

# OEM

Original Equipment Manufacturer

# axiREADER C

Colorimetric Microarray Imager for Multiplex Analyses

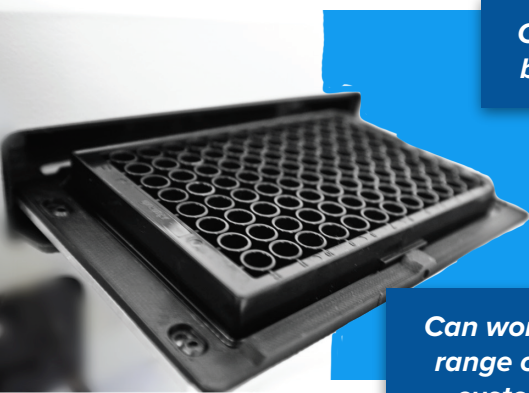


axiREADER shown here with an example axiREADER logo to illustrate potential OEM look - many other options are available.

- Open OEM Platform: **YOUR LOGO, NO ROYALTIES**
- Robust modern design desktop instrument
- High-throughput analysis
- Flexible formats: plates and slides are STD, other format via a custom adapter
- Designed and priced for multiple units deployed for diagnostics and other multiplex analyses

*Can be totally customized for your application, reporting needs, and company image*

*Can work from a 20 V battery / power bank.*



*Can work with a wide range of devices via custom adapters*

axiREADER C is a compact and portable colorimetric imager designed for imaging arrays of biomolecules (after visible staining such as with TMB substrates for example).

The instrument can work with a 96-well plate, a 12 x 8 strip well plate, as well as standard 25 x 75 mm slides (placed in a special adapter). The plates can be transparent or opaque.

The device takes images from above with a highly sensitive CMOS camera capable of taking images in a short exposure time.

The instrument has an automatic mechanism for plate / slide loading and unloading.



axiVEND LLC - 6555 Sanger Rd, Suite 200, Orlando FL 32827 - 1-833-AXI-VEND - sales@axivend.com

# Colorimetric axiREADER C

Feature	Technical Specification
<b>Detection</b>	High Resolution CMOS camera from above
<b>Resolution</b>	> 2.5 MPx
<b>Light Source</b>	Top <b>AND</b> bottom white LED for opaque and transparent surfaces
<b>Focus</b>	Manual, adjustable via PC software
<b>Exposure</b>	Controllable, up to ~ 30 s
<b>Sample Resolution</b>	6 um / pixel
<b>Scan Speed</b>	< 3 min / 96 well plate
<b>Import File Formats</b>	XLSX, GAL
<b>Image File Formats</b>	PNG, BMP, TIFF, JPEG. 16/24/32 bit
<b>Export File Formats</b>	XLSX, CSV, DOCX, PDF
<b>PC Operating System</b>	Windows 8.1, 10 preferred (32 or 64 bit)
<b>Data Interface</b>	USB 3.0
<b>Dimensions (metric, US)</b>	330W x 345D x 170H mm, 13 W x 13.6 D x 6.7 H in
<b>Weight (metric, US)</b>	7 kg, 15 lbs
<b>Power Requirements</b>	110 - 220 VAC, or 20-24 VDC battery, 2.5 A, 50 W
<b>Environment</b>	+5 to 40 C (40 - 104 F), < 80% RH



## Computer / Laptop Control:

- Supplied as an option, preloaded and tested with all software
- Able to run on your own laptop to satisfy local regulations, IT policies, or particular intended use
  - Can be a regular desktop PC, a laptop, touchscreen laptop, All-In-One
- *Minimum Configuration:*
  - Windows 8.1, 10 pref. (x32 or x64 bit)
  - Processor: Intel i5 or better
  - Memory: 4 GB RAM min
  - Screen Resolution: 1920 x 1080
  - Hard Drive: 500 GB min
  - USB 3.0: 1 port min, ideally 3 ports

Measurement options					
Assay name: quantitative					
Assay type		Pos. control count		Channel	
Quantitative		1		AU	
Qualitative		1		Neg. control count	
Avidity		1		Group count	
Multiplex		5		Standards count	
Constants list		Description			
Curve fit method		4 Parameter Logistics			
Variables and formulas		Standards			
Variable	Concentration	Units			
[S0]	1	IU/ml			
[S1]	2				
[S2]	4				
[S3]	8				
Result interpretation					
For variable	Conditional	Result 1	Result 2	Result 3	Result 4
[T]	[O]>1	True	False	True	False
[P1]	[P1]>[N1]*2	OK	Error	OK	Error
[N1]	[N1]<15000	OK	Error	OK	Error

Variables and formulas		Standards	
Variable	Concentration	Background	And
[S0]	1	K (Positive control) 1	Or
[S1]	2	K (Negative control) 1	Not
[S2]	4	Group average	Higher
[S3]	8	Concentration	Less
		Critical AU	Higher or equal
		Standards	Less or equal
		Wild Card	
		Logical operators	
		Formula (Sample AU within standard range)	

## Software:

- Define grids
- Analyze via total brightness of each spot
- Qualitative / quantitative analyses
- Create assays for full interpretation of results
- Advanced control of camera, XYZ kinematics, for optimized results

