



MFI MELT FLOW INDEXER

Galaxy Series QualiFi-5000

MFI Melt Flow Indexer

Galaxy Series QualiFi-5000

The Galaxy Series QualiFi-5000 is a state-of-the-art, **high-precision, yet cost-effective** tabletop Melt Flow Indexer designed to accurately measure both the **Melt Mass-Flow Rate (MFR)** and **Melt Volume-Flow Rate (MVR)** of a wide range of thermoplastic materials, including granules and film strips.

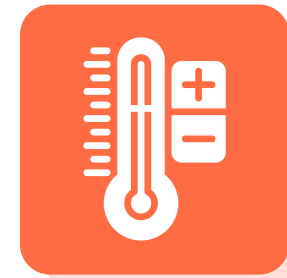
Conforming to **ASTM D 1238**, **ISO 1133**, and other international standards, it is ideal for engineering plastics like polycarbonate, polyarylsulfone, and fluoroplastics, which have high melting points, as well as materials with lower melting temperatures, including polyethylene, polystyrene, polypropylene, ABS resin, and polyoxymethylene resin. Additionally, it is also suitable for measuring temperature- and humidity-sensitive materials.

This instrument is widely used across industries such as plastic manufacturing, plastic products, and petrochemicals, as well as in universities, research institutions, and inspection agencies.

Elevate your plastics testing capabilities with the innovative Galaxy Series QualiFi-5000, the perfect blend of quality, modern technology, and cost-efficiency.



FEATURES/ADVANTAGES



Precision Temperature Control and Heating Efficiency

Intelligent heat conduction and balanced distribution ensure a temperature deviation within $\pm 0.1^{\circ}\text{C}$. The digital control algorithm provides quick response, smooth heating, and faster recovery, making it highly efficient.



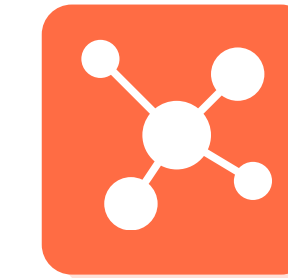
Stable High-Temperature Performance

Designed for reliable continuous operation, the Galaxy Series maintains stability even at temperatures up to 450°C , ensuring consistent results under demanding conditions.



Enhanced Measurement Accuracy

Equipped with a high-precision displacement measurement module, this instrument offers improved accuracy in melt flow rate testing, essential for precise data collection.



Eco-Friendly and Durable Design

Constructed with eco-friendly thermal insulation and integrated molding processes, the Galaxy Series provides excellent insulation. The advanced surface treatment also enhances durability and resistance to salt spray.



Advanced Flow Rate Testing Capabilities

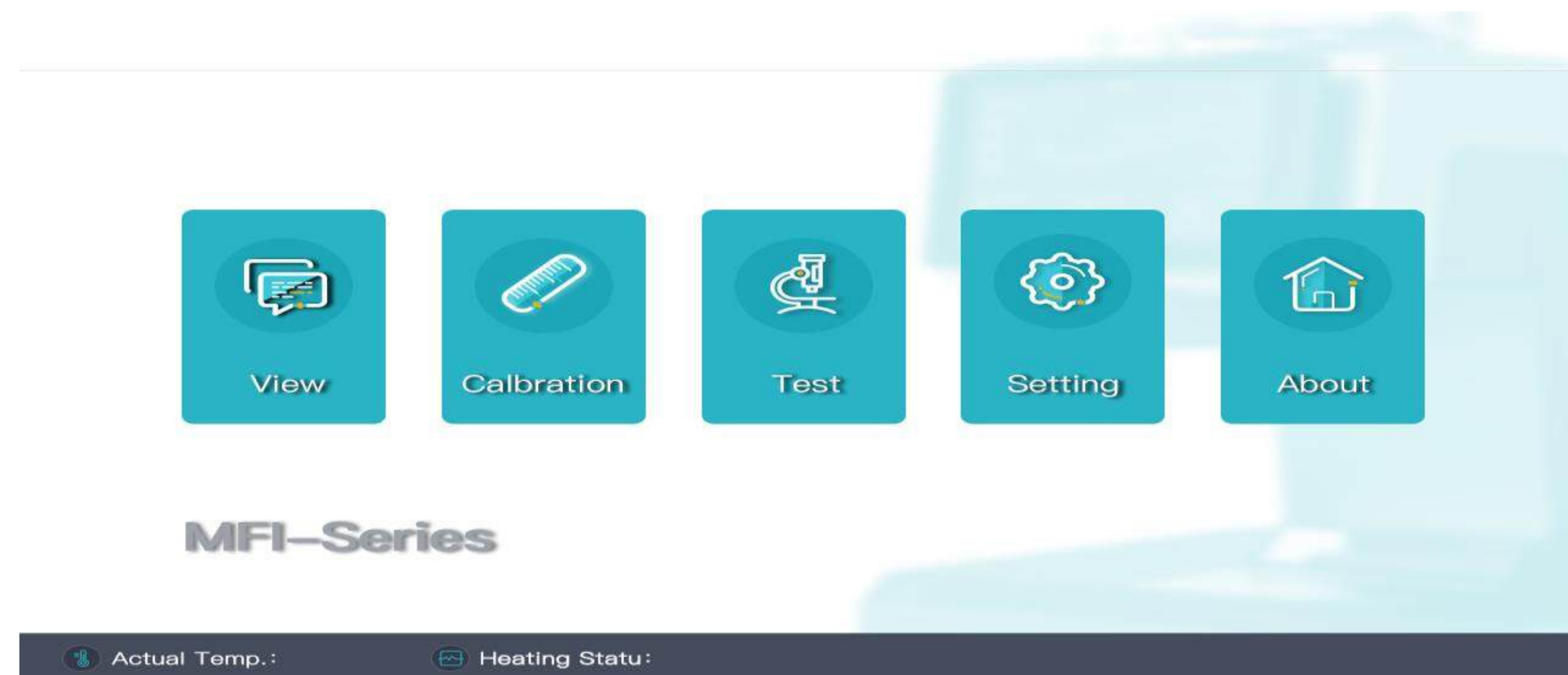
Accurate serial timing significantly enhances flow rate testing, with a maximum capacity of up to $3000\text{ cm}^3/10\text{ min}$, allowing for consistent and repeatable measurements.



