

Mounted LEDs Lichroma Datasheet

Lichroma is probably the most advanced microscopy light source. Fully wireless controlled using an included tablet, this smart lightning source can generate up to 16 million different colours at the power of your fingertips using a RGBW LED source, revealing hidden features of your samples and obtaining a perfect crystal-clear image. It is an ideal tool to obtain fluorescent images when the excitation filter of your source is missing. More than this, the white light temperature can be adjusted from 2700K to 6500K. Colour temperature of illumination in microscopy is important, and it is often overlooked. Too warm, some features and imperfections blend and can be missed, too cool and they can be bleached out, especially when talking about semiconductors imaging. Also, too warm or too cool might interfere with the DIC prism reducing the contrast. Sometimes, colour temperature is more important than the colour itself. Colour temperature is achieved by changing individual wavelengths of the light's spectrum through Lichroma's simple interface. The intensity of light can be dimmed accurately both for individual colours and for the white light (and in the same time making possible to adjust the white light's temperature). The source has a fanless design and it can be easily adapted on any microscope (please let us know the microscope model that you have at the ordering time).

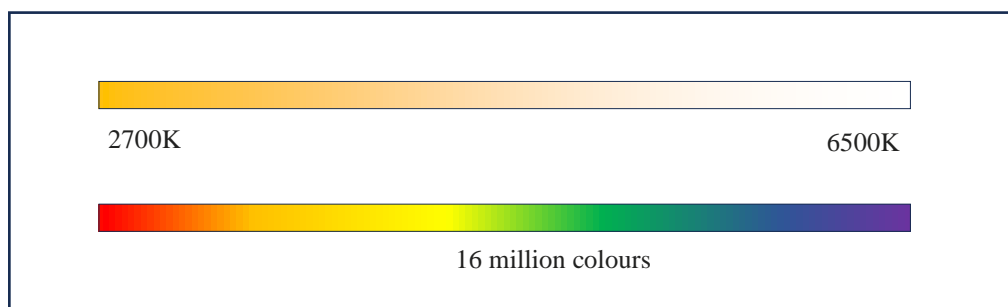
MOUNTED LEDs Ltd

Manchester, M9 7GT

United Kingdom

www.mountedleds.com

enquiry@mountedleds.com



TECHNICAL DETAILS

Aperture: large Ø48.3 mm (1.90")

Control : Smart App (control tablet included)

Compatibility: universal (requires a specific port adapter which will be specified at ordering time)

Luminous flux: 350 lm (adjustable)

White Light Colour temperature: 2700k-6500K (adjustable)

Colours available: 16 million colours

Rated electrical power: 4.5W

Typical Lifetime: 15 000 h

Power requirements: 220-240V/50-60Hz (@50mA)

Operating temperature: -40°C to +50°C

Warranty: 12 months



Mounted LEDs Ltd is a company registered in England and Wales with company number 15302383

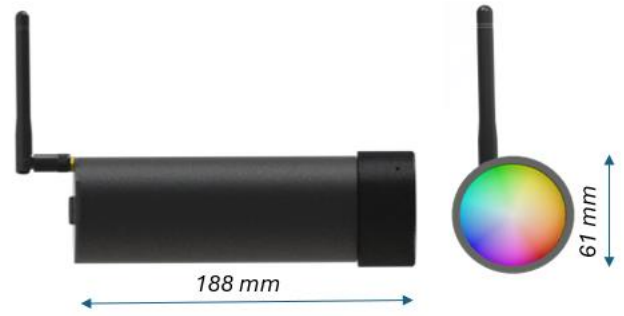
Applications in microscopy imaging:

- Biology, drug discovery, geology, materials science, metallurgy, semiconductors, art, education, pathology, other industrial applications

Dimensions:



