

IVD solutions through partnership



# OC-SENSOR™

## Faecal Immunochemical Test (FIT)

- Global leader in FIT testing
- Scalable solutions to meet throughput requirements
- Suitable for symptomatic patients and population screening

# Introduction

## Expertise, efficiency and excellence with... OC-Sensor™

Eiken Chemical Company released the first generation of OC-Sensor™ in 1989. OC-Sensor™ has since evolved as the standard for the detection of occult blood in faeces and is the only quantitative Faecal Immunochemical Test (FIT) product with FDA approval. With over 120 million samples distributed annually to more than 52 countries you can be confident that OC-Sensor™ is the solution for your symptomatic and screening needs.

### OC-Sensor™ is a complete solution:

- Choice of dedicated FIT analysers** - Laboratories can choose the most appropriate platform and grow as demand increases.
- Proven Sample Collection Device** - Sample collection is simple, hygienic and convenient for the patient. The device is engineered to achieve unparalleled haemoglobin stability and exemption from UN3373 regulations.
- Ready-to-use liquid reagents** - Unique haemoglobin stabilising technology means that all controls and calibrators are provided in a liquid format. No more rehydration and aliquoting issues!

## OC-Sensor™ Reagents:

OC-Sensor™ reagents are expertly designed to enable simple and reliable operation in the laboratory.

- Packing is kept to a minimum to reduce storage requirements.
- Specifically designed to be resilient to the hook effect (Prozone).
- Unparalleled stability.
- Automatically create calibration curves using ready-to-use kits requiring less than 1 minute of hands on time.
- Ready-to-use liquid quality control (QC) and calibrator in convenient dropper bottles.

When introducing FIT into a pathway to triage symptomatic patients, a very low cut-off must be adopted to ensure a negative predictive value of >99.8% (NICE DG30). EIKEN Chemical Company have responded by developing an additional quality control reagent.

Accurate at extremely low concentrations, the new **LV3 liquid control** ensures confidence at the clinical decision point of 10µg haemoglobin/g faeces set by NICE DG30.

