

Fluorowatcher

ФЛУОРЕСЦЕНТНЫЕ ТЕПЛОВИЗОРЫ

ТЕХ. ХАРАКТЕРИСТИКИ

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Fluorowatcher is a compact and portable fluorescent imager designed for imaging fluorescent molecules (for example, protein biochips). The instrument by standard operates on 2 channels: CY3 and CY5. The instrument is able to work with 96-well plate, a 12 x 8 well strip, as well as microscopic glasses (placed in a special adapter). The device takes images from the below, so the wells must have a transparent bottom. The device is equipped with a highly sensitive CMOS camera capable of taking more sensitive images in a short exposure time, which saves operating time. Image filtering goes through fluorescent filters. The instrument has an automatic mechanism of vessel ejection outside the body.

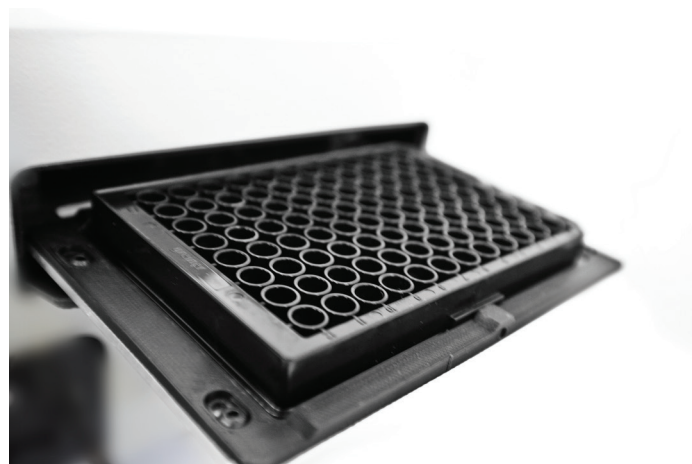
The instrument can operate with a 20V portable lithium-ion battery, which makes the device usable in the field studies or point-of-care.

The compact design allows the device to be carried in the hand luggage of the aircraft.



Software Features:

- Grid lay-outing
- Analysing images by the total brightness of the spots
- Qualitative/quantitative analysis of the images
- Creating Qualitative/quantitative assays
- Taking images in specified locations
- Report exports to PDF, CSV, EXCEL
- Control of camera exposure, XYZ kinematics and channels



Specifications

Fluorescence channels	CY3, CY5
Vessels	96 well plate/12 x 8 well strip/4 microscope slides
Light source	Laser
Lifetime of the light source	>10 000 hours
Data interface for unit controls	USB 2.0
Camera	3 MP, CMOS
Data interface for camera control	USB 3.0
Magnification	>10x
Image formats	png/bmp/tiff/jpg, 16/24/32 Bit
Focus	Manual, adjustable via PC
Exposure	Controllable, up to ~30 sec.
Software	Included
PC requirements	CPU: Intel i7 (with AVX2 support) RAM: 8 GB Video card: Nvidia GTX 1050 Ti 4GB, or better (Capability only with Nvidia cards) SSD: 256 GB OS: Windows 10 (64 bit)
Size (WxDxH)	330 × 345 × 170 mm
Weight, w/o power supply	not more than 8 kg
Power supply	Input AC 100–240 V 50/60 Hz, Output DC 20-24 V, 2.5A

Software interface, picture of a well of 96 well plate on CY5

Fluorowatcher v 0.4.6.0

Unit controls Image analyser Data analyser

Green Red Load

Manual Auto

Manual controls:

- ☒ Enable Grid
- 15 LEN
- 9 SHIFT
- 180 SHIFT_X1
- 118 SHIFT_Y1
- 180 SHIFT_X2
- 118 SHIFT_Y2
- 60 SHIFT_X
- 47 SHIFT_Y
- 121 SHIFT_X_B
- 56 SHIFT_Y_B
- 0.00 Rotate

Calculate

Calculate All

Clone to next

Clone to all

Clone to all remaining

Load image

Save image

Save Coordinates

Save All Coordinates

Input Data View Results

Choose an assay

Choose a Template or Save as

What to show in a cell:

Cell Name Sample Name Type

Calculate highlight Non Channel

Screenshot Type

☒ 96 Well

☐ Slide

CloneTo

State

☐ Additional

☐ Com panel

Preset:

Measure

Go To

Stop

Reference

Home

Eject

Optional fluorescence channels:

Blue Green Red

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

Violet Green Red

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

Violet Blue Green

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

Available emission filters

nm	FWHM	Application
435	48	—
438	28	—
440	46	Sirius Emission
447	65	DAPI Emission / BFP & GFP Emission
448	25	—
452	51	—
466	45	—
472	35	—
475	56	—
482.5	36	CFP Emission
494	25	—
500	29	—
510	25	Cy2 Emission
510	89	FURA2 Emission
512	30	Fluorescein Emission
520	41	GFP Emission
520	77	Alexa Fluor® 488 Emission / GFP Emission
525	18	Qdot® 525 Emission
525	51	GPF/FITC Emission
527	22	SpectrumGreen™ Emission
530	62	Thiazole Orange Emission
534	25	—
534.5	48	FITC Emission
540	56	FITC Emission
543	27	YFP Emission
549	21	Alexa Fluor® 532 Emission
550	100	Broadband Green Fluorescence
560	32	—

nm	FWHM	Application
561	21	—
562	46	—
572	33	SpectrumGold™ Emission
575	35	—
578	22	Cy3.5 Emission
585	40	—
586	26	SpectrumOrange™ Emission
591.5	49	Cy3 Emission / TRITC Emission
605	22	Qdot® 605 Emission
607	42	GFP Emission / RFP Emission
615	26	Alexa Fluor® 594 Emission / Cy3 Emission
620	60	—
623	30	Texas Red® Emission
624	46	Texas Red Emission
625	25	Qdot® 625 Emission
628	38	SpectrumRed™ Emission
631	28	—
640	20	—
640.5	81	mCherry Emission
648	20	FITC Emission
655	24	Qdot® 655 Emission
655	47	—
661	26	TO-PRO®-3 Iodide Emission
676	36	Cy5 Emission
692	47	Cy5 Emission
697	91	Alexa Fluor® 680 Emission / Cy5.5™ Emission
716	47	Cy5 Emission
785	71	Superbright780

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