



# CICERO

YOUR CONFOCAL JOURNEY STARTS HERE



# Widefield and Spinning Disk Confocal imaging on any microscope

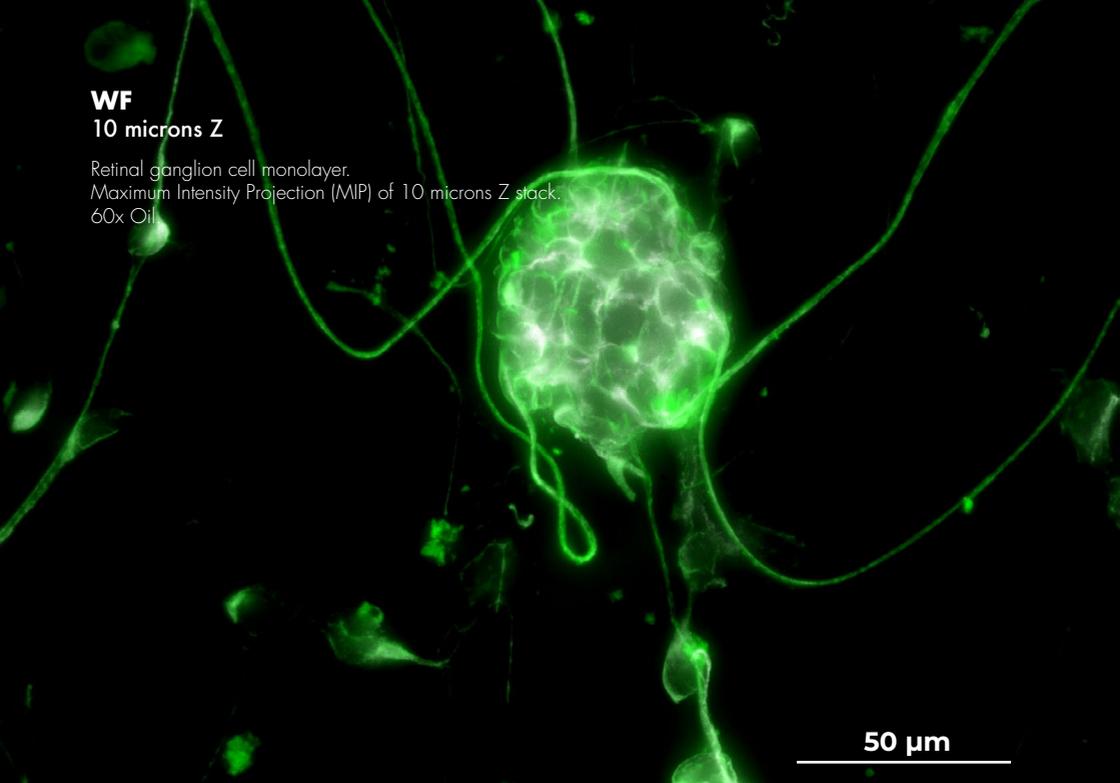
The CICERO is a **complete Widefield (WF) and Spinning Disk Confocal (CF) solution** that can be integrated into any imaging setup, transforming it into an intuitive and reliable confocal system. Life sciences, metrology, and material sciences are among the disciplines relying increasingly on high-resolution 3D imaging.

*“Nature has planted in our minds  
an insatiable longing to see the truth”*

**MARCUS TULLIUS CICERO**

**WF**  
10 microns Z

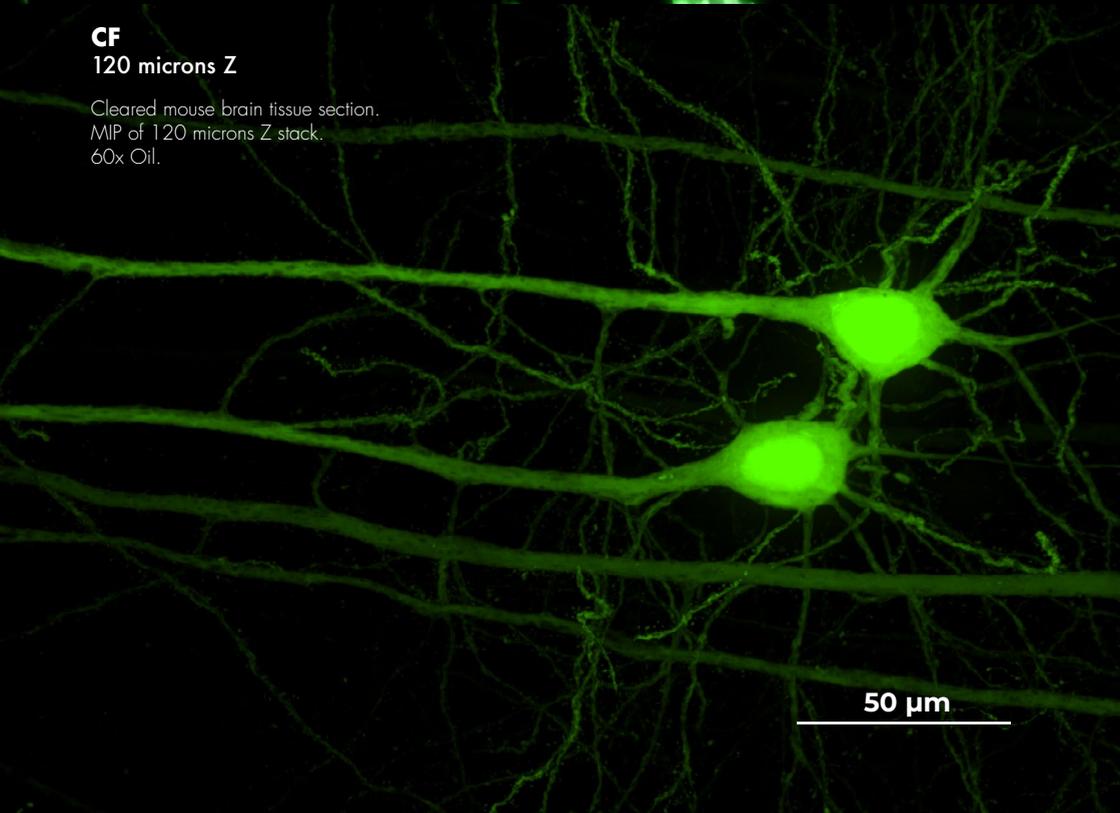
Retinal ganglion cell monolayer.  
Maximum Intensity Projection (MIP) of 10 microns Z stack.  
60x Oil.



