

MVIA, Inc 125 Sherwood Dr Monaca, PA 15061 Phone: 724-728-7493

Email: info@mvia.com Website: www.mvia.com





My GOWNER

MICROCAM 5.0 & 3.3 RTV

High Resolution IEEE 1394 FireWire™ Digital CCD Color Camera with High Speed Real-Time Viewing

The MVIA MicroCam with Real Time Viewing (RTV) delivers unsurpassed interactivity and productivity by combining ultra high resolution images with video-like, full field of view frame rates of up to 30fps. Scanning, framing and focusing have never been easier than with the MicroCam RTV. The 30-bit color digitization produces high quality images of brightfield, dark-field and fluorescence work. For demanding low-light applications, the MicroCam RTV Cooled minimizes thermal noise during long exposure times. With an IEEE 1394 FireWire™ digital interface the MicroCam RTV is easy to install, requiring a single wire to connect the camera to a computer or laptop. The MicroCam RTV eliminates expenses, installation problems and inconveniences associated with framegrabbers and external power supplies. All cameras ship with Image Capture software. Large selections of specialty software applications are available from MVIA software partners and a Software Development Kit (SDK) is available upon request for interfacing the MicroCam RTV





Note: Microscope is shown for illustration only and is not included.

CAMERA MODELS

with custom software.

Includes: IEEE 1394 FireWire™ cable, IEEE 1394 PCI card, Capture software, Adobe Photoshop Elements, and access to SDK

- MicroCam 5.0 RTV Cooled
 Model: MC5.0-RTV-CLR-10-C
 CCD Digital Camera, Color,
 30-bit with Peltier Cooling
- MicroCam 5.0 RTV Non-cooled Model: MC5.0-RTV-CLR-10
- CCD Digital Camera, Color, 30-bit
 MicroCam 3.3 RTV Cooled
- Model: MC3.3-RTV-CLR-10-C
- MicroCam 3.3 RTV Non-cooled

Model: MC3.3-RTV-CLR-10

FEATURES

High Resolution
5 or 3.3 Million pixel sensor

Flexible Exposure Control

from 1.6ms to 17.9min

Real-Time Viewing

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■ Highly detailed, sharp images suitable for publication

■ Previewing & focusing in real time

■ 30fps full field of view with MicroCam 3.3 RTV

■ 25fps full field of view with MicroCam 5.0 RTV

■ Optimal integration over a wide range of light levels

Peltier Cooling

■ Minimizes thermal noise during low light imaging

ROI (Region Of Interest)

■ Higher frame rates for previewing & focusing

Binning

■Increased sensitivity for quantitation & imaging of very low light levels

■ Increased frame rate

BENEFITS

IEEE 1394 FireWire

- Simple connectivity
- Ease of use & installation
- Portability with laptop computer
- Simultaneous use of multiple cameras through a single port
- Single cable operation, no external power supply or control unit

Extensive third party software support

Choose from a large selection of life science & industrial software for microscopy, machine vision and video streaming applications.

MICROCAM 5.0 & 3.3 RTV SPECIFICATIONS

APPLICATIONS

High resolution still images for publication, documentation, and archiving in:

- Brightfield, Phase Contrast and Dark-field Microscopy
- Fluorescence Microscopy
- Pathology
- Histology
- Cytology
- Haematology
- Document Imaging
- Still Image Animation

CCD SENSOR	
Light Sensitive Pixels MicroCam 5.0 RTV MicroCam 3.3 RTV	5 million; 2560 x 1920 3.3 million; 2048 x 1536
Binning Modes	2x2, 3x3, 4x4 in full color
ROI (Region Of Interest)	From 1x1 pixels up to full resolution, continuously variable in single pixel increments
Exposure/Integration Control	1.6ms to 17.9min in 1µs increments
Sensor Type MicroCam 5.0 RTV MicroCam 3.3 RTV	Sony ICX282 Progressive Scan Interline CCD, Color Sony ICX252 Progressive Scan Interline CCD, Color
Pixel Size MicroCam 5.0 RTV MicroCam 3.3 RTV	3.4µm x 3.4µm 3.45µm x 3.45µm
Cooling Available	Yes
Cooling Type	Peltier thermoelectric cooling to 10 degrees Celsius below ambient
Digital Output	10-bit
Readout Frequency	20, 10, 5, 2.5MHz
Frame Rate MicroCam 3.3 RTV MicroCam 5.0 RTV	30fps full field of view, higher fps with ROI functions 25fps full field of view, higher fps with ROI functions
CAMERA	
Computer Platform/Operating System	Microsoft Windows® & Mac® OS*
Digital Interface	IEEE 1394 FireWire™
Shutter Control	Electronic shutter, no moving parts
Trigger Types	Internal, Software
Optical Interface MicroCam 5.0 RTV MicroCam 3.3 RTV	2/3", C-Mount optical format 1/2", C-Mount optical format
Threadmount	1/4"-20 Mount
Power Requirements	3.8 watts non-cooled; 6.7 watts cooled; 8-24V
Weight	710g
Warranty	2 years
Operating environment	0 to 35 degrees Celsius (32 to 95 F)
Humidity	Less than 80% at 35 degrees Celsius (95F)
*Refer to MVIA website for detailed listing of supported operating systems.	

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