixel shift about

- Taking multiple exposures and Shifting the Sensor/Camera Back in between leads to full RGB detection for any single Pixel
- 4 exposures in a sequence and one full pixel shift results in moiré free RGB detection at full sensor resolution
- It's fast too since it does not a de-bayering interpolation like single shots need

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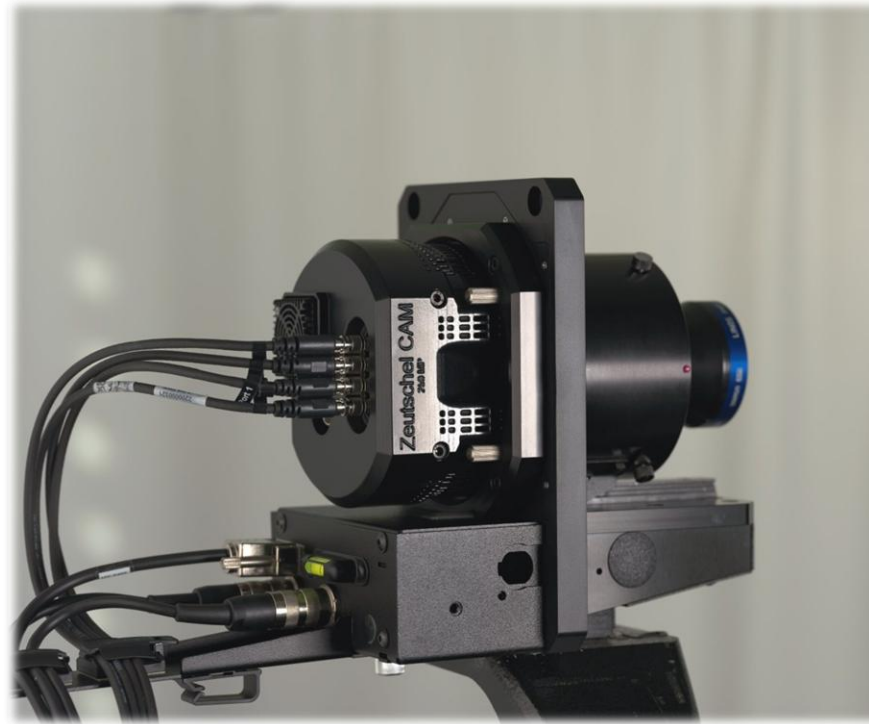
- The Pixelshift -



What is Zeutschel 16-shot pixel shift about

- A 16-shot is 4 times a 4-shot in sequence with an additional half-pixel shift in between the four 4-shots
- This results in full RGB detection with a double of the native sensor resolution
- 16-shot doubles the native sampling rate and gains up to 30-35% MTF over a 4 shot

