

axiREADER F

Fluorometric Microarray Imager for Multiplex Analyses



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

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**

The axiREADER F is a compact and portable fluorometric imager designed for imaging microarrays.

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 (up to 4 placed in a special adapter).

The plates or slides must be transparent as they are laser excited and imaged from below, with a fast and sensitive CMOS camera.

The standard version is a 2 channel CY3 and CY5 filter reader. Optionally, 3 channels can be used with a wide combination of excitation/emission wavelengths.

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

Can work from a 20 V battery / power bank.

Can work with a wide range of devices via custom adapters

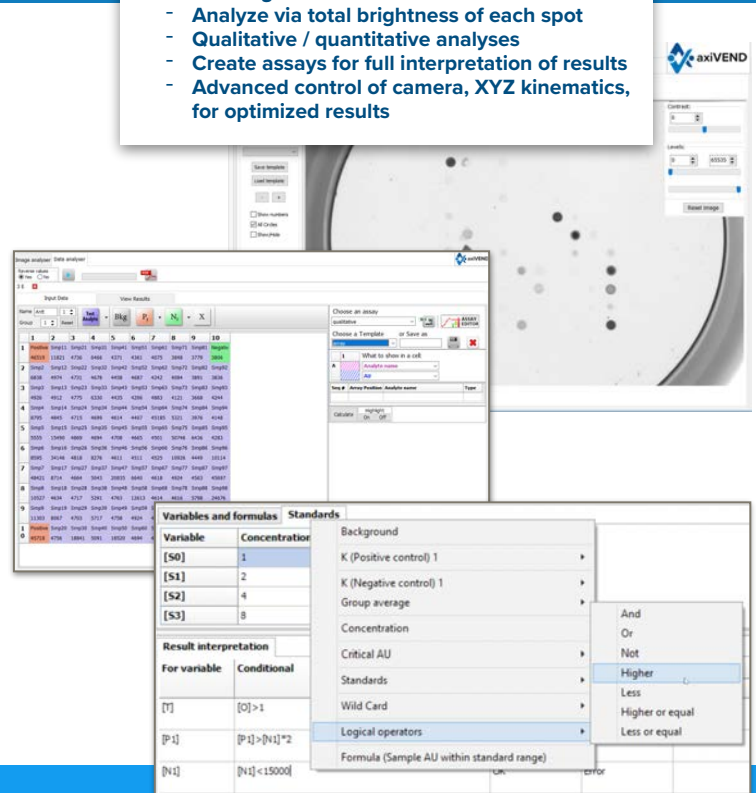


Fluorescence axiREADER F

Feature	Technical Specification
Detection	High Resolution CMOS 2 or 3 channel filters: CY3, CY5. Others available
Resolution	> 2.5 MPx
Light Source	Laser excitation (>10,000 hours lifetime)
Focus	Manual or automatic, adjustable via software
Exposure	Controllable, up to ~ 30 s
Sample Resolution	5 or 6 um / pixel (factory set)
Scan Speed	< 3 min / 96 well plate
Import File Formats	XLSX, GAL
Image File Formats	PNG, BMP, TIFF, JPEG. 16/24/32 bit
Export File Formats	XLSX, CSV, DOCX, PDF
PC Operating System	Windows 10 64 bit
Data Interface	USB 3.0
Dimensions (metric, US)	330W x 345D x 170H mm, 13 W x 13.6 D x 6.7 H in
Weight (metric, US)	7 kg, 15 lbs
Power Requirements	110 - 220 VAC, or 20-24 VDC battery, 2.5 A, 50 W
Environment	+5 to 40 C (40 - 104 F), < 80% RH

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



Common Configurations:

Blue Green Red

Fluorophore	Excitation, nm	Emission, nm
ALEXA 430	445	520
CY3	520	615
CY5	635	697

Violet Green Red

Fluorophore	Excitation, nm	Emission, nm
ALEXA 405	405	438
CY3	520	615
CY5	635	697

Violet Blue Green

Fluorophore	Excitation, nm	Emission, nm
ALEXA 405	405	438
FITC/ALEXA488	470	520
ALEXA568	520	640

Blue Channel Options: 445, 460, or 470 nm
Red Channel Options: 635 or 650 nm

Need different wavelengths?
Ask us !

Available emission filters

nm	FWHM	Application	nm	FWHM	Application
435	48	—	561	21	—
438	28	—	562	46	—
440	46	Sirius Emission	572	33	SpectrumGold™ Emission
447	65	DAPI Emission / BFP & GFP Emission	575	35	—
448	25	—	578	22	Cy3.5 Emission
452	51	—	585	40	—
466	45	—	586	26	SpectrumOrange™ Emission
472	35	—	591.5	49	Cy3 Emission / TRITC Emission
475	56	—	605	22	Qdot® 605 Emission
482.5	36	CFP Emission	607	42	GFP Emission / RFP Emission
494	25	—	615	26	Alexa Fluor® 594 Emission / Cy3 Emission
500	29	—	620	60	—
510	25	Cy2 Emission	623	30	Texas Red® Emission
510	89	FURA2 Emission	624	46	Texas Red Emission
512	30	Fluorescein Emission	625	25	Qdot® 625 Emission
520	41	GFP Emission	628	38	SpectrumRed™ Emission
520	77	Alexa Fluor® 488 Emission / GFP Emission	631	28	—
525	18	Qdot® 525 Emission	640	20	—
525	51	GFP/FITC Emission	640.5	81	mCherry Emission
527	22	SpectrumGreen™ Emission	648	20	FITC Emission
530	62	Thiazole Orange Emission	655	24	Qdot® 655 Emission
534	25	—	655	47	—
534.5	48	FITC Emission	661	26	TO-PRO®-3 Iodide Emission
540	56	FITC Emission	676	36	Cy5 Emission
543	27	YFP Emission	692	47	Cy5 Emission
549	21	Alexa Fluor® 532 Emission	697	91	Alexa Fluor® 680 Emission / Cy5.5™ Emission
550	100	Broadband Green Fluorescence	716	47	Cy5 Emission
560	32	—	785	71	Superbright780