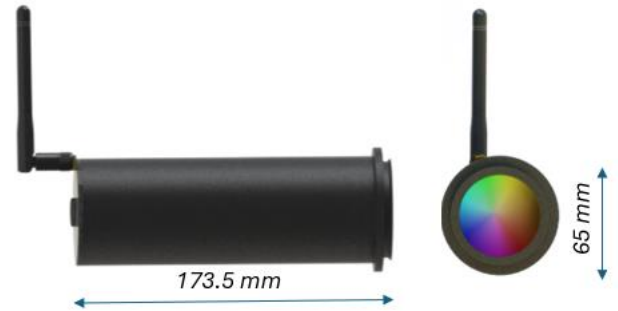
Basic version with SM2 port (ready to receive an adapting port adapter with an SM2 thread)



With Nikon adapter (compatible with Nikon Eclipse (Ti, Ti2, or Upright, LV100, LV200))

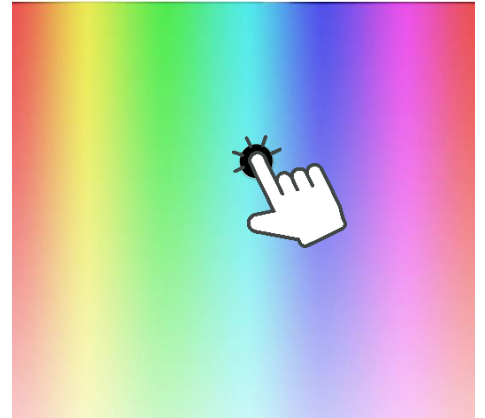
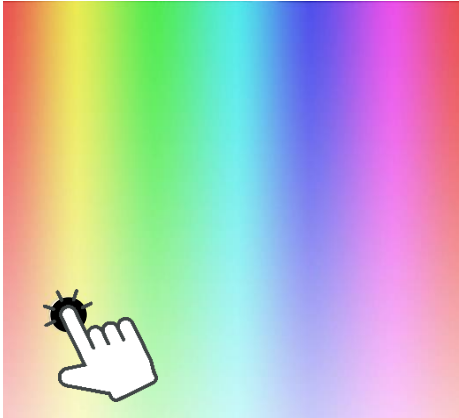
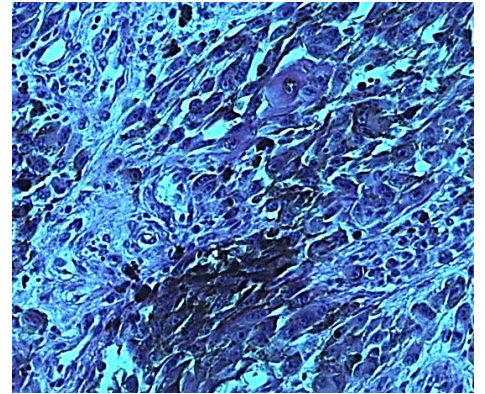
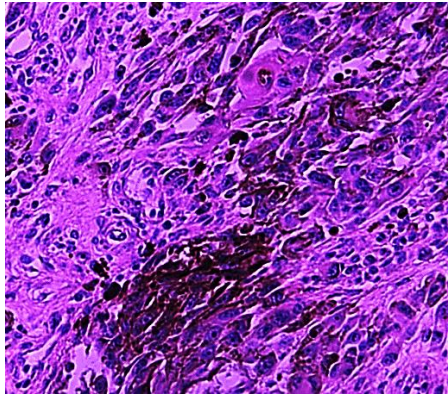
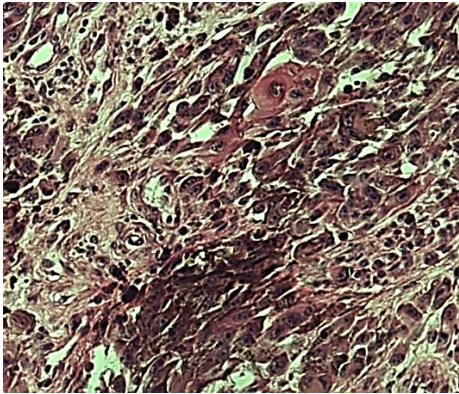


With Olympus adapter (compatible with BX and IX microscopes)