Zeutschel CAM



✓ Ultra high resolution repro lenses

✓ Full Zeutschel Gamma 1 Workflow

✓ Outperforming Quality Standards

Full color detection and resolution boost

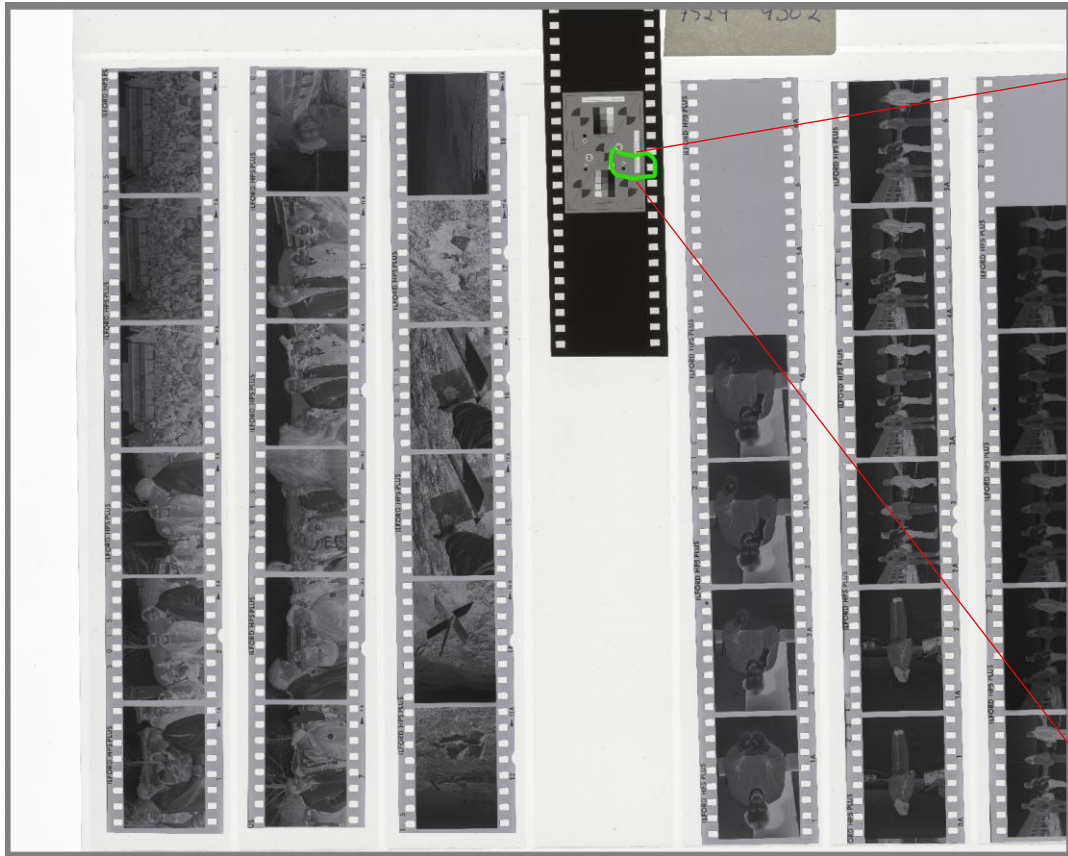
- 150MP Backs (Zeutschel, phase one) deliver 150 MP in Single or 4-Shot. 600 MP in 16-shot mode on
- 250MP Backs (Zeutschel) deliver 245MP in Single or 4-Shot. 1GP (885 MP) is achieved in 16-shot mode

Zeutschel CAM technology

- 1-, 4- and 16 shot supported
- 4- and 16-shot Image assembly on the fly
- Optical pixel shift re-calibration
- Dead pixel detection and correction
- Dedicated super high resolution reprographic lenses

