

Reagents

Faecal Immunochemical Test(FIT)



OC-SENSOR FIT



OC-FIT Calibrator
OC-FIT Control LV1/LV2/LV3

Faecal Calprotectin (FCa)



OC-FCa Reagent



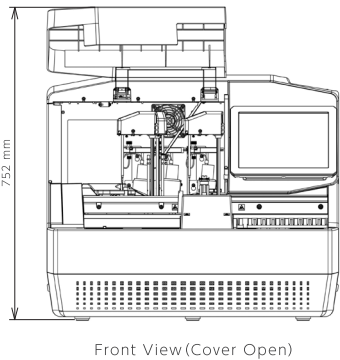
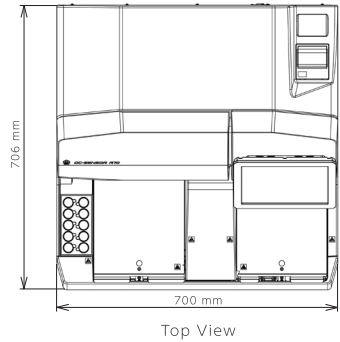
OC-FCa Calibrator
OC-FCa Control LV1/LV2/LV3

Main specifications

General	Product name	OC-SENSOR R70
	Principle	Latex agglutination immunoturbidimetry
Analysis	Test items	Faecal Immunochemical Test, Faecal Calprotectin
	Throughput	320 tests/hour
	Calibration	Ready-to-use liquid multipoint calibrator (6 points)
	Hook effect	PRC method, RBC method
	Barcode reading	Rack barcode, Sample barcode and Reagent barcode (standard); QC and Calibrator barcodes (via optional Handy Barcode Reader)
Sample	Sample run capacity	200 samples: 10-sample racks × 20, Continuous loading
	Retest	Automatic retest and dilution test (× 10, × 20, × 100, × 200, × 400)
	QC materials	Liquid controls LV1 (Middle), LV2 (High), LV3 (Low)
	STAT sample setting	Up to 10 samples
Reagent	Sample dispense	Sampling nozzle with liquid level detection sensor and nozzle washing function
	Reagent loading capacity	4 reagent sets (R1, R2) and 2 sample diluents
	Refrigerating system	Peltier cooling system surrounding reagent storage area (working for 24 hours)
Reaction	Reagent dispense	Reagent nozzle with liquid level detection sensor and nozzle washing function
	First result	FIT 9 min, FCa 12 min, FIT and FCa 12 min
	Cuvettes	Semi-disposable cuvettes (11-sample cells; 5 cuvettes can be loaded), automatic washing with wash solution and purified water
	Mixing mechanism	Mixer rotating system with washing function
	Heating system	Air bath heating system for reaction table
	Light source / Detector	LED (Wavelength: 660 nm) / Photodiode
	Operation control/data processing	Multi-CPU system on internal network connection
Interface	Memory capacity	Up to 1,000,000 test results Calibration data: up to 10 calibrations per Reagent lot
	Operation panel / Input device	Colour LCD touchscreen (10.4-inch), barcode reader
	Output device	Thermal printer (thermal paper width: 58 mm), Internal SSD, External media over USB connection
	Security	Programmable operator authorisation
	Optional reader	2D Code Reader and Handy Barcode Reader
	External connectivity	RS-232C, Ethernet
Environmental	Dimensions	700 mm × 706 mm × 589 mm (W × D × H, ±2%)
	Weight	70 kg (±4%)
	Insulation rating	Basic insulation: 1500 V (RS-232C, LAN)
	Power supply	AC100-240 V ±10% 50/60 Hz 500 VA or less

Notes: •Reagents, calibrators, QC materials, and sampling bottles are not included and are sold separately.
•For warnings and precautions, please refer to the applicable Instructions for Use and the instrument's Operation Manual.
•For healthcare professionals only.

Instrument Dimensions



Front View (Cover Open)



Fit your life,
with our FIT



OC-SENSOR R70
HIGH-THROUGHPUT, STABLE & RELIABLE

OC-SENSOR R70 supports reliable screening and routine diagnosis of lower gastrointestinal diseases.





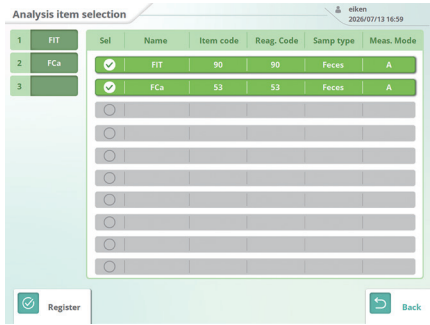
Supporting Reliable and Continuous Laboratory Operation

Enables efficient and reliable laboratory workflows.



