Video Capillaroscope
for examination of microcirculation

Product data sheet

Optilia Video Capillaroscopy features state-of-the-art digital imaging system with integrated illumination and dedicated user-friendly image capture, analysis and reporting software for nailfold capillaroscopy. Designed for reliable and flexible examination of micro circulation abnormalities that may lead to disease like Reynaud’s phenomenon, systematic sclerosis and digital ulcer.

Optilia high resolution capillaroscopy lenses with contact and non-contact adaptors provide sharp and detailed images with accurate colour representation at 100x, 200x and 300x magnification. Optilia Capillaroscope is light-weight mobile and can be used on all areas of skin.

Product matrix:

- **OP-120 011**, Mediscope Digital, video microscope (USB-interface)
- **OP-120 126**, Immersion oil dropper
- **OP-120 147**, Notebook or PC, configured with Mediscope and OptiPix Capillaroscopy software
- **OP-120 125**, Non-contact focusing stand
- **OP-120 230**, Mobile ergonomic workstation for PC or Laptop
- **OP-120 129**, Aluminum transport case
- **OP-120 110**, Contact adapter for 200x lens
- **OP-120 104**, 300x lens with immersion fluid adapter
- **OP-120 117**, Non-contact adapter for 200x lens
- **OP-120 115**, 200x lens with immersion fluid contact adapter
- **OP-120 112**, Contact adapter for 100x lens
- **OP-120 111**, Contact adapter for 200x lens
- **OP-120 105**, 100x lens with immersion fluid contact adapter
- **OP-120 116**, Non-contact adapter for 200x lens
- **OP-120 114**, 100x lens with immersion fluid contact adapter
- **OP-120 106**, 300x lens with immersion fluid adapter
- **OP-120 113**, Contact adapter for 300x lens
- **OP-006 369**, USB image capture foot switch for OptiPix
- **OP-120 120**, OptiPix Capillaroscopy Lite, image view, capture & on-screen measurement software
- **OP-120 201**, Mediscope Digital, video microscope (USB-interface)
- **OP-120 202**, OptiPix Capillaroscopy Research, Advanced Body mapping and NVC examination with Patient database for journal, follow-up and reporting
- **OP-120 200**, Atlas of capillaroscopy in rheumatic diseases, M. Cutolo
Technical specification:

Image Sensor
- 1/2.5" CMOS, 5.0 Mp (5 million pixels)
- 2592H x 1944V pixels (factory set 2048H x 1536V pixels)
- pixel size: 2.2 µm x 2.2 µm
- Interface: USB 2.0
- Frame Rate: 9 fps @ 2048x1536 (3MP), 13 fps @ 1920x1080 (1080p) and 1600x1200 (2MP) resolution
- Programmable Controls: sensitivity, contrast, frame rate and resolution

Illumination
- Built-in RingLight with 12 ultra bright long-life white LEDs and intensity control (dimmer)
- Colour Temperature: Cool white, 8000K (Kelvin)
- Illumination Life Time: 6000 hours (minimum)

Optics
- 20x to 50x magnification varifocal lens with polarised light and polarisation optics
- 100x high resolution objective lens with unpolarised light
- 200x high resolution objective lens with unpolarised light
- 300x high resolution objective lens with unpolarised light

Software
- 3 levels: Capillaroscopy Lite, Capillaroscopy Clinic and Capillaroscopy Research

Field of View
- Field of View at 100x: ~ 3.5 x 2.6 mm (WxH)
- Field of View at 200x: ~ 1.7 x 1.3 mm (WxH)
- Field of View at 300x: ~ 1.1 x 0.8 mm (WxH)
- Field of View at 50x: ~ 7.6 x 5.7 mm (WxH)
- Field of View at 30x: ~ 11.7 x 8.8 mm (WxH)
- Field of View at 20x: ~ 18.1 x 13.6 mm (WxH)

Storage Environment
- -20°C to +60°C, Max 98% RH, non-condensing

Operation Environment
- 0°C to +45°C, Max 95% RH, non-condensing

Power Source
- 5.0 VDC, 450 mA minimum powered via USB port

Size (with lens)
- ~ 155 x 55 x 36 mm (LxHxW)

Weight (without Cable)
- ~ 180 gr.

Weight (with Cable)
- ~ 280 gr.

Mediscope is approved and listed as CLASS 1 medical device

Functional description:

Detachable immersion oil contact adapter

Focus adjustment ring

Image capture switch

On/Off switch and indication LED

Illumination control

USB connection cable

stand mount

300x/200x/100x/20x-50x lens
Pull-out to remove! Push-in to mount!