1-4-16 shot resolution comparison

Phase One XF IQ4 150
one shot @1130PPI



One Shot Image 150 MP
Bayer Interpolation



1-4-16 shot resolution comparison

Zeutschel CAM 151MP
16x shot @2154 (1027) PPI

Multi Shot Image 16x150 MP
Real RGB detection

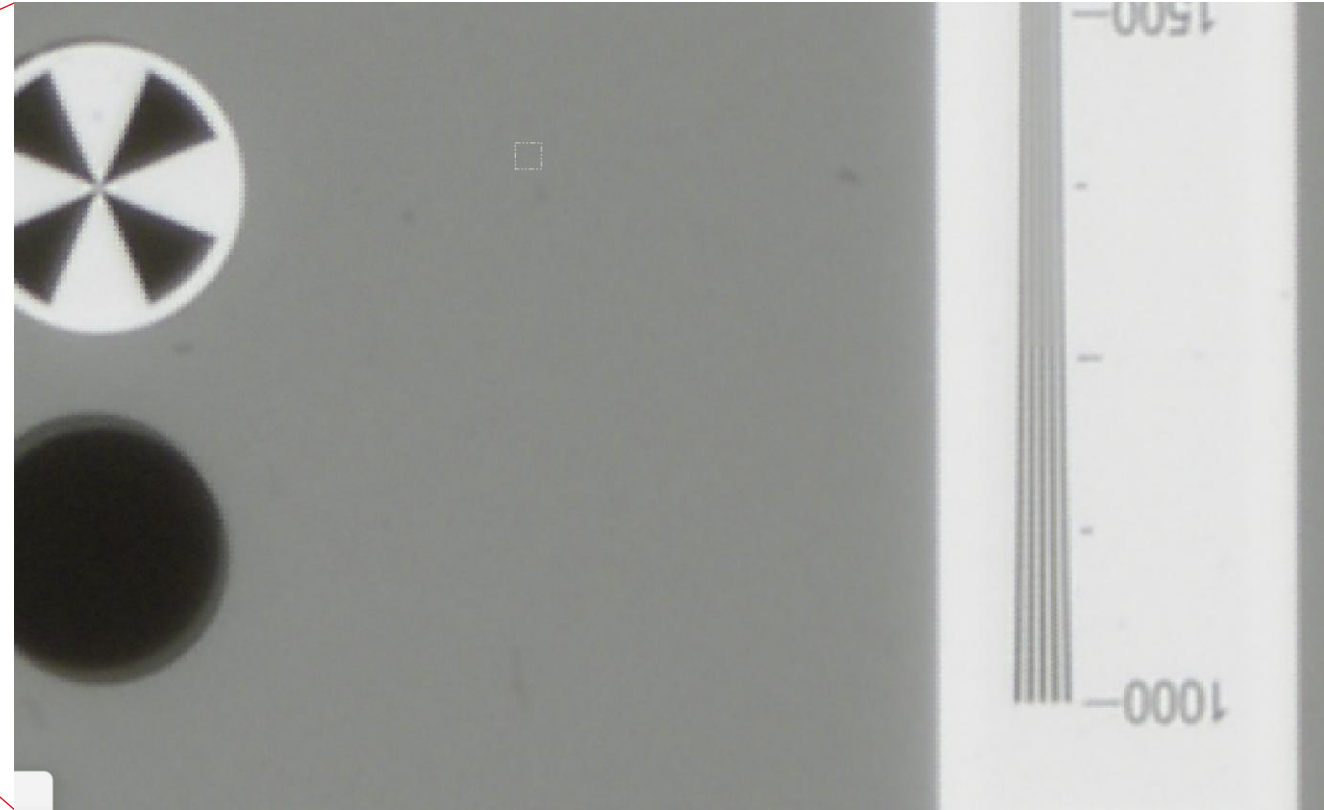
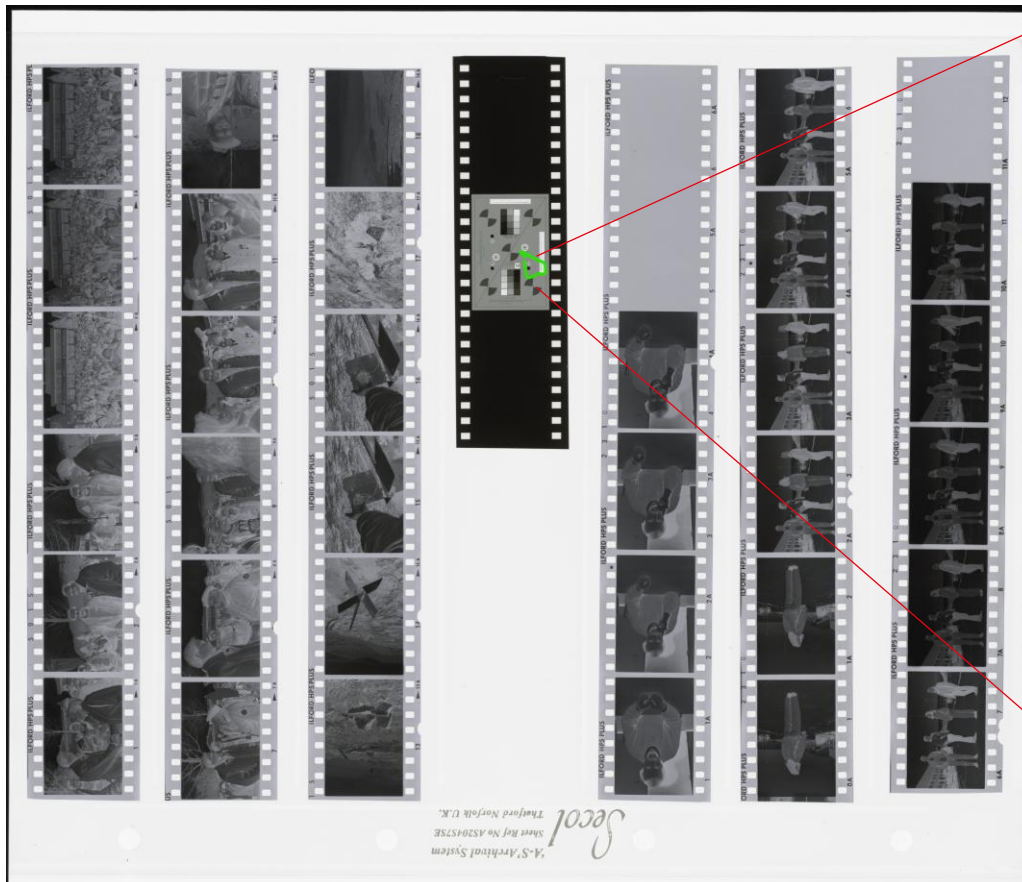


