

## ALA-1/4, 4-channel fluorometer

### DESCRIPTION

**ALA-1/4** is the first multi channel rotor type fluorescence detector that allows detection of the fluorophores lights emission in the reaction mixes with a closed-tube method immediately after PCR.

**ALA-1/4** is a four-channel high speed detector of fluorescence/quenching ration of DNA probe combined with a fluorescence/quenching molecules. Level of fluorescence depends on the quantity of the positive amplification after thermocycling of DNA probes. The instruments substitutes for electrophoresis and gel-documentation step of amplicon detection. The closed-tube method ensures biosafety conditions in the DNA diagnostic Labs. Biosan FEP (Fluorescence detection with End Point analysis) is the revolutionary approach that allows to:

- Carry out the experiment with closed test tubes, thus eliminating the probability of contamination;
- Perform the amplification and detection processes in the same room with reduced personnel costs;
- 4-channels detection: FAM, HEX, ROX, CY-5;
- Register, interpret and store the results obtained on PC;
- Simultaneously detect a variety of infections pathogens;
- Eliminate the need for electrophoresis and gel run storing instruments.

Channels' specifications:

- Channel 1 — FAM:  
Excitation wavelength 460 nm  
Emission wavelength 515 nm
- Channel 2 — HEX:  
Excitation wavelength 532 nm  
Emission wavelength 570 nm
- Channel 3 — ROX:  
Excitation wavelength 570 nm  
Emission wavelength 610 nm
- Channel 4 — CY-5:  
Excitation wavelength 630 nm  
Emission wavelength 670 nm

Software specifications:

- Register, interpret and store the results obtained on PC
- Simultaneously detect a variety of infections pathogens
- Save/Load the previously obtained results
- Edit existing or create new test-systems
- Option for results interpretation in gel electrophoresis image simulation

Open-type Software FEP (Biosan) ENG (31.03.2015)

[Download](#)

Software Manual (05.09.2012)

[Manual \(PDF\)](#)

Closed-type Software ALA-1 v4.11 (InterLabService) RUS (20.12.2006)

Go to link for downloading rus:



### CAT. NR.

	ALA-1/4 with standard rotors R-36/0.5, R-48/0.2
BS-050106-AAA	230VAC 50/60Hz Euro plug
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BS-050106-CK	IQ OQ document
BS-050106-DK	PQ document

## ALA-1/4, 4-channel fluorometer

<http://www.interlabservice.ru/catalog/oborud/index.php?sid=1301&id=6681>

### SPECIFICATION

Excitation source	Light diode (Luxeon) through interference filter
Interference filter transmission spectrum half-width	7 nm
Detector	Photomultiplier
Full rotor`s measurement time	30 sec/channel
Rotors capacity R-36/0.5	36 microtubes (0.5 ml)
Rotors capacity R-48/0.2	48 microtubes (0.2 ml)
Software	Open type
Communication Interface	USB
PC system requirements:	1000 MHz PIII Intel, 124 MB RAM, Windows XP/Vista/7, USB port
Overall dimensions (W×D×H)	400x250x190 mm
Weight	8.5 kg
Nominal operating voltage	230 V, 50/60 Hz
Power consumption	30 W