High Throughput

Up to 320 tests/hr for Faecal Immunochemical Test (FIT) and Faecal Calprotectin (FCa) to support growing testing demands.



Random Access

Multi-parameter testing to maximise laboratory workflow flexibility.



Large Sample Capacity

Up to 200 samples with rack and tray loading to reduce operator intervention.



Extended Reagent Capacity

Up to 1,440 FIT tests with simultaneous loading of four reagent sets to minimise reagent replacement and support continuous testing.



Consistent Temperature Control for Reliable Performance

Minimises analytical variation and supports stable results.



On-Board Reagent Refrigeration

Maintains reagent stability on board to eliminate recapping after use and reduce operator handling.



Temperature-Controlled Reaction Table

Maintains stable antigen-antibody reactions to support reliable and reproducible test results.

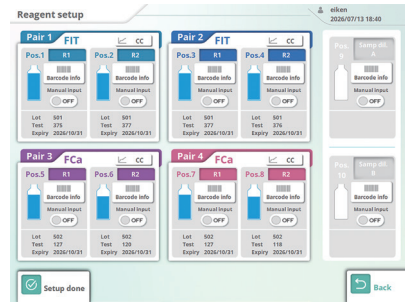
Semi-Disposable Reaction Cuvettes

Easily removable and replaceable for simplified maintenance.



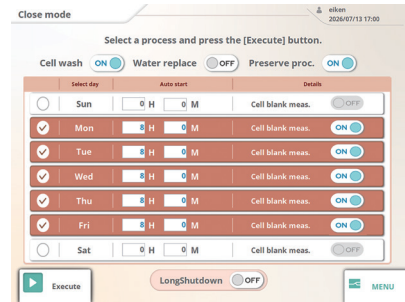
Advanced Automation

Reduces hands-on operation and supports reliable laboratory workflows.



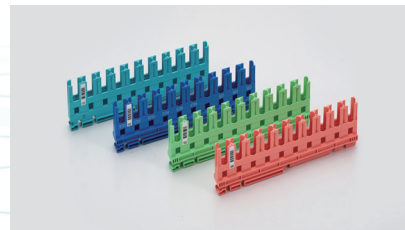
Reagent Registration

Automatic reagent registration via built-in barcode reading, with optional barcode registration for QC materials and calibrators to reduce manual data entry and prevent registration errors.



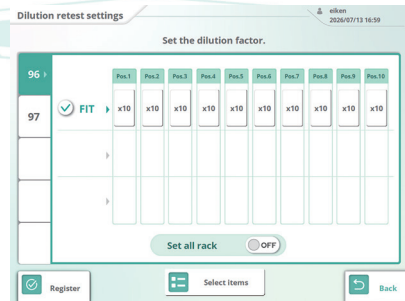
Flexible Scheduling Function

Scheduled automatic start-up and programmable shutdown functions help reduce operator workload and support efficient laboratory workflow.



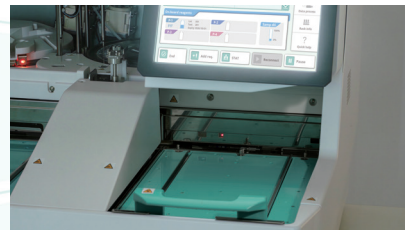
Mode Identification

Rack barcodes automatically identify QC, retest, and dilution retest modes to streamline workflow. Colour-coded racks improve visibility and help reduce operational errors.



Dilution Retesting

Automatic dilution retesting from 10- to 400-fold dilution to reduce retesting workload and improve laboratory efficiency.



Rack Detection

Testing starts automatically when a rack is loaded, eliminating unnecessary operation steps and supporting a smooth workflow.

One Sample. Two Insights.

Supports FIT and FCa testing from a single Sampling Bottle, reducing sampling burden and improving workflow efficiency.



Reliable Analytical Performance

Delivers stable and reliable analytical performance optimised for high-throughput routine stool testing.

Limit of Detection & Quantitation

Analyser	Limit	FIT	FCa
OC-SENSOR R70	LOD	2.0 µg/g (10 ng/mL)	17 µg/g
	LOQ	5.8 µg/g (29 ng/mL)	24 µg/g

Between-day precision

Analyser	QC Level	FIT			FCa		
		Mean(ng/mL)	SD	CV	Mean(µg/g)	SD	CV
OC-SENSOR R70	LV3	72.6	1.0	1.4%	85.5	1.6	1.9%
	LV1	150.3	2.7	1.8%	248.6	2.3	0.9%
	LV2	450.4	5.8	1.3%	496.6	4.9	1.0%

Note: LOD and LOQ were evaluated using OC-Auto Sampling Bottles 4.

(in-house data)