

MICROCAST PRO Technical Specifications

MICROCAST® 4K PRO

Microscope/lens Interface: Industry standard c-mount

Image Sensor: 3CMOS with RGB beam splitting prism

4K Resolution: 3840x2160 pixels

HD Resolution: 1920x1080 pixels

Frame Rate: 60 frames per second

Scan Mode: Progressive (non-interlaced)

Exposure: Automatic/Manual

Shutter Speed: 1/10,000 – ¼ seconds

White Balance: Automatic/Manual

A/D Bit Depth: 12bit

Color: 10bit

S/N: 58db

Definable User Presets: 4

4K Video Outputs:

- HDMI 2.0
- 12G-SDI
- 4 Channel 3G-SDI

HD Video Outputs:

- DVI
- 3G-HDSI

Dimensions/Weights:

Camera Head: W34mm x H40mm x D40mm/100g or less

Camera Control Unit: W210mm x H80mm x D270mm/3kg or less

MICROCAST® HD PRO

Microscope/lens Interface: Industry standard c-mount

Image Sensors: 3 x CMOS HD

Resolution: 1920 x 1080 pixels

Frame Rate: 60 FPS

Scan Mode: Progressive (non-interlaced)

Exposure: Automatic / Manual

Shutter Speed: 1/60-1/10,000sec

White Balance: Automatic / Man

User Definable Presets: 4

A/D Bit Depth: 12bit

Color: 10bit

S/N: 54db

Sensitivity: 2000 lx f10

HD Video Outputs:

- 2 x DVI-D
- 2 x HD-SDI

Analog Video:

- 1 x Composite
- 1 x S-video

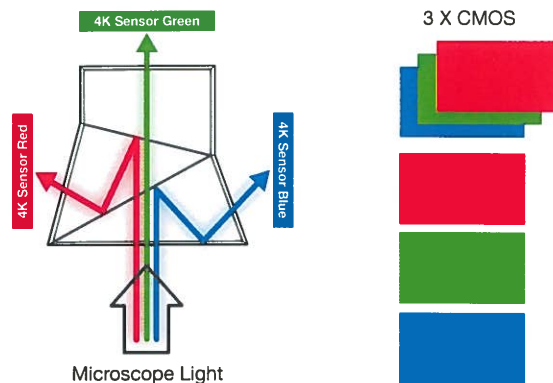
Dimensions/Weights:

Camera Head: W34mm x H40mm x D40mm 100g or less

Camera Control Unit: W170mm x H58mm x D200mm 3kg or less

MICROCAST PRO 3CMOS Sensors

Each sensor of the MICROCAST PRO 3CMOS prism generates 1 primary color - red, green and blue, generating clinical quality color fidelity and 3X the spatial resolution of 1CMOS Systems.



Warranty: MICROCAST PRO Video Cameras are covered by an industry leading 3 year warranty.



Regulatory: FDA listed Class I medical device

Standards:

- UL60601-1, Medical Electrical Equipment, First Edition
- CSA C22.2 No. 601.1, Medical Electrical Equipment, R2005 Edition

Your Imaging Consultant:



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* Features/specifications may not apply to all camera models and are subject to change without notice.

OPTRONICS®

MICROCAST® PRO

Immersive Digital Video Microscope Camera Systems



Enhance Collaboration - Staff Engagement - Save Time - Reduce Costs - Increase Operational Efficiencies

A Professional Visual Experience

MICROCAST PRO technical video systems broadcast an immersive instantaneous microscope imaging experience.

- Enhance collaboration
- Save time
- Reduce cost
- Increase operational efficiency

4K Ultra High Definition & Full HD

MICROCAST® 4K PRO 2160p



MICROCAST® HD PRO 1080p



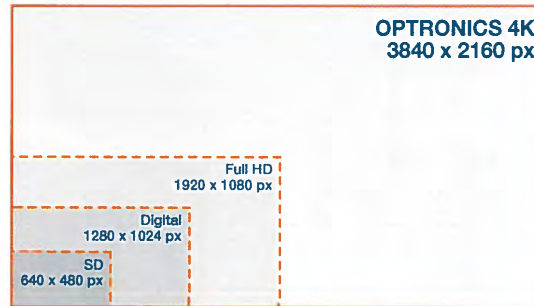
From the Oculars to the Big Screen

- Experience cinema quality digital video from your microscope in real-time.
- Simple, intuitive video systems, enable you to focus on your work most important work not the camera.
- Relaxed ergonomic engaging visualization to the largest video displays or projectors.

Microscope Ocular Realism On Display

Our systems deliver lifelike medical video quality. Experience clarity and detail with microscope ocular realism like never before.

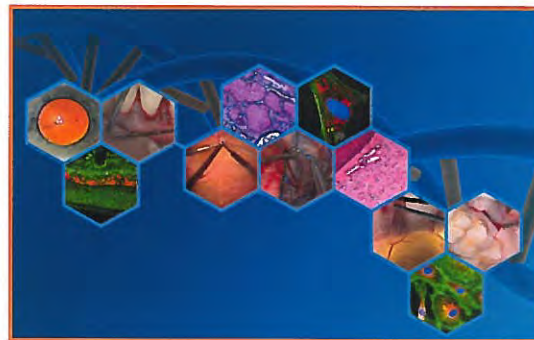
4K = 4X the Resolution of HD



A Critical Link in Your Imaging Chain

All the resolution and speed with no delay and no computer required. MICROCAST PRO camera systems are compatible with most brands of microscopes.

- Brightfield, Darkfield, and Fluorescent Imaging Capable



A Cost Effective Investment

- Upgrade your existing microscope, saving your organization an unnecessary capital expense.
- Universal connectivity ensures that your 4K investment today will be compatible with the hottest emerging 4K video peripherals tomorrow.

Automatic or Manual Imaging Control

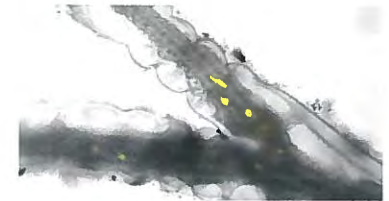


MICROCAST Color Enhancement

MICROCAST 4K PRO provides user defined independent hue and saturation control on both Primary and Secondary colors ensuring the image in the oculars is precisely what's on display.

Real-time 6 Channel Color Control

- Red
- Green
- Blue
- Cyan
- Yellow
- Magenta



Real-time Image Processing Utility

- 1-Button Automatic White Balance
- Spot Metering with Adjustable Peak Modes
- Low Light Capable Integrating Shuttering System
- Multiple Programmable User Settings
- Digital Image Freeze
- Digital Image Zoom
- Digital Image Flip and Rotate

MICROCAST PRODUCER

Learn how to edit your microscopy videos from our video editing PRO's.

- Record procedures in full HD & 4K video at 60fps
- Trim, cut and reorder
- Annotate & narrate
- Incorporate media into captivating presentations

Your Professional Edited Video Advantage

- Teach & engage students and staff
- Educate your patients
- Take your powerful media-rich presentations with you on-the-go