

TC-MATRIX160

Fully Automatic Chemistry Analyzer

• 150 Tests / Hour, Double Reagent

For over 25 years, Teco Diagnostics has been an industry leader in the manufacturing of in-vitro clinical diagnostic tests and instruments. From powder to liquid clinical chemistry, we have high quality solutions for your diagnostic needs. Based in Anaheim, CA, our manufacturing facility is FDA regulated, and thus all phases of our production processes are based on strict Current Good Manufacturing Practices (cGMP) regulations which safeguard the excellent quality of all our products.





FDA Registered and cGMP Compliant Manufacturer ISO 13485.2016 Certified SA8000 Certified I CE



TC-MATRIX160

Fully Automatic Chemistry Analyzer

- Constant 150 test / hour with double reagent
- 80 reagent positions
- Automatic liquid level sensing, anti-collision protection.
- Integrated full closed optical system, multi wavelength simultaneous detection.
- New amorphous optical plastics reaction cups, perfect transmittance.
- Maintenance free semiconductor solid state refrigeration.
- Friendly surface and easy to operation





Multifunctional precision sampling probe

- External & internal mirror polish, external |& internal probe washing
- Dedicated sampling probe equipped with sensitive liquid sensor, timely feedback of
- reagent & sample residuals.
- Collision protection, automatic probe depth adjusting

Excellent mixer design

- Teflon coating mixers. No water dropping (reducing carry-over)
- Excellent mixing effect with standard mixing procedure

High precision ceramic syringe

- Permanent ceramic piston
- \bullet Accurate dispensing as low as $0.1 \mu l$

Reagent & sample tray

- 80 reagent positions (40 for R1, 40 for R2)
- 40 sample positions, micro cup & test tube can be used
- Non-stop cooling system with peltier pad inside, 24 hours 2°C -14°C
- Bar code reader (optional)

Reaction tray

- 44 disposable cuvettes
- Reaction volume as low as 150µl
- Stable & accurate temperature(37±0.1°C) for reaction

Advanced operating system

- User friendly software interface simple, easy-to-operation
- Sample automatic dilution(decrease, increase, normal)
- Reaction result automatic checking and warning, calibration result automatic

checking, warning alarm log

- Linear & nonlinear calibration, Multi-points calibration up to 8 points
- Quality control apply to westgard, L-T plot, cumulative

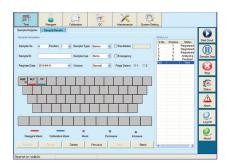














Technical specifications

General information		Mixing system	
Machine type	Random access, open reagent & locked reagent (optional)	Mixer	paddle-type mixing, effective reducing of carry-over
Test speed	Constant 150 tests/hour (Mono reagent or double reagent)		
Test principle	Colorimetric method, turbidimetry		
Test method	1 point end, 2 point end, Fixed-Time, Kinetics	Optical system	
Calibration type	Linear & nonlinear	Light source	Halogen lamp
		Wavelength	340nm; 405nm; 450nm; 505nm; 546nm; 578nm; 630nm
•			700nm (4 more options)
Sample unit		Absorbance range	0-4.0 Abs
Sample tray	40 sample positions	Resolution	0.0001 Abs
Sample tube	Micro cup & Test tube & Blood collection tube can be used.		
	(ø 12 -13)mm * (25 — 100)mm		
Sample volume	2-30µl, step by 0.1µl	Operation syster	n
Sample probe	Liquid surface detection, timely tracking for liquid volume.	Operation system	Windows XP, Windows 7, Windows 8, Windows 10
	Collision avoidance	Data processing	Automatic calibration, test combination, effective time
Sample barcode	Sample barcode reader (optional)		management of reagents, serum index, whole process
			de-tection, linear expansion of enzyme, blank
			deduction, dirty cuvette memory, cross infection
Reagent unit			prevention, patient information memory and association input, automatic report audit, data fuzzy query, report
Reagent tray	80 reagent positions (40 for R1 & 40 for R2), Non-stop cooling		statistics and printing, reference range grading, alarm
	system with peltier pad inside, 24 hours 2°C-14°C, open system,		information classification, user operation privilege
	could accept any reagent		classification management.
Reagent volume	20-300µl, step by 1µl	Report printing	6 formats optional, surpport custom pattern
Reagent needle	Liquid surface detection, timely tracking for liquid volume.		
	Collision avoidance.	Interface	TCP/IP network interface
Regent barcode	Regent barcode reader (optional)		
		Working conditio	ns
		Power supply	AC 110/220V ± 10%, 50/60 Hz, 650W
Reaction unit		Water consumption	6L/hour(maximum)
Reaction tray	44 reaction cuvettes, new amorphous optical plastics	Dimension	750mm • 535mm • 475mm (L*W•H)
	reaction cups, perfect transmittance.	Weight	80kg
Reaction volume	150µl-330µl		oung
Reaction time	10 minutes		
Temperature	Peltier pad incubation system, reaction temperature		

(37°C ± 0.1°C)

