

Dx InstaCheck™

Stat testing
Maximum menu
Advanced fluorescence immunoassay
Results comparable to reference methods
Trouble-free



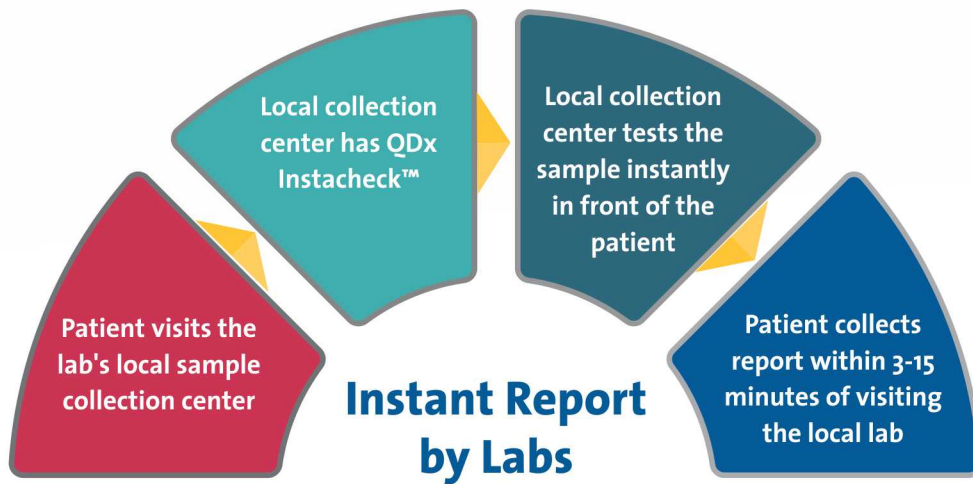
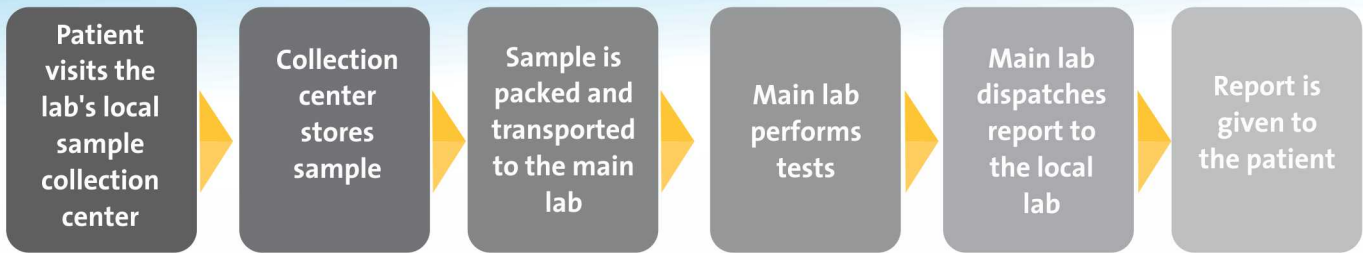
**Point of care. Anytime.
Anywhere.**

DiaSys

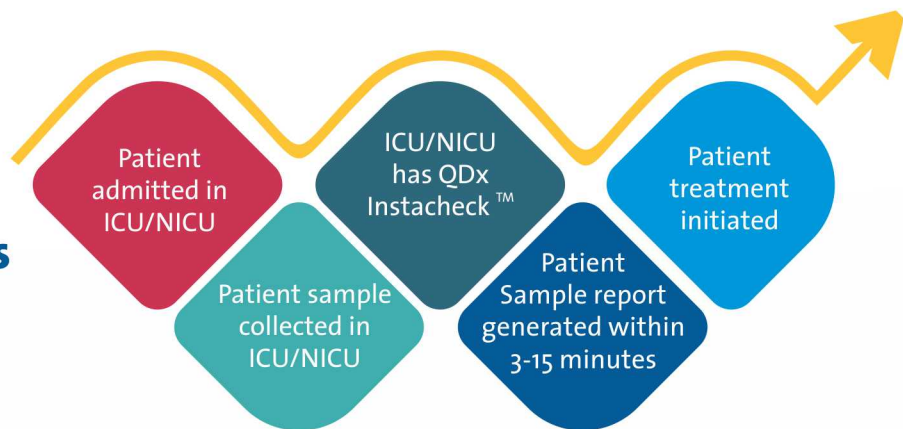
Diagnostic Systems

CHOOSING QUALITY.