## For QC testing just add 4 drops and press 'start' - Simple as that!



Ready-to-use liquid quality control



Unique LV3 QC for confidence at low concentrations

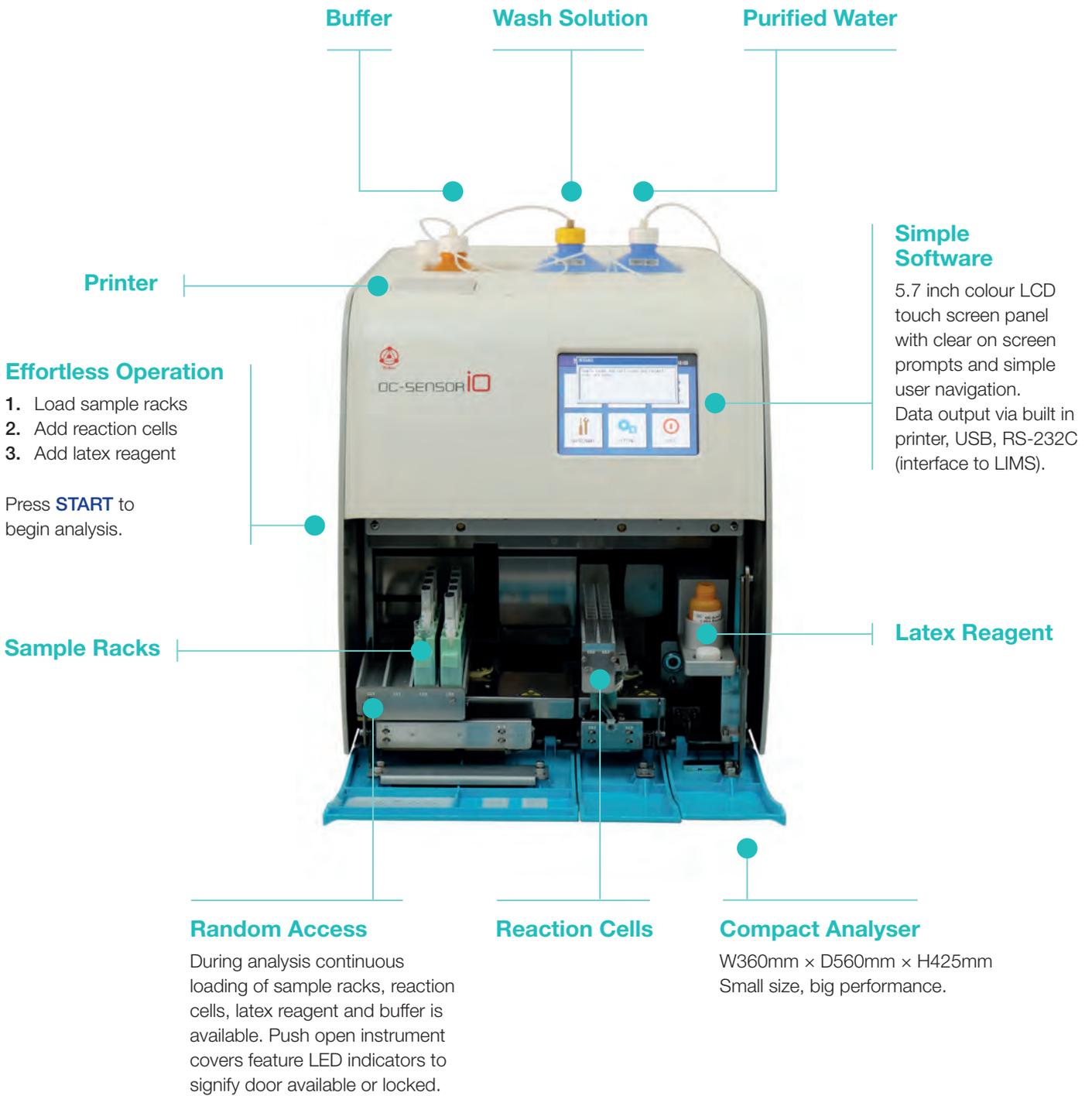


High volume reagents suitable for colorectal cancer screening



Pack sizes prevent wastage and reduce storage needs

# OC-SENSOR™ iO



Random access gives a sample throughput of 88 tests/hour



Straightforward interface and touch screen operation



Automatic standard dilution for calibration



Analyse up to 20 samples at a time, 5 per rack

# OC-SENSOR™ PLEDIA

## High Throughput Sampling

Capable of analysing 320 samples per hour on a fully random access basis. Up to 200 samples can be loaded on the machine with automatic rack detection. The Pledia has multiple reagent slots for uninterrupted processing for high throughput population screening.

## Advanced Usability

10.5 inch colour LCD touch screen panel with a straightforward and user friendly interface. The display screen is angle adjustable to improve user visibility. Data output via built in printer, USB, RS-232C or LAN connection.

### Benchtop analyser

W630mm x D630mm x H560mm.

Light blue - Patient sample rack.

Green - Retest rack. Enable automatic sample retesting by switching off the foil punch mechanism.

Orange - Dilution rack enables automatic  $\times 15$  and/or  $\times 250$  dilutions.

Dark Blue - QC and Calibration rack.



## Information Generation

Real-time information generated, including details on reagents and sample processing time. Extensive QC functions are available including X-R control screen and CV auto calculation.

## Complete Automation

Capable of automatic startup, maintenance and shutdown. Automatic identification of measurement modes based on barcoded racks. Racks are differentiated both visibly and automatically through barcodes.



High reagent load capacity



Suitable for high throughput use



Coloured function racks for hands free operation



Random access allows the PLEDIA to handle 320 tests/hour

# OC-SENSOR™

## Sample Collection Device

The only FIT device to feature an integrated filter. This filtered solution prevents the inflow of particulate matter into the analyser, minimising machine maintenance. Sedimentation is not needed so on receipt to the lab the device is ready to test.



Flat surface for easy patient labelling and application of laboratory barcodes.



A hollow lid, along with an integrated scraper and internal hollow chamber capture excess stool while delivering precise quantities of stool into the buffer solution.



Analyser pierces foils and squeezes buffered sample into the collection portion of the device, where an aliquot is taken for testing. Any remaining solution flows back through the filter leaving a dry device that is spill proof once analysed and ready for retesting.

