

**TATA MD**  
**CHECK**  
**EXPRESS**  
**PCR**



**Real-Time PCR  
made simple!**

# Tata MD CHECK ExpressPCR



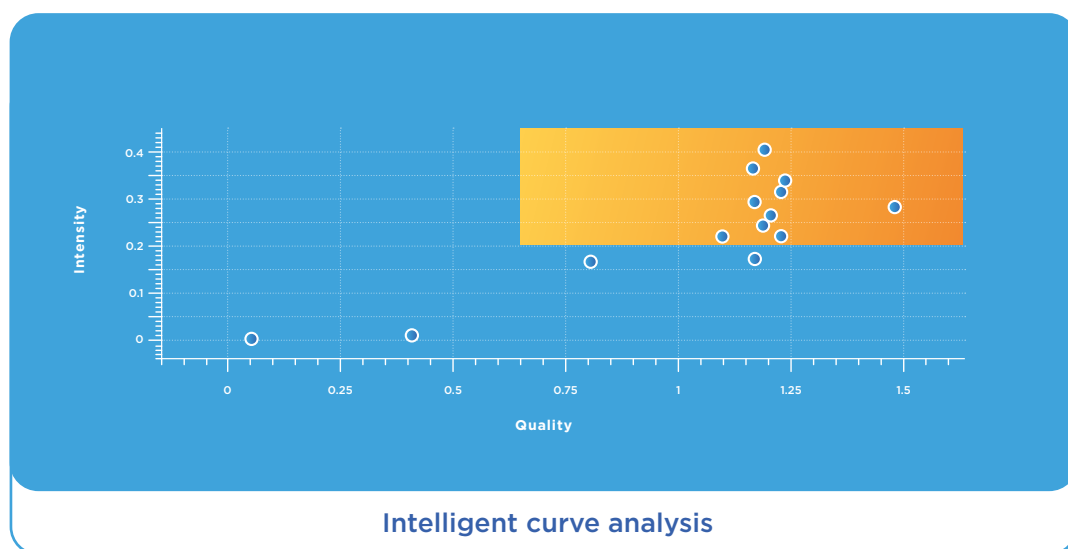
## State of the art real-time PCR system at the right price

A compact RT-PCR system that sets new standards in convenience, reliability and affordability of molecular testing infrastructure for growing labs.

# Convenient



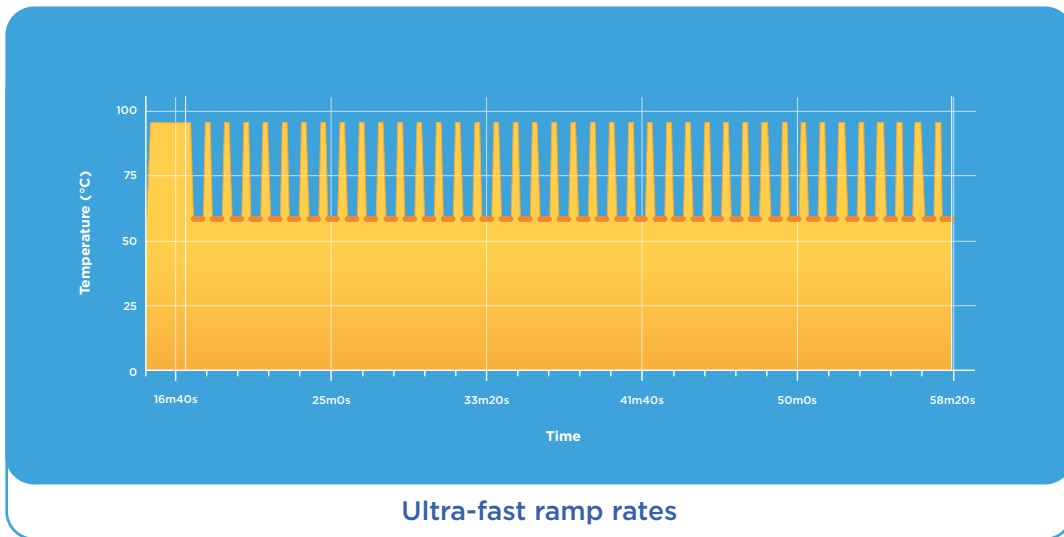
- Compact 1ft x 1ft x 1ft footprint, plug and play operation
- Flexible batch size, 32 wells, 10 $\mu$ L-100 $\mu$ L reaction volume
- No calibration, low maintenance, highly portable



