



IC200-KIC™ Kinetic Image Cytometer

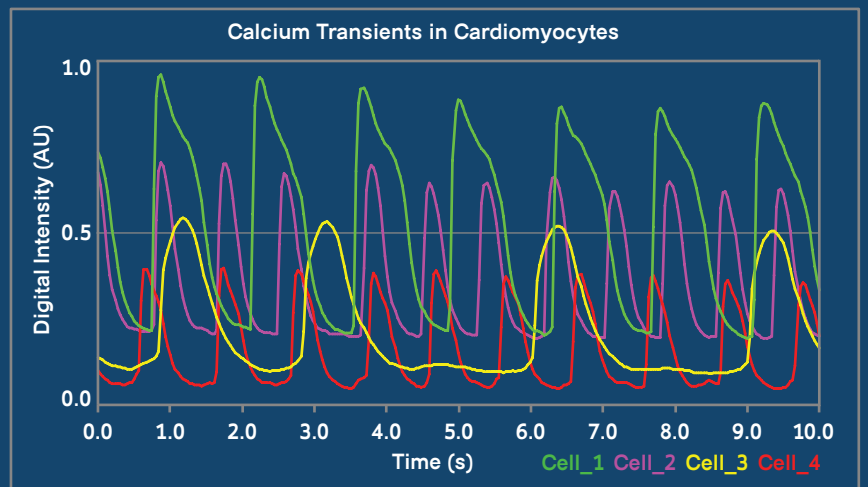
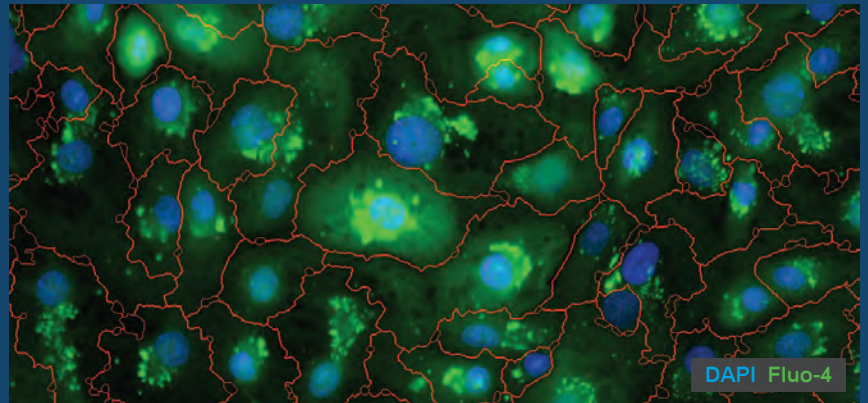
Features:

- Cell-by-Cell Kinetics
- Stimulation
 - Electrical
 - Optogenetics
- SIM Confocal
- Temp and CO₂ Control
- Hypoxia Control
- True Benchtop Footprint