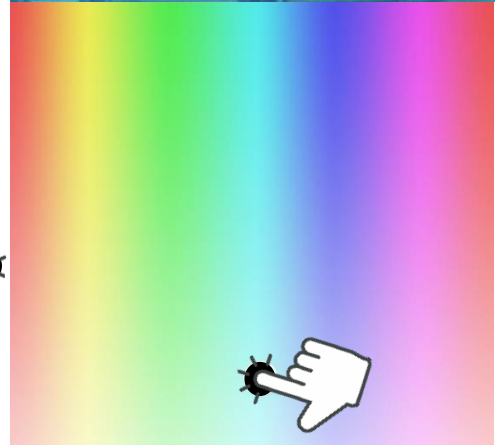
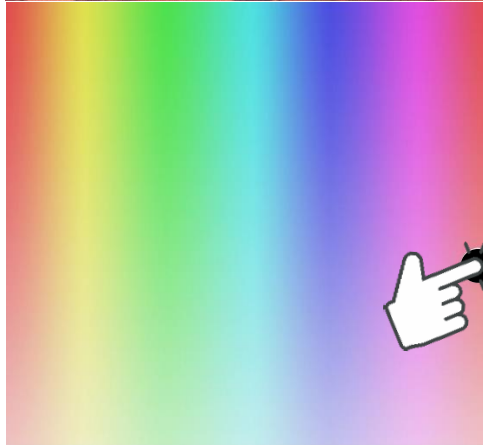
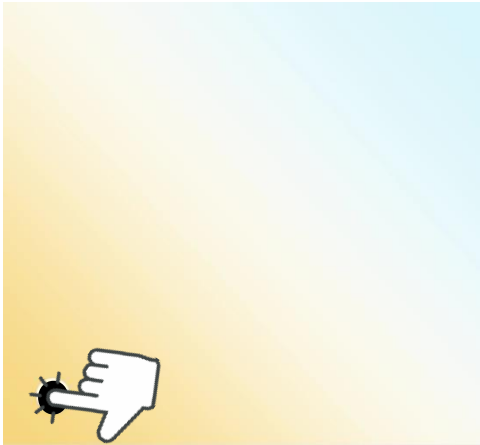
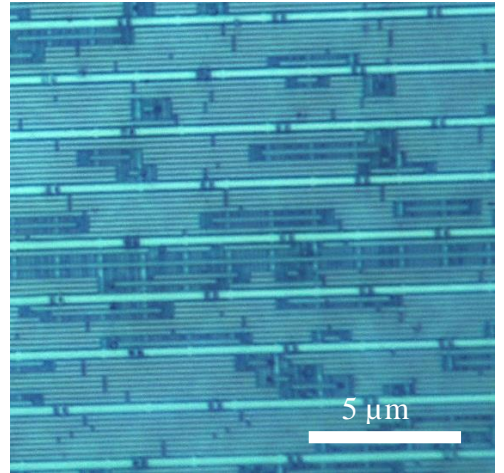
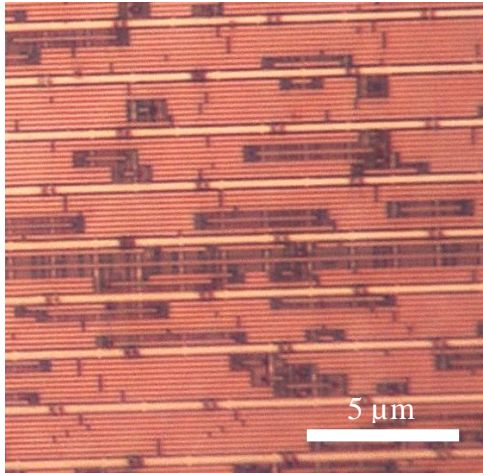
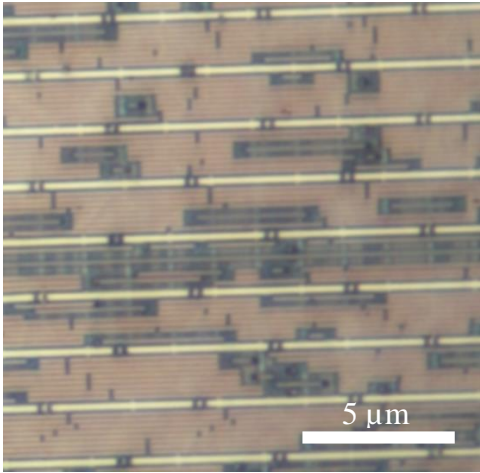