50  $\mu$ m

**CF**  
120 microns Z

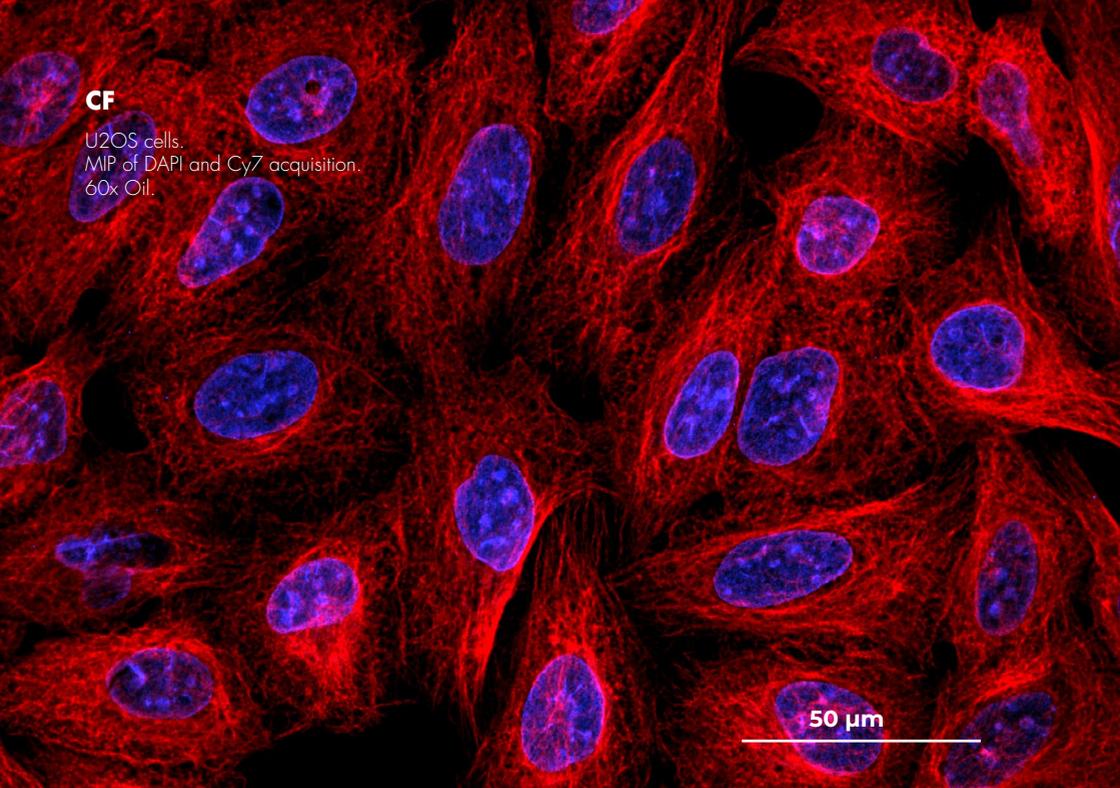
Cleared mouse brain tissue section.  
MIP of 120 microns Z stack.  
60x Oil.



50  $\mu$ m

**CF**

U2OS cells.  
MIP of DAPI and Cy7 acquisition.  
60x Oil.



**CF**

Rat brain tissue section.  
MIP of large and multichannel acquisition.  
20x Dry.



## Reliable and user-friendly solution

By using **LED or Laser** as illumination sources, both entry-level and challenging applications can be addressed. The **wide spectral range** enables a large variety of applications.

