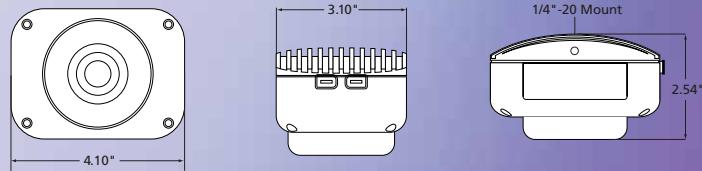# MICROPUBLISHER 5.0 & 3.3 RTV – COOLED OR NON-COOLED

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

The **QImaging MicroPublisher 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 up to 30fps. Scanning, framing, and focusing have never been easier than with the MicroPublisher RTV. The 30-bit color digitization produces high-quality images of brightfield, darkfield, and fluorescence work. For demanding low-light applications, the MicroPublisher RTV Cooled camera minimizes thermal noise during long exposure times. With an IEEE 1394 FireWire™ digital interface, the MicroPublisher RTV is easy to install, requiring a single wire to connect the camera to a computer or laptop. The MicroPublisher RTV eliminates expenses, installation problems, and inconveniences associated with framegrabbers and external power supplies. All cameras ship with image-capture software. A large selection of specialty software applications is available from QImaging's software partners. A **Software Development Kit (SDK)** is available upon request for interfacing the MicroPublisher RTV with custom software.

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

CAMERA MODELS	FEATURES	BENEFITS
*Includes: **IEEE 1394 FireWire™ cable, IEEE 1394 PCI card, QCapture software, QCapture Pro software, & access to SDK***	**High-Resolution, 5- or 3.3-Million-Pixel Sensor**	▪ Highly detailed, sharp images suitable for publication
	Real-Time Viewing (RTV)	▪ Previewing & focusing in real time ▪ 30fps (full field of view) with MicroPublisher 3.3 RTV ▪ 25fps (full field of view) with MicroPublisher 5.0 RTV
▪ **MicroPublisher 5.0 RTV Cooled** 　Model: MP5.0-RTV-CLR-10-C 　CCD Digital Camera, Color, 　30 Bits with Peltier Cooling	**Flexible Exposure Control from 1.6ms to 17.9min**	▪ Optimal integration over a wide range of light levels
	Peltier Cooling	▪ Minimizes thermal noise during low-light imaging
▪ **MicroPublisher 5.0 RTV Non-Cooled** 　Model: MP5.0-RTV-CLR-10 　CCD Digital Camera, Color, 30 Bits	**ROI (Region of Interest)**	▪ Higher frame rates for previewing & focusing
	Binning	▪ Increases sensitivity for quantitation & imaging of very low light levels ▪ Increases frame rate
▪ **MicroPublisher 3.3 RTV Cooled** 　Model: MP3.3-RTV-CLR-10-C	**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)
▪ **MicroPublisher 3.3 RTV Non-Cooled** 　Model: MP3.3-RTV-CLR-10	**Extensive Third-Party Software Support**	▪ Choose from a large selection of life science & industrial software for microscopy, machine vision, & video-streaming applications

MICROPUBLISHER 5.0 & 3.3 RTV SPECIFICATIONS

CCD SENSOR

Light-Sensitive Pixels	
MicroPublisher 5.0 RTV	5 million real pixels; 2560 x 1920
MicroPublisher 3.3 RTV	3.3 million real pixels; 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	
MicroPublisher 5.0 RTV	Sony® ICX282 progressive-scan interline CCD (color)
MicroPublisher 3.3 RTV	Sony® ICX252 progressive-scan interline CCD (color)
Pixel Size	
MicroPublisher 5.0 RTV	3.4μm x 3.4μm
MicroPublisher 3.3 RTV	3.45μm x 3.45μm
Cooling Available	Yes (optional)
Cooling Type	Peltier thermoelectric cooling to 10°C below ambient
Digital Output	10 bits
Readout Frequency	20, 10, 5, 2.5MHz
Frame Rate	
MicroPublisher 3.3 RTV	30fps full field of view (higher fps with ROI functions)
MicroPublisher 5.0 RTV	25fps full field of view (higher fps with ROI functions)

CAMERA

Computer Platforms/Operating Systems	Windows® & Mac OS*
Digital Interface	IEEE 1394 FireWire™
Shutter Control	Electronic shutter, no moving parts
Trigger Types	Internal, Software
Optical Interface	
MicroPublisher 5.0 RTV	2/3", C-mount optical format
MicroPublisher 3.3 RTV	1/2", C-mount optical format
Threadmount	1/4" — 20 mount
Power Requirements	3.8W (non-cooled); 6.7W (cooled); 8-24V
Weight	710g
Warranty	2 years
Operating Environment	0 to 35°C (32 to 95°F)
Humidity	Less than 80% non-condensing at 35°C (95°F)

Refer to QImaging website for detailed listing of supported operating systems.
Note: Specifications are nominal and subject to change.

ISO 9001:2000

QMI REGISTERED

04-0015A-C

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