With Zeiss adapter (compatible with Zeiss Axioskop and Examiner Microscopes)

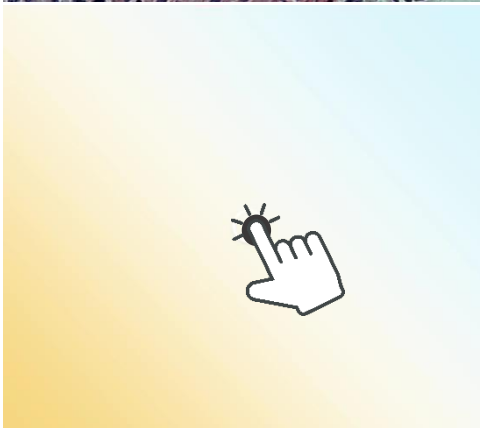
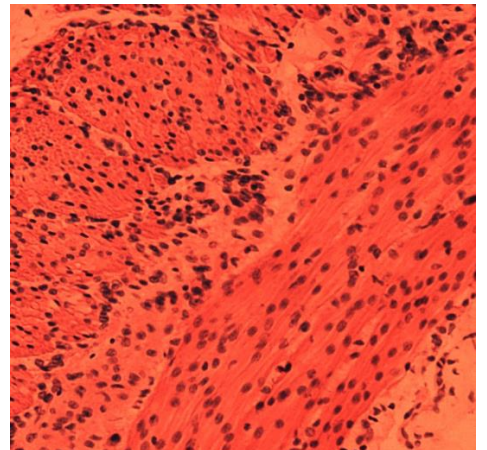
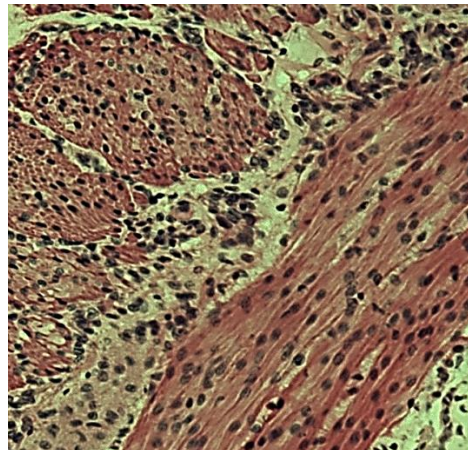
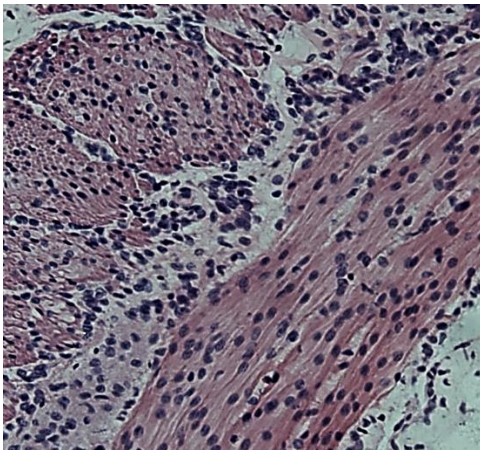
Application Examples



