



HIGH PERFORMANCE DIGITAL IMAGING
made easy

MICROPUBLISHER 5.0 & 3.3 RTV

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 of 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, dark-field and fluorescence work. For demanding low-light applications, the MicroPublisher RTV Cooled 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. Large selections of specialty software applications are available from QImaging software partners and 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

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

MicroPublisher 5.0 RTV Cooled

Model: MP5.0-RTV-CLR-10-C
CCD Digital Camera, Color, 30-bit with Peltier Cooling

MicroPublisher 5.0 RTV Non-cooled

Model: MP5.0-RTV-CLR-10
CCD Digital Camera, Color, 30-bit

MicroPublisher 3.3 RTV Cooled

Model: MP3.3-RTV-CLR-10-C

MicroPublisher 3.3 RTV Non-cooled

Model: MP3.3-RTV-CLR-10

FEATURES

High Resolution
5 or 3.3 Million pixel sensor

Real-Time Viewing

Flexible Exposure Control
from 1.6ms to 17.9min

Peltier Cooling

ROI (Region Of Interest)

Binning

IEEE 1394 FireWire

Extensive third party software support

BENEFITS

- Highly detailed, sharp images suitable for publication

- 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

- Optimal integration over a wide range of light levels

- Minimizes thermal noise during low light imaging

- Higher frame rates for previewing & focusing

- Increased sensitivity for quantitation & imaging of very low light levels
- Increased frame rate

- 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

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



MICROPUBLISHER 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	MicroPublisher 5.0 RTV MicroPublisher 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	MicroPublisher 5.0 RTV MicroPublisher 3.3 RTV	Sony ICX282 Progressive Scan Interline CCD, Color Sony ICX252 Progressive Scan Interline CCD, Color
Pixel Size	MicroPublisher 5.0 RTV MicroPublisher 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	MicroPublisher 3.3 RTV MicroPublisher 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	MicroPublisher 5.0 RTV MicroPublisher 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 QImaging website for detailed listing of supported operating systems.
Note: Specifications are nominal and subject to change.

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