User-Friendly Operation and Enhanced Usability

Designed for ease of use, the instrument includes an integrated die plug to prevent overflow, a variable-angle observation mirror for better visibility, and upgraded accessories to improve quality and user experience.

SOFTWARE

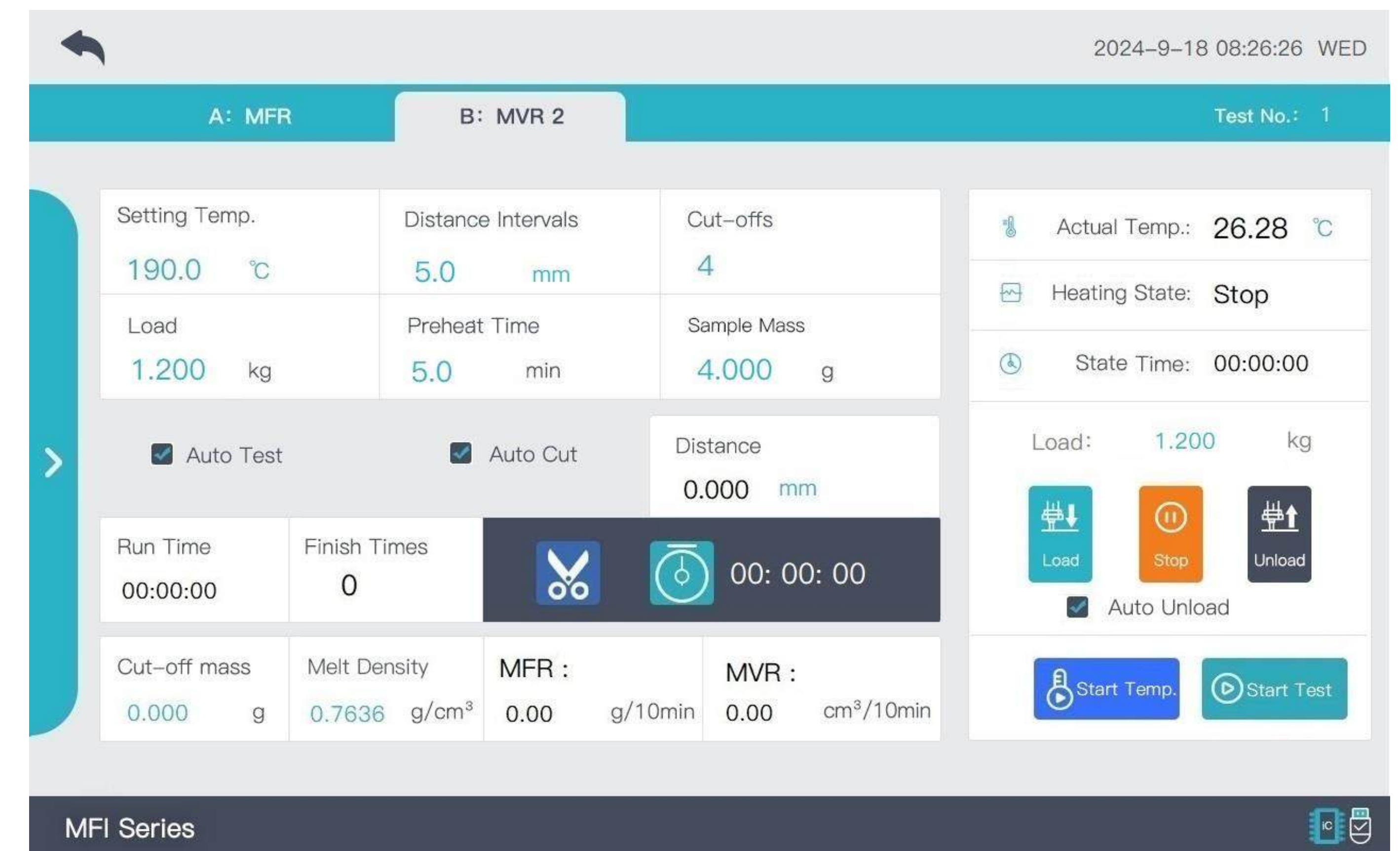


User-Friendly Interface:

Navigation-based operating system with a simple, practical interface that offers strong guidance, comprehensive information, and a clear operation process, making it easy to use and remember.

Standard Compliance:

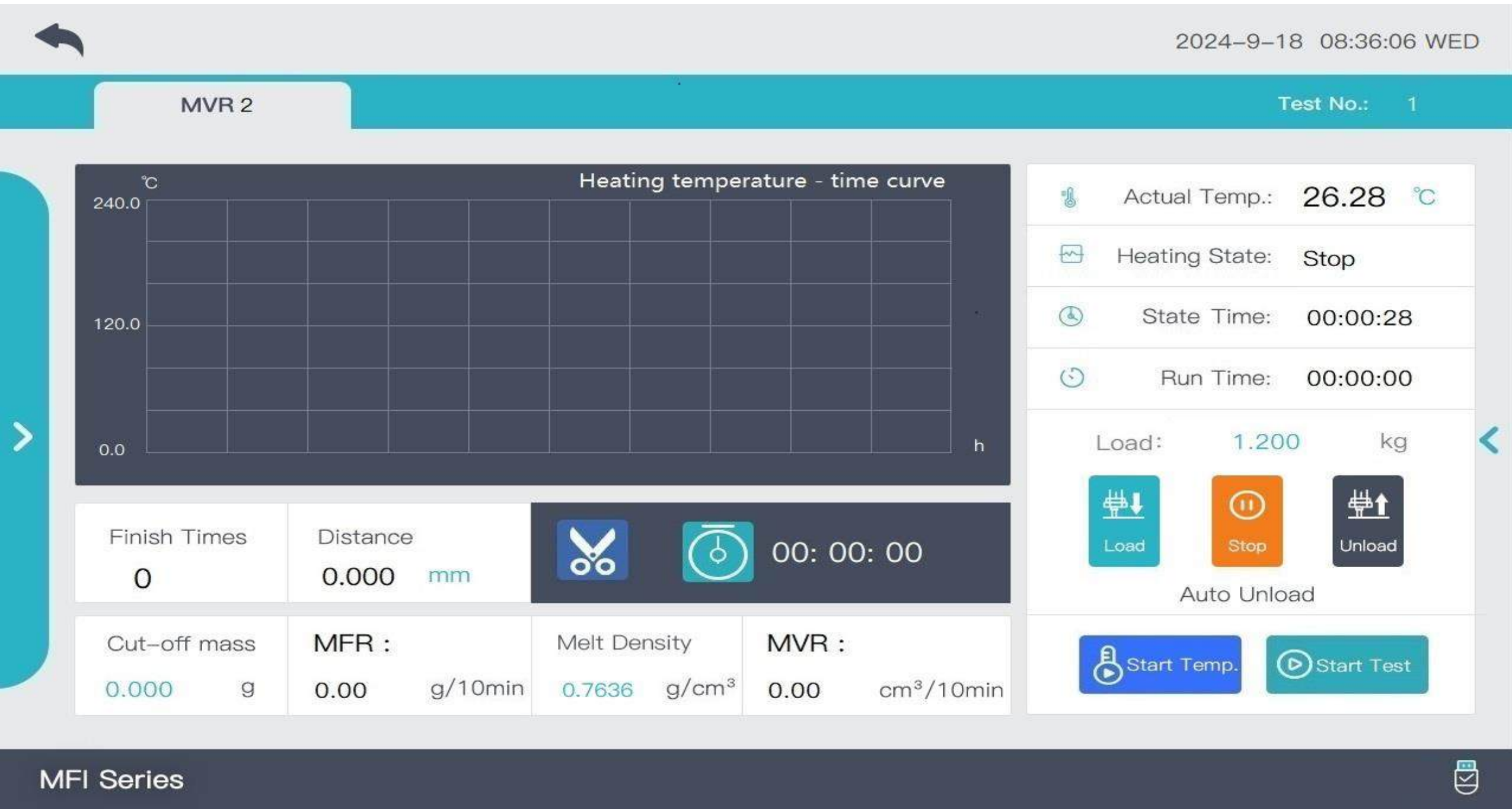
Automatically identifies effective test intervals as specified in ISO and ASTM standards.