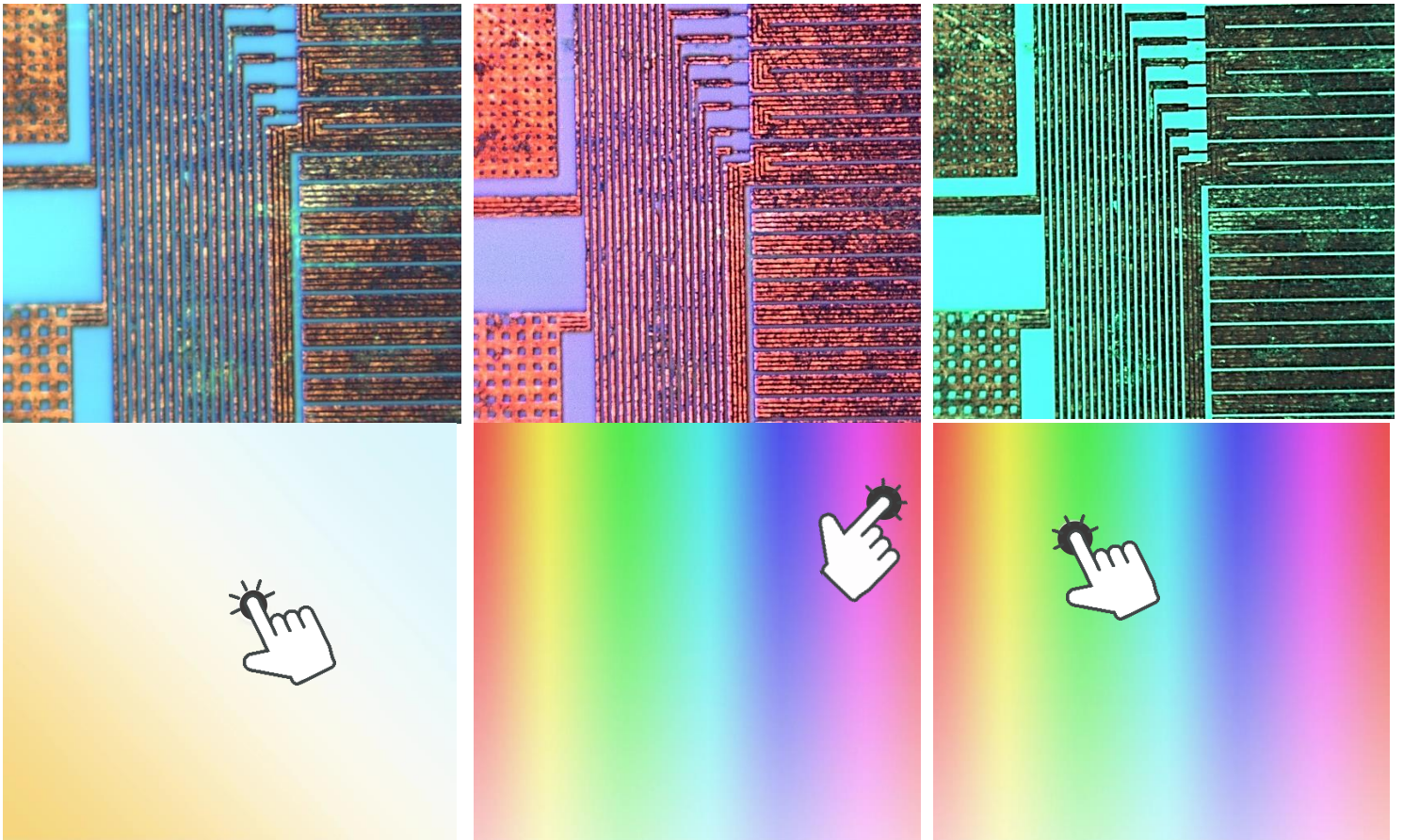
Histopathology sample of malignant melanoma stained with hematoxylin and eosin imaged using Lichroma (tuned at different colours) attached to an Olympus BX51 microscope in transmission mode



