

You Have to Know the Difference to Make the Difference

Introducing Crowley's 71MP Machine Vision Camera

or more than three decades, The Crowley Company has successfully operated worldwide as a unique blend of engineer, manufacturer and micrographic and digital archiving authority. We know cameras. We know resolutions. We know image clarity. We know imaging specifications.

In an exciting new development, The Crowley Company has designed the programmable features of the CHR70M sensor into two easily-implemented 71MP custom machine vision cameras: the **MACHCAM 71C** and the **MACHCAM 71M**. The goal? To produce clear images with the highest resolutions available on the market today for a wide variety of industry applications.

ABOUT THE MACHCAM 71 SERIES

- MACHCAM 71C RGB color camera
- MACHCAM 71M Monochrome (grayscale)

Key Features:

- Designed with a small camera case for easy integration into existing imaging products (economy of scale)
- Meets the preservation imaging guidelines of NARA (National Archives and Records Administration), Metamorfoze and FADGI (Federal Agencies Digitization Guidelines Initiative)
- USB 3.0 compatible
- Software Development Kit (SDK) included
- Internal trigger mode
- F-mount standard

INDUSTRY APPLICATIONS

Archival Scanning (Documents and Micrographics)

CROWLE

- LCD/PCB Inspection
- Aerial Imaging
- Scientific Imaging
- Medical Imaging
- Aeronautics
- Packaging and Inspection
- Transportation
- Law Enforcement
- Military
- More

ABOUT THE MACHCAM 71 MEGAPIXEL CAMERA IMAGE SENSOR

Value

70MP

35mm

31x22mm

0.88 V/lux.s

64 uV/e-

13000 e-

41.1 dB

7 e- (RMS) 63 dB

3.1 x 3.1 µm2

3 fps at full resolution

3.2 e-/s (25 degC)

< 0.09% of full swina)

After exhaustive research, The Crowley Company chose the CHR70M, the world's highest resolution CMOS image sensor, for implementation into the MACHCAM 71C and MACHCAM 71M. Produced by CMOSIS, these sensors provide an excellent base for Crowley's high-end machine vision cameras.

SENSOR SPECIFICATIONS

Specification

Resolution Pixel Size **Optical Format** Active image size Shutter Type Frame Rate Sensitivity **Conversion Gain** Full Well Charge Dark Noise Dynamic Range SNR Max Dark Current **Fixed Pattern Noise** Chroma **Operating Temperature Range RoHS** compliance

CAMERA SPECIFICATIONS

Housing size Pixel count USB 3.0 compatible Software development kit, DLL A/D Bits Voltage/Power Weight F-mount standard

ABOUT CROWLEY

Mono and RGB 0 to +60 degC Yes 3.25 x 3.25 x 2.5"/83 x 83 x 63.5 mm 10000 x 7096 active pixels External frame grabber not required Included 12 bits

Electronic rolling shutter with true CDS correction

12V DC/~10 watts nominal 1.39 lbs./630 grams Custom mounts upon request

The Crowley Company is a world-leader in digital and analog film technologies, providing an extensive number of digital document and film conversion equipment and services worldwide. The four divisions of the company include manufacturing, distribution, technical support and conversion services. Offices are located in Frederick, Md., San Dimas, Ca. and Basingstoke, U.K.

Rev 08/16