Versatile Testing Capabilities:

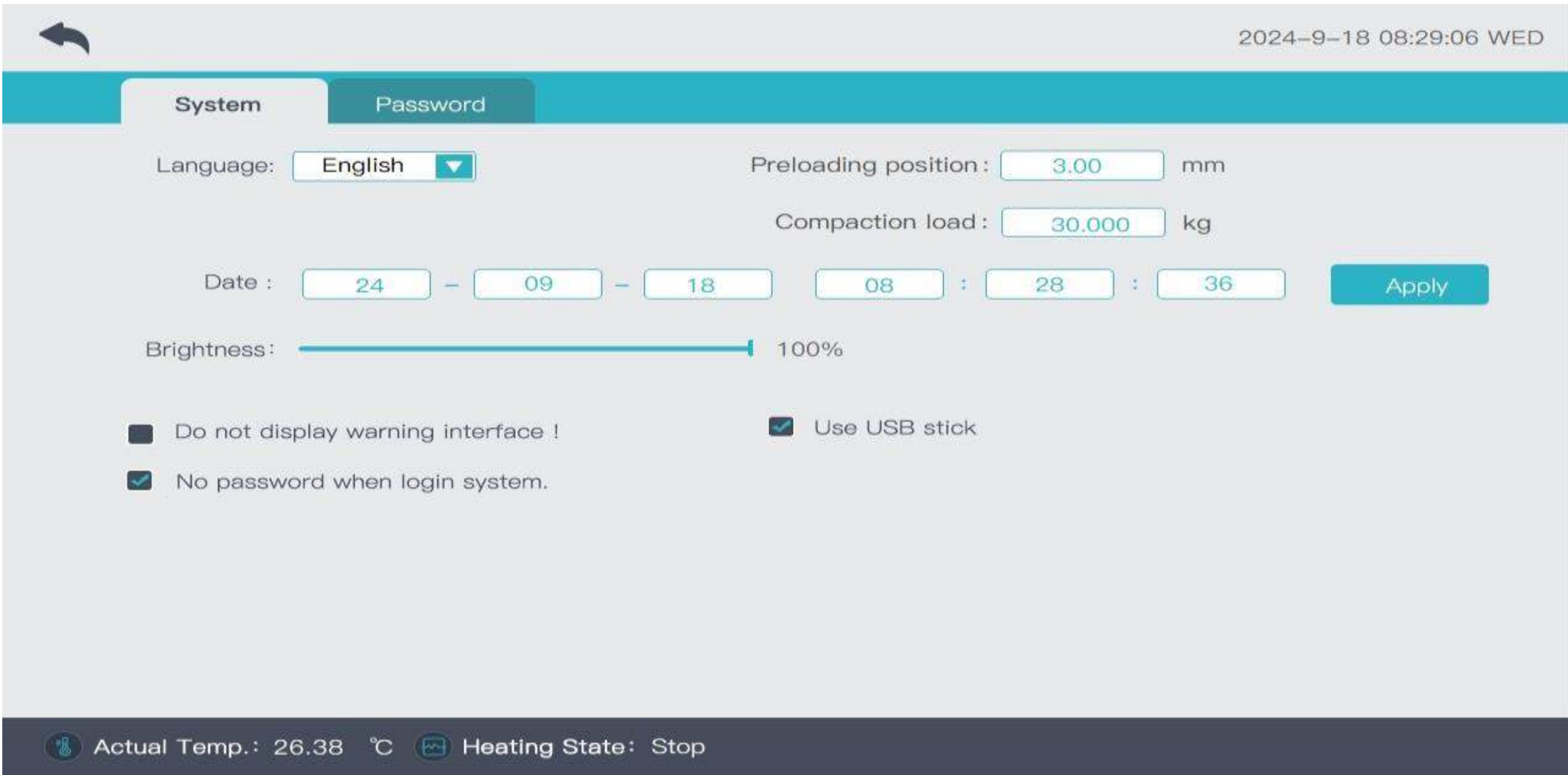
Supports both MFR (Melt Flow Rate) and MVR (Melt Volume Rate) testing, including parameter setting, automatic cutting, calibration, automatic start, timing, and result calculation.