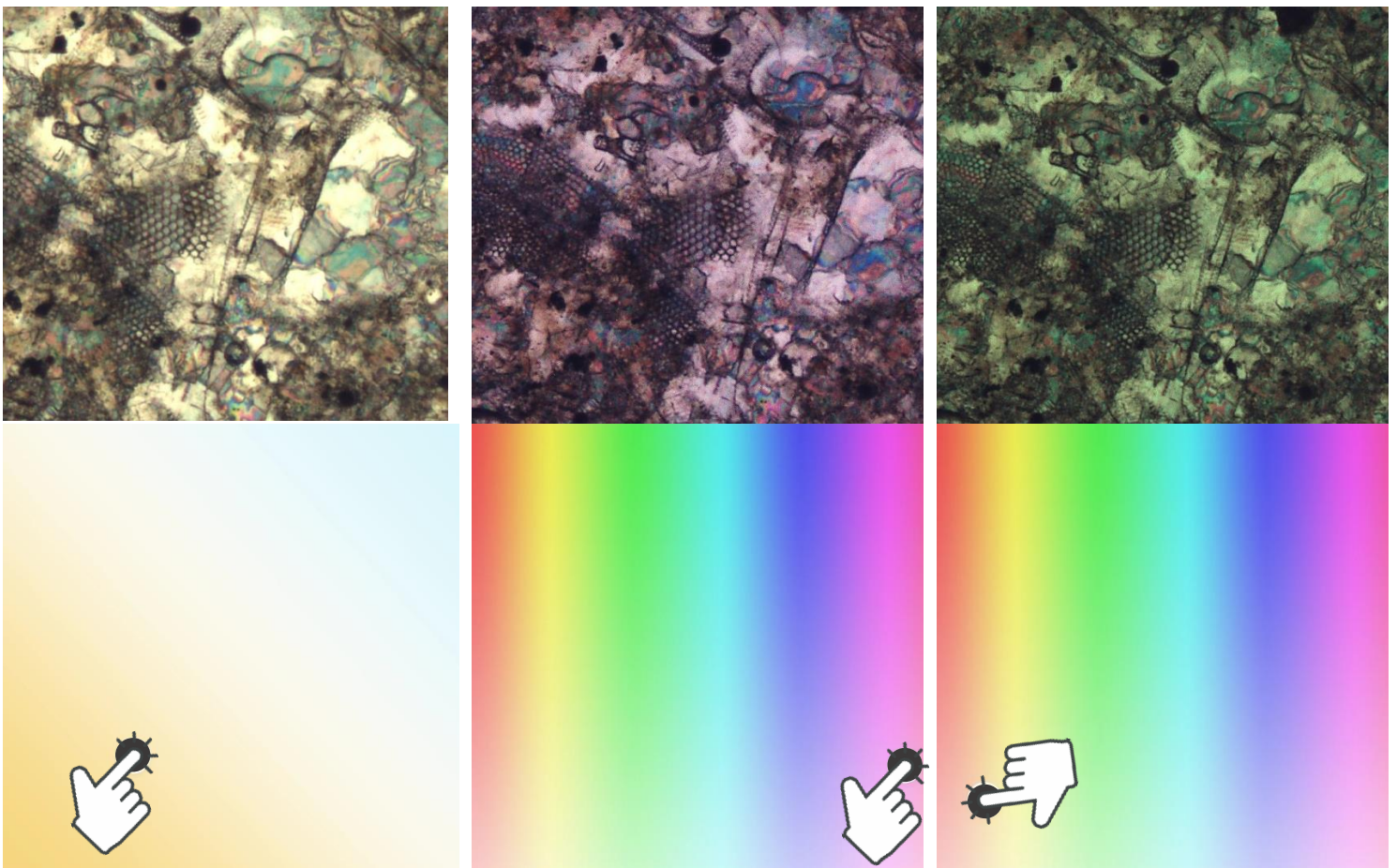
Microprocessor interconnection layer imaging using Lichroma (with white light and two different colours) attached to a Nikon LV 100 microscope in reflection mode



Mammal duodenum stained with hematoxylin and eosin imaged using Lichroma (in white light and two different colours) attached to an Olympus BX51 microscope in transmission mode



Silicon chip imaging in reflection mode using Lichroma (in white light and two different colours) attached to a Nikon LV 100 microscope



Cementstein geological sample from Mors Island (Jutland, Denmark) imaging in transmission mode using Lichroma (in white light and two different colours) attached to an Olympus BX51 microscope (a polariser-analiser setup was used)