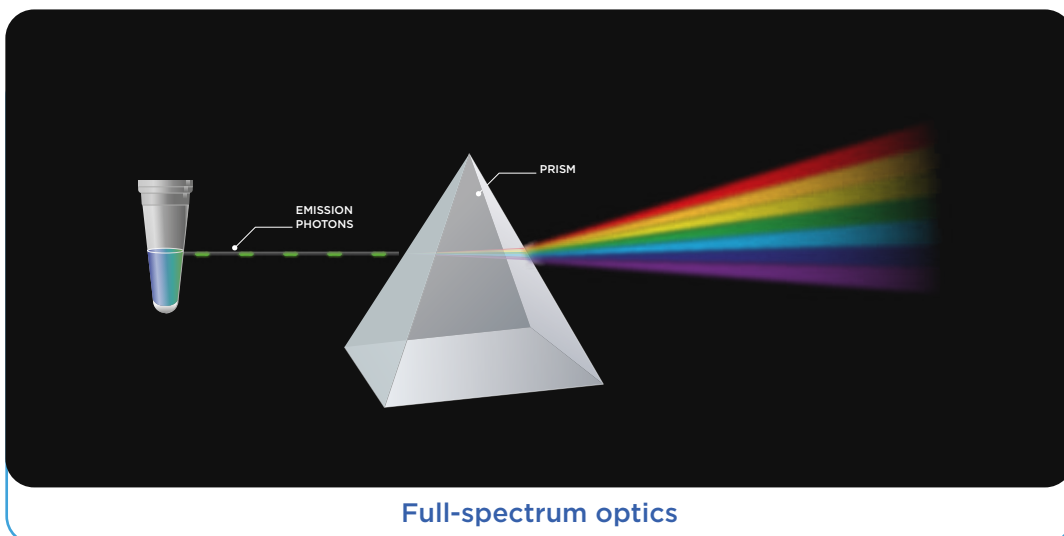
- Intuitive software with auto-flagging of poor quality results, no pre-labelling required
- Ultra-fast ramp rates; Turnaround time <45 min for 40 cycle PCR\*
- Designed to work with a variety of kits and advanced techniques, including quantitative tests, fast polymerases and extraction-free assays