SOFTWARE



Automatic MFR Calculation:
During MVR testing, the MFR value can be automatically determined based on the input specimen material's density.

Real-Time Curve Display:
Records time-temperature and MVR-time curves, providing visualizations of temperature fluctuations and test consistency.



Preloaded Test Parameters:
Built-in multiple test parameters simplify setup, improving testing efficiency.

Dual Control Options:
Operable via both PC and touch screen, enabling Remote Data Sharing (RDS).

Flexible Data Management:
Supports USB storage and data export; built-in DMS data management software allows for data viewing and report generation from a computer.

TECHNICAL SPECIFICATIONS

PARAMETERS	VALUE
Test mode	MFR/MVR
Measuring range	MFR: 0.1~100g/10min
	MVR: (0.1~3000) cm ³ /10min
Display mode	Full-color touch screen
Cutting method	Auto
Temperature range	(50~450)°C
Temperature resolution	0.01°C
Temperature error	≤±0.2°C
Temperature fluctuation	≤±0.2°C
Timer error	≤±0.2%
Load error	≤±0.3%
Temperature deviation with distance from 0~70 mm above the die	≤±0.3°C
Temperature recovery time	≤ 2 minutes
Piston displacement measuring error	≤±0.02mm
Weight	0.325kg, 1.20kg, 2.16kg, 3.80kg, 5.00kg, 10.00kg, 21.60kg
Internal diameter of cylinder	9.550mm±0.007mm

PARAMETERS		VALUE
Piston Loading	Head Diameter	9.474mm±0.007mm
	Bottom Corner Radius	R0.4° _{-0.1}
Die	Internal diameter	2.095mm±0.005mm
	Length	8.000mm±0.025mm
Half Die (Optional)	Internal diameter	1.050mm±0.005mm
	Length	4.000mm±0.025mm
Electrical Requirement	Voltage	220×(1±10%) VAC, 50Hz, 500W Single phase three wires (110V also available upon request)
	Grounding requirements	According to local regulations
Working Condition	Environment temperature	10°C~40°C
	Relative humidity	30%~80%
	Note: The instrument should be fixed on a sturdy base, free from vibration, and operate without strong electromagnetic interference or strong air convection.	
Dimension and Weight	Net Dimension	555mm × 440mm × 840mm
	Host Weight	75kg (165 lbs)

STANDARD CONFIGURATION	
ITEM	QUANTITY
Main Unit	1 set
Accessories box (including following items)	1 set
Piston Rod	1
Die	1
Die Cleaning Tool	1
Cut-off knife	1
Cleaning Tool	1
Charging Tool	1
Lever Meter	1
Guiding Bushing	1
Funnel	1
Cylinder	1
Spanner	1



[USA](#) | [Canada](#) | [UAE](#) | [GCC](#) | [EU](#) | [Asia](#) | [Africa](#) | [Latin America](#)

Contact us for your nearest regional sales office, service center or distributor.

Toll-Free: 1.877.884.TEST (8378) | **Fax:** 954.697.8211

info@qualitest-inc.com | www.WorldofTest.com

Qualitest USA:

8201 Peters Rd., #1000, Plantation, FL 33324, USA

Qualitest International:

70 East Beaver Creek Rd., #9, Richmond Hill, Ontario L4B 3B2, Canada

Qualitest FZE – GCC/Middle East/Africa:

Jafza One, BB 1610, Jebel Ali Free Zone, PO Box 261440, Dubai, UAE

Qualitest India:

15th Floor, Dev Corpora, Pokhran Road No.1, Eastern Express Highway, Thane, Maharashtra, Mumbai, 400601, India

Qualitest Singapore:

50 Raffles Place, Singapore Land Tower Level 46, Singapore, 048623, Singapore

Qualitest Indonesia:

One Pacific Place Level 11, Jl. Jend. Sudirman Kav. 52-53, SCBD Area, Jakarta 12190, Indonesia