1-4-16 shot resolution comparison



Zeuschel CAM 245MP
16x shot @2380 (1190) PPI

Multi Shot Image 16x245 MP
Real RGB detection



New Zeutschel CAM X/Y Camera



✓ 600P for Phase One IQ4 150

✓ real RGB -No bayer interpolation

✓ Autofocus based on live Image

Zeutschel CAM technology

- 60mm lens stage travel 0.5 μ m positioning accuracy
- 0.5 μ m parallelism accuracy sensor to lens plane
- Live image with pixel precise zoom function
- Autofocus and assisted manual focus with focus values
- Lens detection, orientation detection (SCS)

Zeutschel CAM technology

- Enabling a ISO calibrated scene referred workflow in the Studio
- Enabling a moiré-free, real RGB detection on any single pixel
- Resolution boost through Sub-Pixel sampling

New Zeutschel CAM



✓ X/Y Pixel shift Camera

✓ 1-, 4- and 16-shot for backs

✓ Autofocus based on live Image

Zeutschel CAM technology is

- Compliant with OS A2 and OS A1
- Compliant with OS A XL and OS A XXL
- Compliant with OS A V
- Compliant with OS A W
on repro rail or in any photo studio
- Compliant with Zeutschel ScanStudio

Zeutschel CAM technology is

- Compliant with Zeutschel 150 MP GigE camera back
- Compliant with Zeutschel 250 MP CXP-12 camera back
- Compliant with Phase one IQ4 150 camera back

Thank you !

any questions ?



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Info about the Zeutschel backs



	Zeutschel Back 151 MP /HX-5336	Zeutschel Back 250 MP /HX-5337
Sensor	Sony IMX411	Sony IMX811
Effective Pixels	14192 x 10640 (151 MP)	19200x12800 (245.7 MP)
Total Pixels	14304 x 10802 (155 MP)	19680 x 13308 (261.9 MP)
Pixel Size	3.76µm	2.81µm
Active area	53.3 x 40 mm	53.95 x 35.96mm
Sensor size	Type 4.2 (66.7 mm diagonal)	Type 4.1 (64.81mm diagonal)
Interface	10GigE Vision	Quad CPX12 (4x CoaxPress)
Shutter type	Electronic shutter (rolling)	Electronic shutter (rolling)
Live image	Yes (up to 3.1 f/sec @ full res)	Yes (up to 12 f/sec @ full res)
Cable Type	RJ45 CAT 7 up to 20m	CXP-12 Cable up to 15m (30m)
Grabber	10GigE Network adapter with filter driver (BroadCom)	Dedicated Quad CoaXPress Grabber board (Allied)
Versions	RGB Bayer Filter or Grey Sensor	RGB Bayer Filter or Grey Sensor