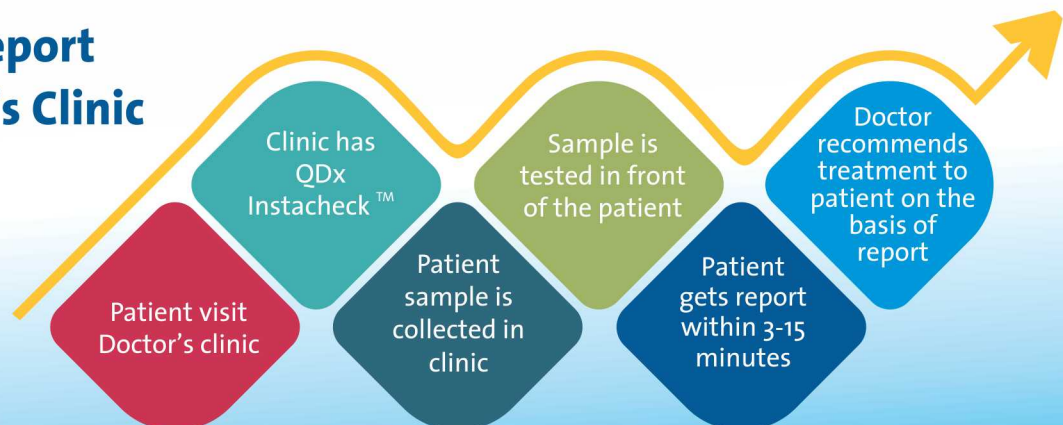
Conventional Diagnosis



Instant Report in ICU's & NICU's of Hospitals



Instant Report at Doctor's Clinic



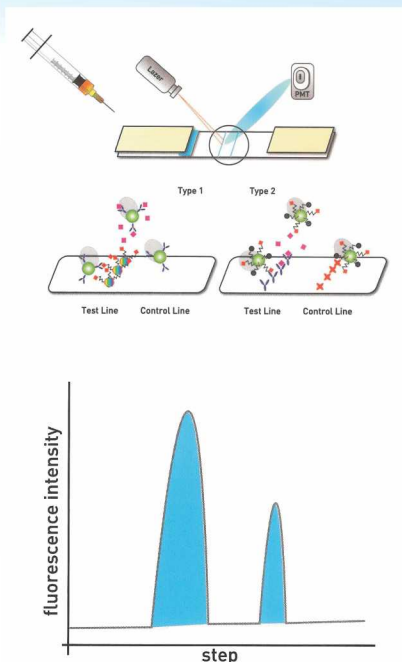
Principle of the Instrument

QDx Instacheck™ Reader is a **fluorescence scanning instrument** to be used in conjunction with various QDx Instacheck™ Immunoassay Tests which are based on antigen-antibody reaction and fluorescence technology.

QDx Instacheck™ Reader uses a semiconductor diode laser as the **excitation light source for illuminating the test cartridge membrane** (pre-loaded with the clinical specimen duly processed) thereby triggering fluorescence from the fluorochrome molecules present on the membrane.

The fluorescent light is collected together with the scattered laser light. Pure fluorescence is filtered from the mixture of the scattered and fluoresced light. Intensity of the fluorescence is scanned and converted into an electric signal which is proportional to the intensity of fluorescence produced on the test cartridge membrane.

The on-board microprocessor computes concentration of the analyte in the clinical specimen based on a **pre-programmed calibration**. The computed and converted result is displayed on the display screen of the QDx Instacheck™ Reader.



