



DIGITAL TRANSITIONS®

INDUSTRIAL

IMAGING SOLUTIONS



High-Precision Imaging
for Industrial Applications

REDEFINING HIGH-PRECISION IMAGING

For the past 14 years, Digital Transitions has been an industry leader in developing high-precision, custom digital imaging solutions. Serving a diverse group of demanding clients from Google to the Library of Congress, we have continued to push the boundaries of what digital imaging can accomplish.

At the heart of our current solutions is our flagship 101 MP sensor technology. Using the largest, highest resolution CMOS sensor to date, we enable our clients to maximize resolution, dynamic range, and color accuracy over enormous fields of view. While other stock cameras and optics may be appropriate for simple applications, DT solutions are custom designed for tasks where no compromise is acceptable.

Our dedication to excellence extends to the rest of our system components as well. We use only the finest optics engineered by venerable German lensmakers Schneider-Kreuznach and Rodenstock, and our housings and structural components are all fabricated from aerospace grade aluminum in the USA.

Potential applications of our imaging solutions include:

- Micron-level inspection of critical mechanical and electronic components
- Multispectral PCB and multi-chip-module inspection
- Quality control of extremely large aerospace or automotive parts
- Evaluation of geologic materials for carbon capture or resource detection
- Medical & Forensic Documentation, Digital Pathology & Microscopy
- High-throughput parallel imaging of multiple products or assembly lines
- Remote inspection of large, hazardous environments
- Security and large crowd monitoring, airport/seaport security
- Data acquisition for automation, machine vision, and computational imaging

Contact us for more information or to request a demo:

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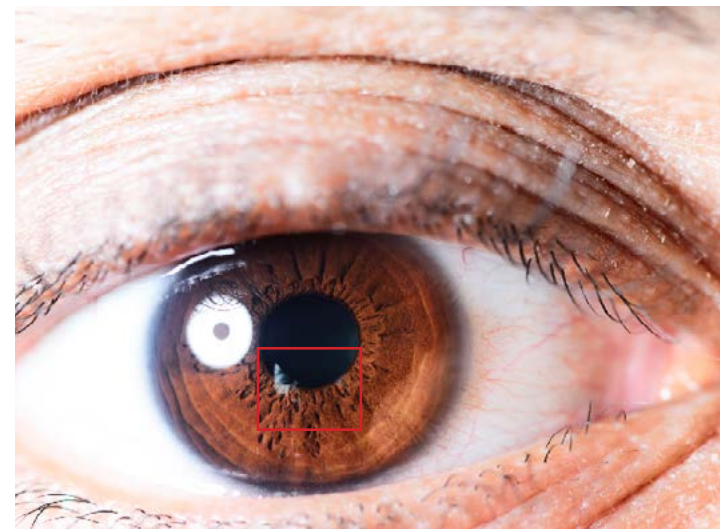
IMAGE SAMPLES



Original 101MP Image



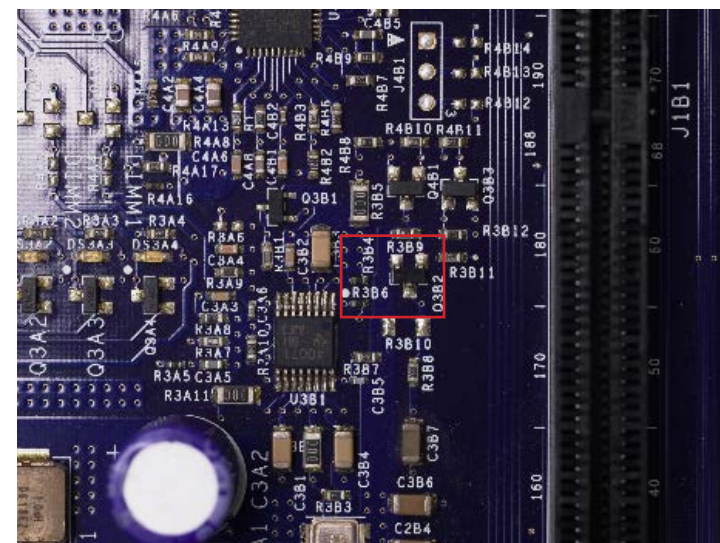
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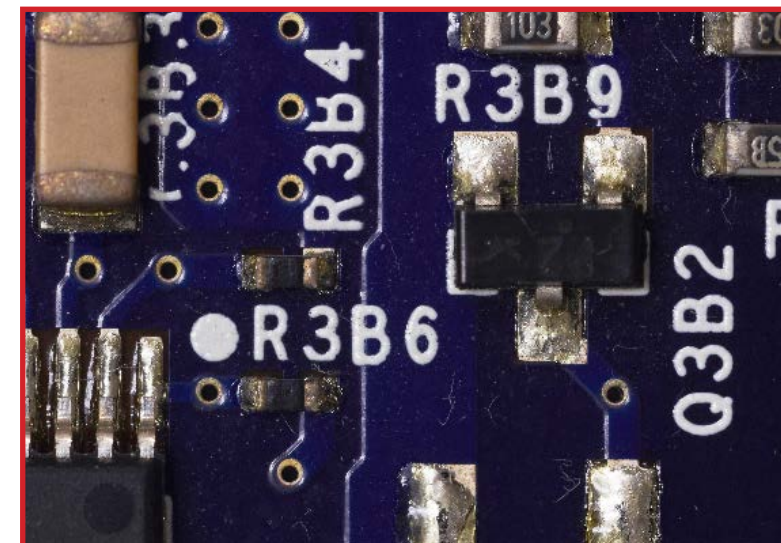
Original 101MP Image



100% Crop



Original 101MP Image



100% Crop

Technical Specifications

Sensor

Resolution	101MP (11608px x 8708px)
Dynamic Range	90dB
Bit Depth	16-bit
Aspect Ratio	4:3
Pixel Size	4.6 μm
Sensor Size	54 x 40 mm
Sensitivity	50 - 12800 ISO
Filter Options	Bayer Pattern or Monochrome
Extended Spectral Response (Monochrome Only)	380 - 1000 nm

Shutter

Type	Mechanical Leaf Shutter or Electronic Rolling Shutter
Shutter Speed Range	1/2500 second with Leaf Shutter 1/4000 second with Electronic Shutter
Strobe Sync	1/1600 second with Leaf Shutter
Mechanical Shutter Durability	Warrantied up to 1,000,000 Actuations, Replaceable

Lenses

Focal Lengths	32mm, 40mm, 50mm, 70mm, 90mm, 110mm, 150mm
Field of View Coverage	20° - 80°
Profile Corrections	Pre-loaded, correction for vignetting, chromatic aberration, and distortion

Controls, Interface, and Data

Computer Interface Format	USB 3.0 or Firewire 800
Dedicated Quick Adjustment Interface	3.2" Touch Screen
Sensor Live View	1920 x 1080 at 30fps, 1290 x 720 at 60fps
Full Acquisition Cycle Time	1.6 seconds
File Compression	100MB Lossless RAW
Output Formats	RAW (.IIQ), TIFF, JPG
Dedicated Capture Software	Capture One
SDK for Custom Application Programing	Yes

Operating Information

Power Input	12 - 30 V DC
Weight (Sensor in Housing)	2 lbs
Operating Conditions	14 - 104 ° F
ROHS Compliant	Yes
Other Compliancies	FCC Class A, CE (EU)