

MicroPublisher 5.0 & 3.3 RTV

High-Resolution IEEE 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.

High-Resolution, High-Speed Real-Time Viewing



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

| features | benefits |
|---|--|
| High-Resolution, 5- or 3.3-Million-Pixel Sensor | <ul style="list-style-type: none"> Highly detailed, sharp images suitable for publication |
| Real-Time Viewing (RTV) | <ul style="list-style-type: none"> 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 |
| Flexible Exposure Control from 1.6ms to 17.9min | <ul style="list-style-type: none"> Optimal integration over a wide range of light levels |
| Peltier Cooling | <ul style="list-style-type: none"> Minimizes thermal noise during low-light imaging |
| ROI (Region of Interest) | <ul style="list-style-type: none"> Higher frame rates for previewing & focusing |
| Binning | <ul style="list-style-type: none"> Increases sensitivity for quantitation & imaging of very low light levels Increases frame rate |
| IEEE 1394 FireWire™ | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> Choose from a large selection of life science & industrial software for microscopy, machine vision, & video-streaming applications |

| applications | |
|--|---|
| High-resolution still images for publication, documentation, and archiving in: | <ul style="list-style-type: none"> Brightfield, Phase-Contrast, & Darkfield Microscopy Fluorescence Microscopy Pathology, Histology, Cytology Hematology Document Imaging Still-Image Animation |

MicroPublisher 5.0 & 3.3 Specifications

ccd sensor

| | | |
|------------------------------|--|--|
| Light-Sensitive Pixels | MicroPublisher 5.0 RTV MicroPublisher 3.3 RTV | 5 million real pixels; 2560 x 1920 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 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 (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 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

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| Computer Platforms/ Operating Systems | | Windows® 7, Vista and XP (32/64 bit) |
| 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 | | 3.8W (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) |

camera models

Includes: IEEE 1394 FireWire™ cable, IEEE 1394 PCIe card, QCapture software, QCapture Pro software and access to SDK

■ MicroPublisher 5.0 RTV Cooled

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

■ MicroPublisher 5.0 RTV Non-Cooled

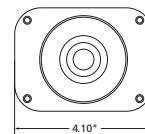
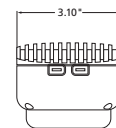
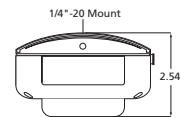
Model: MP5.0-RTV-R-CLR-10
CCD Digital Camera, Color, 30 Bits

■ MicroPublisher 3.3 RTV Cooled

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

■ MicroPublisher 3.3 RTV Non-Cooled

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



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

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