

# TSI POWERVIEW™ PLUS 4MP-180 4 MEGAPIXELS 180 FRAMES PER SECOND

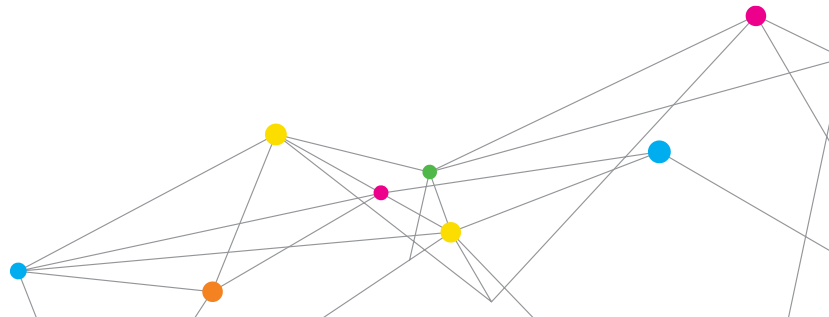
TSI's PowerView™ Plus 4MP-180 Camera is a multi-bit, 4-megapixel, digital CMOS camera designed exclusively for global flow measurements. It offers 2048 × 2048 pixel resolution with a pixel size of 5.5 μm × 5.5 μm, and operates at 180 frames per second with 10-tap 8-bit output. With an extremely low noise level and high signal quality, it can image large flow fields with very high resolution.



Thanks to high signal quality and low noise, this latest-generation camera is ideal for global flow measurements using PIV. Other features, such as short frame straddling times and high quantum efficiency, make it appropriate for a wide variety of applications ranging from hypersonic to creeping flows. The 4MP camera is fitted with an F-mount lens mount and comes standard with a Nikon® 50-mm lens, camera interface and all interface cables.



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## SPECIFICATIONS

### TSI POWerview PLUS 4MP-180 4 MEGAPIXELS – 180 FRAMES PER SECOND

Description	Specifications
Image Device	Global Shutter CMOS with Microlens
Pixel Resolution	2048 x 2048 Pixels
Pixel Size	5.5 $\mu\text{m}$ x 5.5 $\mu\text{m}$
Image Size	11.3 mm x 11.3 mm
Intensity Dynamic Range	8-bit
Frame Rate	180 fps
Quantum Efficiency	55% (550 nm)
Pixel Clock Rate	85 MHz
Frame Straddle Time	<8 $\mu\text{s}$
Lens Mount	Nikon F-Mount
Camera Interface	Dual 25-Pin Camera Link
Standard Camera Lens	Nikon 50 mm F1.8 Lens

Specifications are subject to change without notice.

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