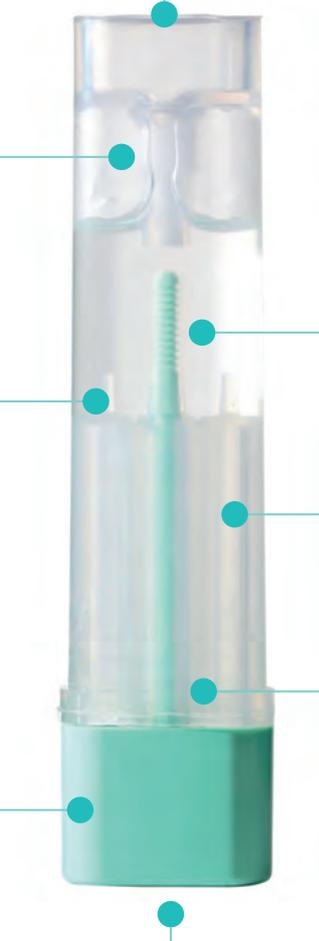
Screw thread wand to scrape along the stool surface for collection where blood is most likely to be found as the stool passes through the bowel.



Double walled clear plastic design for robust transportation and easy sample viewing.



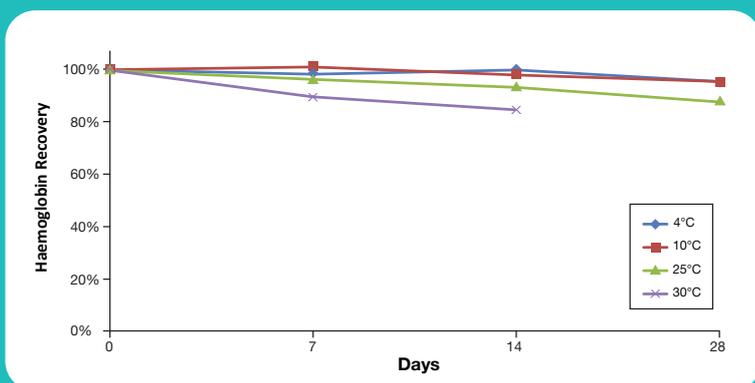
Narrow device collar to discourage overloading of devices when sampling



Twist and push to close device with an audible click, proven to be simple and easy to use.

## Exceptional stability

Haemoglobin is a very unstable target which starts to degrade as soon as it is released from the body. The Auto-3 Sample Collection Device affords unparalleled stability of haemoglobin ensuring viability even at high temperatures.



# Analyser Specifications

	OC-Sensor™ PLEDIA	OC-Sensor™ iO
Principle	Latex agglutination immunoturbidity	Latex agglutination immunoturbidity
Operation speed	320 tests/hour	88 tests/hour
Sample run capacity	20 × 10 sample rack	4 × 5 sample rack
Sample loading	Random Access	Random Access
Barcode reading	Rack barcode, sample barcode, reagent barcode (optional 2D barcode)	Rack barcode, sample barcode
Data input	Colour LCD touch panel (10.5 inches)	Colour LCD touch panel (5.7 inches)
Data output	Thermal Printer, RS-232C, USB, LAN	Thermal Printer, RS-232C
Memory capacity	100,000 test results	5,000 samples, 1000 QC tests, 1000 Errors
Dimensions	W630mm × D630mm × H560mm	W360mm × D560mm × H425mm
Weight	58Kg	35Kg
Power requirements	AC100-240V 50/60Hz, 500VA	AC100-240V 50/60Hz, 140VA

## Reagents and consumables

Product Code	Pack Size	Description
V-PZ25 / V-PZ26	100 devices	Auto-3 Sample Collection Device
V-PH18	2 × 7ml	OC-Sensor™ iO Latex reagent
V-PZ01	5 × 15ml	OC-Sensor™ PLEDIA Latex Reagent
V-PH46	200ml	OC-Sensor™ iO Buffer
V-PZ03	500ml	OC-Sensor™ PLEDIA Buffer
M-5L01	10 × 100	DISPO 10 OC-Sensor™ iO reaction cells (disposable)
MV5F07	5 × 11 carousel	OC-Sensor™ PLEDIA reaction cells (semi-disposable)
EU074	1000	2ml Conical hitachi cups
V-PH52	1 × 3ml STD	OC-Sensor™ Calibrator 2 Kit
V-PH53	2 × 5ml	Liquid Control - LV1
V-PH54	2 × 5ml	Liquid Control - LV2
V-PH59	2 × 5ml	Liquid Control - LV3
ST020	20	Thermal Printer rolls

OC-Sensor™ is a trademark of EIKEN CHEMICAL Co., LTD.

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