2020 Prelaunch



End-Users. Resellers. OEMs.

You Have to Know the Difference to Make the Difference

MACHCAM71_{v2}

Crowley's Next Generation 71MP Camera for Machine Vision, Industrial and Forensic Applications



Discover the details when you see the difference **71 megapixels** can make.



When it's the details that define pass or fail, the **MACHCAM 71MPv2** allows for clarity in a large field of view, reducing or even eliminating the need to stitch multiple images together to get the big picture.

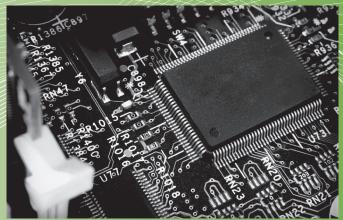
Industry applications:

- LCD/PCB Inspection
- Aerial Imaging
- Packaging and Inspection
- Military/Law Enforcement/Security
- Scientific Imaging
- Quality Control
- Document Examination
- More

Key features include:

- Small camera case for easy physical integration
- USB 3.0 compatible

- Software development kit (SDK)
- GenlCam interface (with Camera Link option)
- External trigger
- Pixel correction
- Available in monochrome or color
- F-mount standard; other mounts available



Large field of view allows for review of the finest details without image stitching

ABOUT THE MACHCAM 71 V2 CAMERA IMAGE SENSOR

Value

10000 x 7096 active pixels

After exhaustive research, The Crowley Company chose the CHR71000 for implementation into the MACHCAM 71v2C (RGB color) and MACHCAM 71v2M monochrome cameras. Produced by CMOSIS, these sensors provide an excellent base for Crowley's high-end industrial, forensic and machine vision cameras.

SENSOR SPECIFICATIONS

Specification

Pixel count

Pixel Size 3.1 x 3.1 µm2
Optical Format 35mm
Active image size 31x22mm

Shutter Type Electronic rolling shutter with true CDS correction

Frame Rate 3 fps at full resolution

Sensitivity
O.88 V/lux.s
Conversion Gain
64 uV/eFull Well Charge
13000 eDark Noise
7 e- (RMS)
Dynamic Range
SNR Max
41.1 dB

Dark Current
3.2 e-/s (25 degC)
Fixed Pattern Noise
Chroma
3.2 e-/s (25 degC)
< 0.09% of full swing)
Mono and RGB color

Operating Temperature Range 0 to +60 degC



Drone photo using the MACHCAM 71 courtesy of Transparent Sky, LLC



Detailed capture via the MACHCAM 71 customdesigned into ID Scientific's Truelmage M1000 document examination platform

CAMERA SPECIFICATIONS

Housing size $4.25 \times 4.25 \times 2$ in./110 x 110 x 50 mm

Interface Options

• USB 3.0 compatible (external frame grabber not required)

■ Camera Link

Software development kit, DLL Included

A/D Bits 12 bits

Voltage/Power 12V DC/~10 watts nominal

Weight 1.34 lbs./608 grams

F-mount standard Custom mount upon request

Compliance RoHS; REACH

Contact your Crowley representative for product warranty information

CUSTOM SOLUTIONS: The Crowley Company offers custom solutions to MACHCAM 71 v2 integration, packaging and technical support. Ask your representative for more details or call (240) 215-0224 (US).

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