\*for Tata MD CHECK RT-PCR XF assay

# Reliable

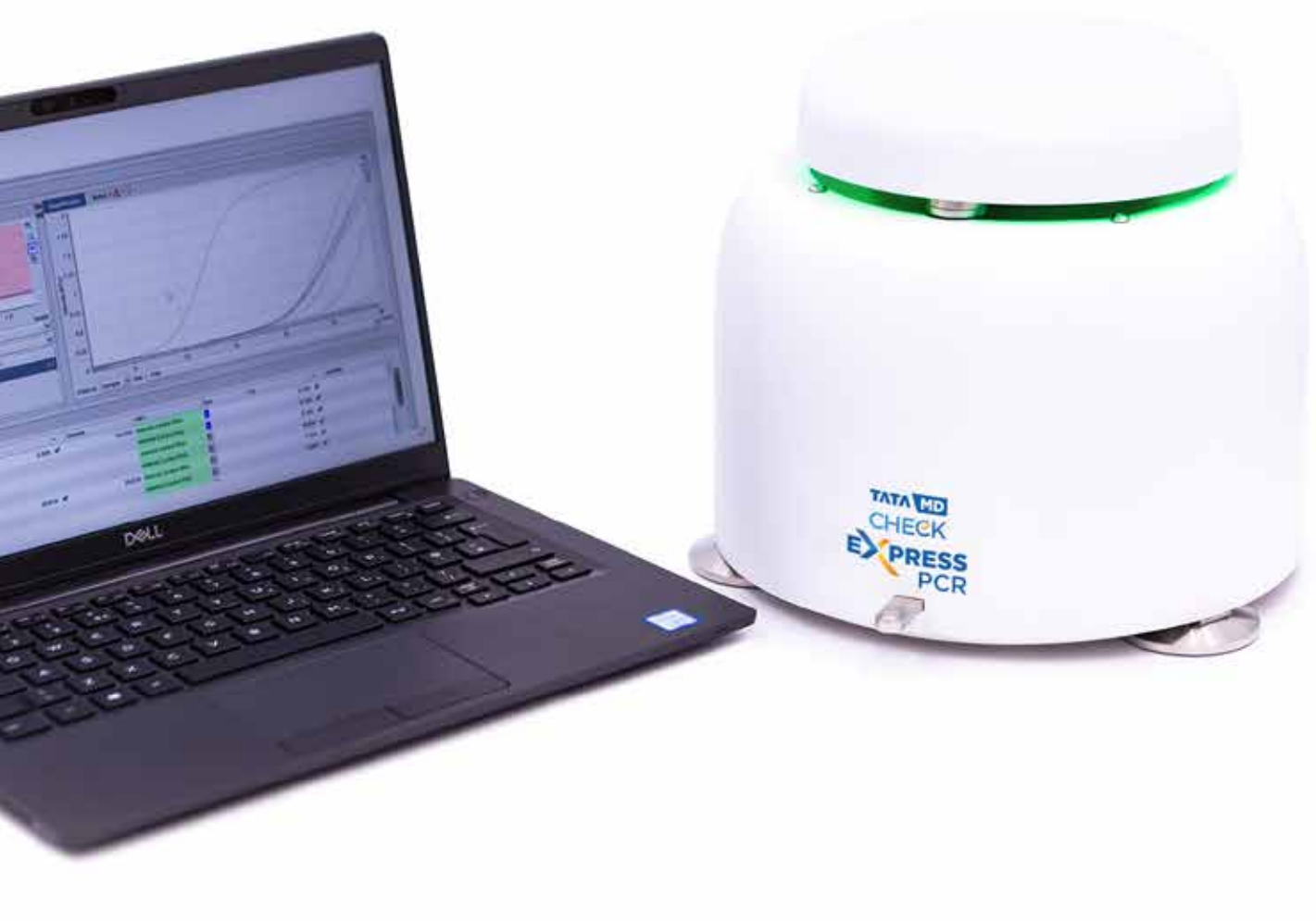


- Robust Peltier element and heated lid
- LED-based illumination using advanced fibre optics, minimal cross-talk
- Industry-leading edge-to-edge temperature uniformity



- Full-spectrum optics, 5 targets multiplexing
- Fast, simultaneous all-well data acquisition, no fluorescence loss
- 10 pre-calibrated dyes for precise data capture across kits

# Affordable



- Fast run time, maximum capacity utilization
- Multi-instrument operation from a single laptop
- Savings in infrastructure and workforce costs
- No moving parts, no calibration, low maintenance, highly portable





## Service & Support

- Multiple support touchpoints to ensure instrument uptime
  - Toll-free number for technical support
  - Remote troubleshooting
  - Pan India onsite visit by Tata MD expert
- One year warranty with free lifetime software upgrades
- Affordable service packages
- Lab workflow digitization is available with automated integration to lab LIS or a specially designed Tata MD LIS platform.

# Specification

Physical Attributes	
Dimensions	W 25cm x D 27cm x H 23cm
Weight	7kg
Operating noise	<40 db(A)
Electrical	
Voltage	100 - 240V AC +/- 10%
Frequency	50-60Hz +/- 10%
Power	170W
Temperature	+15°C to +32°C
Humidity	30-80% at +32°C
Thermal systems	
Temperature control Method	Peltier
Temperature Range	37-99°C
Ramp rate	5°C/s heating, 4°C/s cooling
Accuracy	+/- 0.25°C
Uniformity	0.05°C (SD)
Resolution	0.01°C
Heated Lid	Yes. Preheated at 105°C
Optics	
Illumination	LED
Detection	CMOS
Fluorescence detection	From Bottom
Dyes	SYBR Green I, ResoLight, FAM, VIC, HEX, Cy5, ROX, LC Green, SYTO 9, Cy5,5.
Reaction capabilities	
Number of wells	32
Reaction vessel	0.1ml single tubes / strips
Reaction volume	10 - 100µl
Run time	< 45 minutes*
Multiplexing capabilities	5 targets
Performance	
Sensitivity	Single copy detection
Dynamic range	9-log
Precision	1.1 fold discrimination
Supported chemistries	Intercalating dyes, (e.g. SYBR Green I), Hydrolysis Probes, HybProbes, SimpleProbes, Molecular, Beacons
Software	
Operating System Compatibility	Windows, MacOS and Linux

Please reach out to use for more details at [enquiry@tatamd.com](mailto:enquiry@tatamd.com) or

Visit our website [www.tatamd.com](http://www.tatamd.com)

\*for Tata MD CHECK RT-PCR XF assay

# Single-source for all COVID molecular testing needs

**Express COVID testing solution**

Tata MD CHECK XF with Tata MD ExpressPCR analyzer



- 60 mins sample to result, 3 genes, extraction free COVID-19 testing solution.
- Only scalable rapid PCR test; 30 samples in one go.

**Omicron specific RT-PCR Test**

Tata MD CHECK OmiSure



- Confirmed Omicron identification, combined with SARS-CoV-2 detection at point of first line testing.
- No sequencing required

**No-Extraction Kit**

Tata MD CHECK XF



- The only direct processing kit with 3 genes + IC
- No RNA extractors required

**Fast Amplification RT-PCR**

Tata MD CHECK Fast



- 3 gene targets kit with 40 minutes fast amplification

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- 2 gene targets kit with 40 minutes fast amplification

**Conventional RT-PCR Test**

Tata MD CHECK 3Gene



- Variant-proof testing with 3 gene targets kit

Tata MD CHECK Flex



- Reliable 2 gene targets kit