*“Whatever you do, do it with all your might”*

MARCUS TULLIUS CICERO

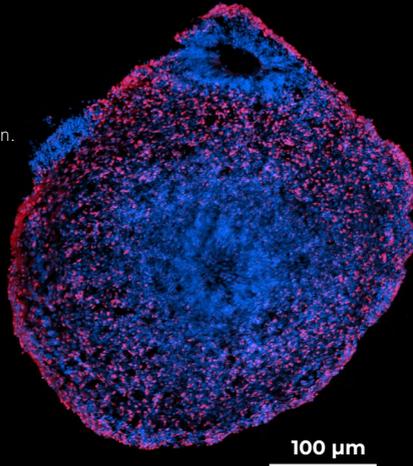
# High-speed Spinning Disk Confocal imaging with up to 22 mm FOV

With its small footprint, the CICERO delivers **fast image acquisition speed** (15K rpm) and sensitivity, easily enabling live cell imaging and large-scale 3D object imaging. Due to its **large field of view (FOV)**, the CICERO offers a minimal scanning process and can capture large samples in a single frame.

## CF

### Large view

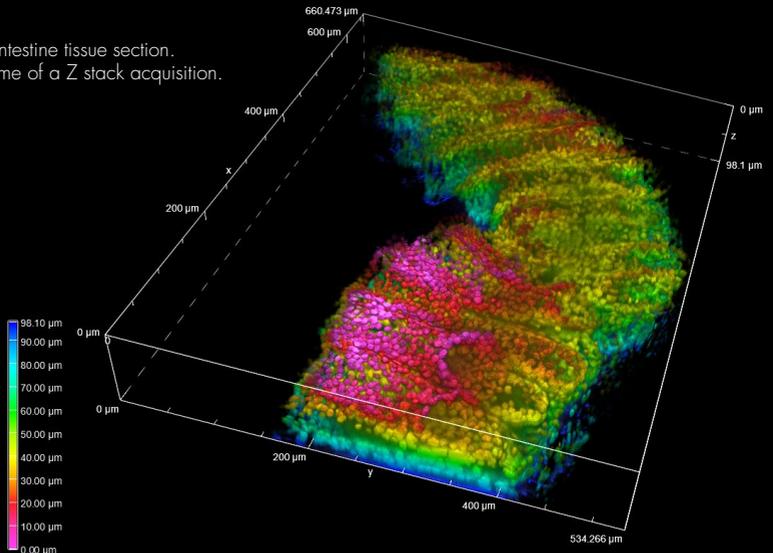
Cortical organoid.  
MIP of a large image.  
Dual channel and Z stack acquisition.  
60x Oil.



## CF

### Volume view

Cleared mouse intestine tissue section.  
Depth code volume of a Z stack acquisition.  
20x Dry.



# Compact and flexible system

Uniquely designed, **CICERO fits upright and inverted microscope frames with a C-camera port**, providing maximum configuration flexibility. CICERO allows seamless integration with all major microscopy systems and ensures a pleasant user experience. **Any user can include widefield and confocal images in their daily work.** The disk is hosted in a sealed compartment securing a dust-free environment.



## UNIVERSAL ILLUMINATOR

LED and Laser compatible  
plug&play solution



## ESSENTIAL CONTROL PLATE

ON/OFF illuminated button  
Manual bypass mode  
Sealed dust-free disk



## WIDE WAVELENGTH COVERAGE

Excitation: 390-750 nm  
Emission: 430-850 nm



## LARGE FOV

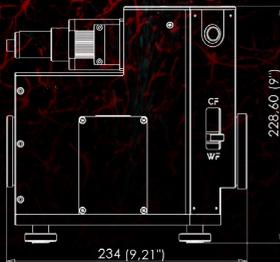
FOV up to 22mm  
C-mount camera

# Specifications

<b>FOV</b>	Up to 22mm
<b>Bypass Mode</b>	Yes (manual)
<b>Light Source</b>	LED (3mm LLG) and multimode Laser (SMA fiber)
<b>Spectral Range</b>	Excitation: 390-750 nm; Emission: 430-850 nm
<b>Camera</b>	C-mount camera
<b>Resolution</b>	Lateral Resolution (FWHM): ~230 nm (100X NA 1.45) Axial Resolution (FWHM): ~600 nm (100X NA 1.45)
<b>Software</b>	NIS Elements/ $\mu$ Manager/ VisiView <sup>®</sup> /Volocity/ SDK available for integration
<b>Configurations</b>	Upright and Inverted Microscope
<b>Weight</b>	7.65 Kg   16.8 lbs
<b>Dimensions</b>	166.20 (w) x 234 (l) x 228.60 (h) mm 6.54 (w) x 9.21(l) x 9 (h) inches

# Layout

Unit: mm (inches)



CrestOptics S.p.A.  
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Tel. +39 06 6147496

Wavelength: 400-800nm  
CW/Pulsed: CW  
Max Average Power: 7W  
IEC 60825-1:2014



**DANGER** – Visible and invisible laser radiation. Avoid eye or skin exposure to direct or scattered radiation.  
Class 4 laser product  
EN 60825-1:2014

Specifications and equipment are subject to change without any notice or obligation on the part of the manufacturer. March 2023 CrestOptics S.p.A.