Instrument Specifications

Physical Description

Dimensions	250 mm (L) x 185 mm (W) x 80 mm (H)
Weight	1.2 Kg
Power supply	100-240 V AC, 50/60 Hz, 3-5 A
Data output	On-board Screen / Printer

Permissible Environmental Conditions

Temperature	15°C ~35°C
Humidity	Less than 70%
Location	Dry, clean, flat and horizontal surface in an in-door setting away from direct sunlight, mechanical vibration and magnetic field

Optical Description

Light source	Laser Diode, 2.5 mW, 637 nm
Detector	Silicon Photo Diode

Other

Driver Motor	12V
Interface	RS-232 serial port (for printer)
Printer	Thermal
Display	LCD (16x4 Characters)
Key Pad	5 Function Keys

*** This device meets the EMC guideline as per EN61326-2-6:2006.

Benefits

Quantitative results within 3-15 minutes

Wide growing test parameters

Minimum training required

Compact & portable (only 1.2kgs)

Very convenient & reliable sampling

Universal sampling options - whole blood, plasma & serum

Results comparable to labs

Low maintenance

Single chip calibration, no need to plot curve

Lateral flow laser induced fluorescence method



Value Proposition

- Instant results - higher lab throughput
- Minimum training required
- Avoid erroneous results due to hassles of sample storage and transportation
- Low start-up investment
- Single test packs - no wastage
- Cost-effective kits



Prognosis to Treatment

RIGHT HERE!
RIGHT NOW!

Conventional tests take about 12-24 hours to provide results. However with QDx Instacheck™, you can confirm your diagnosis in a matter of minutes and initiate treatment then and there itself.



QDx I Chamber is the device which provides a suitable environment as to set a desired temperature of the Instacheck cartridges when heating is required between tests.

The reliability of the test is improved by QDx I Chamber as it keeps the temperature constant while performing the test.



Instrument Specifications

Physical Description

Dimensions	190 mm (L) x 120.6 mm (W) x 108 mm (H)
Weight	1.5 kg (± 0.3 kg)
Cartridge slots	6 (Temperature can be set independently for each slot)
Power supply	1DC 12 V, 5 A
Data output	LCD (16 x 4 characters)
Ports	Mini USB port (for software upgrade)

Permissible Environmental Conditions

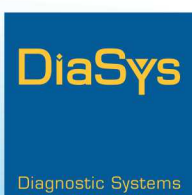
Temperature	115~35°C (59~95°F)
Humidity	Less than 70%
Installation	Dry, clean, flat and horizontal surface in an indoor setting away from direct sunlight, mechanical vibration and electromagnetic field, etc.
Heating/ Cooling time	- About 10 minutes, when the target temperature (Td) is within 5°C of the ambient temperature - About 1 hour, if the target temperature (Td) is lower than the ambient temperature by 10°C or more.



Product class	Test item	Diseases	Sample Type	Reaction Time	Measurement range
Cardiac	Tn-I	Myocardial infarction	Serum, Plasma	12 min	0.1-50 ng/mL
	CRP/hsCRP all in one	Inflammation/Cardiovascular inflammation	Whole blood Serum, Plasma	3 min	0.5-200 mg/L
Hormone	TSH	Thyroid function	Whole blood Serum, Plasma	15 min 12 min	1-100 µIU/mL 0.1-100 µIU/mL
	T3*	Thyroid function	Serum, Plasma	16 min	0.5- 5.0 ng/mL
	T4*	Thyroid function	Serum, Plasma	8 min	10.23 -300.0 nmol/L
	FSH	Menopause	Serum, Plasma	15 min	1-100 mIU/mL
	Total β HCG	Fertility	Whole blood Serum, Plasma	15 min	5-50,000 mIU/mL
	LH	Ovulation	Serum, Plasma	15 min	1-100 mIU/mL
Infection	Prolactin	Sexual disorder & infertility	Serum, Plasma	10 min	1-100 ng/mL
	CRP/hsCRP all in one	Inflammation/Cardiovascular inflammation	Whole blood Serum, Plasma	3 min	0.5-200 mg/L
	PCT	Sepsis	Whole blood Serum, Plasma	12 min	0.5-100 ng/mL
Diabetes	Microalbumin	Diabetes mellitus	Urine	10 min	2-300 mg/L
	HbA1c*	Diabetes mellitus	Whole blood	12 min	NGSP : 4-15 % IFCC : 20.2-140.4 mmol/mol eAG : 68.1-383.8 mg/dL
Others	Ferritin	Anemia	Serum, Plasma	10 min	10-1,000 ng/mL
	Vitamin D*	Bone disorder	Serum, Plasma	28 min	8.0 - 70 ng/mL

All specifications are subject to change considering future modifications and advancement in the products.

*Parameters require QDx I Chamber for incubation.



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CHOOSING QUALITY.