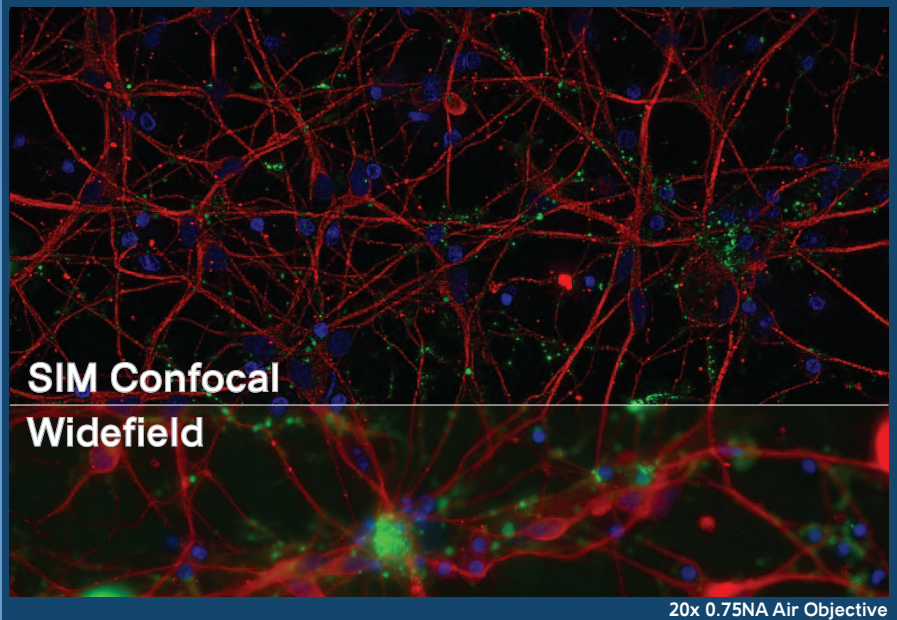


VALA
SCIENCES

Cell-by-Cell Kinetics



Structured Illumination Confocal



Technical Specifications:

Cameras	5.5MP or 4.2MP (up to 82% QE) Scientific CMOS cameras
Objectives	-Plan APO 4x NA 0.20 (1.63 $\mu\text{m}/\text{Pixel}$) -Plan APO 10x NA 0.45 (0.64 $\mu\text{m}/\text{Pixel}$) -Plan APO 20X NA 0.75 (0.32 $\mu\text{m}/\text{Pixel}$) -Plan APO 40X NA 0.95 (0.16 $\mu\text{m}/\text{Pixel}$) -Plan APO 60X NA 0.95 (0.11 $\mu\text{m}/\text{Pixel}$)
Auto Focus	-Surface Tracking plus Image Based -Fault tolerant (error free) accurate autofocus on every field of view -Performs autofocus in <0.4sec per field
Objective Positioner	Proprietary, ultra fast, 100nm resolution positioner.
Stage	-Encoded XY Stage with 100nm resolution. -Eject functionality serves sample out of the instrument to ease robotic integration.
Plate Compatibility	Supports 1536, 384, 96, 48, 24, 12 and 6 well plates.
Excitation Light Source	Solid State Light Engine with up to 7 lines.
Emission Filter Wheel	10-Position high-speed filter wheel
Standard Filter Sets	-DAPI, FITC, TRITC, Cy5 standard -Other filter sets available.
Kinetic Image Cytometry (KIC)	-High frame rate acquisition up to 1500 frames per second available (100fps standard). -Time-lapse acquisition for repeated sequence of an imaging protocol.
KIC Stimulation Options	-Electrical Stimulation: available with the automated electrode option. -Optogenetics: Optical stimulation using any of the available excitation lines. -Compound Addition: available with the liquid handling option.
Environmental Control	-Temperature (30-40° C) and CO ₂ (5-10%) available. -Hypoxia (5%, 10% or 15%) available.
Robotic Automation	-Software API available. -Robotic automation solutions available.
Dimensions	21" x 21" x 22" (53cm x 53cm x 56cm) WxDxH including light engine

For Sales and Technical Inquiries
Please Contact:

Vala Sciences Inc.
T: 888-742-8252 (VALA)
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SIM

The Only \$150k
Benchtop Confocal

Ideal for Live-Cell Imaging



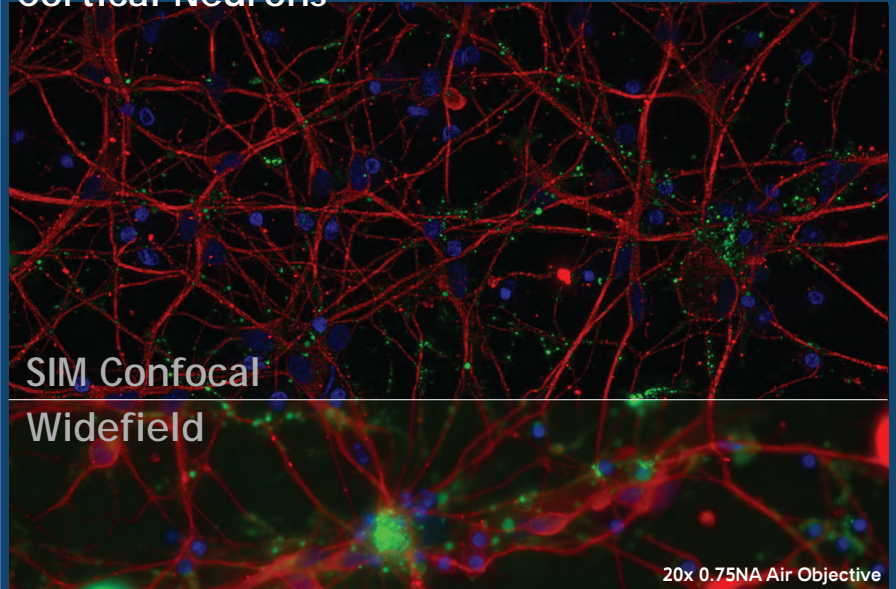
Features:

- High Speed Confocal
- LED Illumination
- Ideal for Live-Cell Imaging
- Temp and CO₂ Control
- Hypoxia Control
- Powerful Cell Analysis
- True Benchtop Footprint

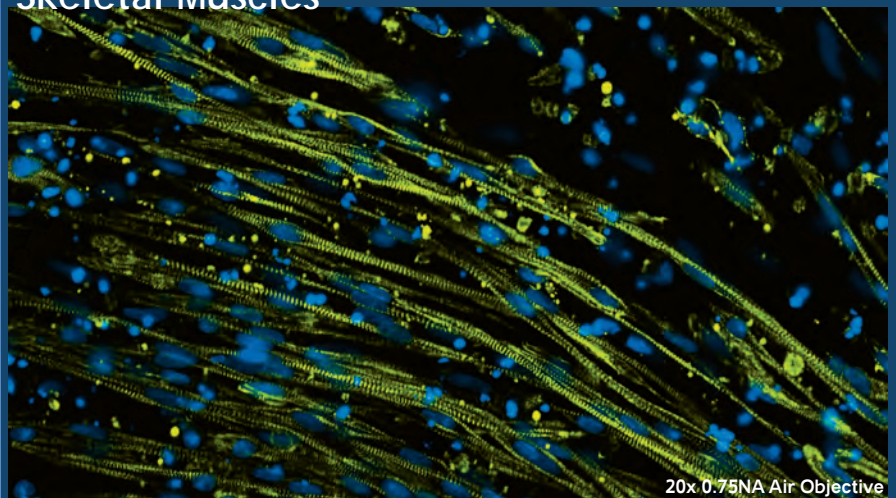


Structured Illumination Confocal

Cortical Neurons



Skeletal Muscles



A Confocal For Your Everyday Needs

The SIM Advantage

Confocal Method	Cost	Resolution	Light Efficiency	Acquisition Speed	Acquisition Ease	Maintenance Need
Vala SIM	\$	●	●	●	●	●
Spinning Disk	\$\$	◐	◐	●	◐	◐
Point-Scanning	\$\$\$	●	○	○	○	○

Technical Specifications:

Camera	4.2MP (up to 82% QE) Scientific CMOS
Imaging Modalities	-Fluorescent (Confocal and Widefield) -Brightfield -Single Plane, Z-Stack and Sythetic Focus
Objectives	-Plan APO 4x NA 0.20 -Plan APO 10x NA 0.45 -Plan APO 20X NA 0.75 -Plan APO 40X NA 0.95 -Plan APO 60X NA 0.95
Auto Focus	-Surface Tracking plus Image Based -Fault tolerant (error free) accurate autofocus on every field of view -Performs autofocus in <0.4sec per field
Objective Positioner	Proprietary, ultra fast, 100nm resolution positioner.
Stage	-Encoded XY Stage with 100nm resolution. -Eject functionality serves sample out of the instrument to ease robotic integration.
Plate Compatibility	Supports 1536, 384, 96, 48, 24, 12, 6-well and custom plates.
Excitation Light Source	High Power Solid State Light Engine
Emission Filter Wheel	10-Position high-speed filter wheel
Standard Filter Sets	-DAPI, FITC, TRITC, Cy5 standard -Other filter sets available.
Time-lapse Imaging	-Time-lapse acquisition for repeated sequence of an imaging protocol.
Environmental Control	-Temperature (30-40° C) and CO2 (5-10%) available. -Hypoxia (5%, 10% or 15%) available.
Robotic Automation	-Robotic automation solutions available. -Software API for third-party integration available.
Dimensions	21" x 21" x 22" (53cm x 53cm x 56cm) WxDxH

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