WORLD
PRECISION
INSTRUMENTS

EVOM™ AUTO

Accelerate Your Drug Discovery with Our New EVOM™ System With Both 24 and 96 HTS Multiwell Plate Capability

www.wpi-europe.com

Automated TEER Measurement System

EVOM™ Auto with both 24 and 96 HTS multiwell plate capability is a high throughput screening (HTS) platform offering fast, non-invasive sample scanning by comparing electrical resistance measurements (transepithelial/transendothelial electrical resistance: TEER). TEER measurement experiments are simple to set up and less time consuming than more complex molecular studies. TEER measurement can be used as the primary scanning method to identify any physiological changes that can then be further evaluated by other methods. EVOM™ Auto can capture TEER measurements in 24 and 96 HTS multiwell plates from Corning, Millipore, or MatTek. The sample preparation time in these HTS plates is efficient, allowing for fast, multi-channel pipetting options.

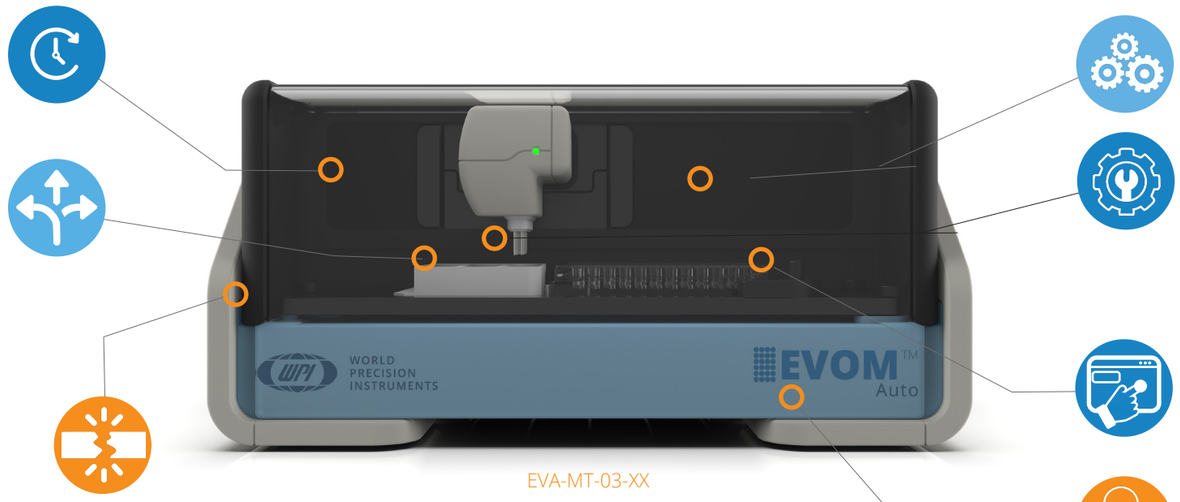
Additionally, the EVOM™ Auto electrode disinfection capability during measurement minimizes sample cross-contamination. Its wireless device control offers the convenience of operating the instrument from a distance, and the small footprint of EVOM™ Auto enables you to use it inside a sterile cell culture hood or an incubator. The EVOM™ Auto provides a fast and efficient platform for early drug discovery, by narrowing down drug targets and drug concentrations through automated, non-invasive sample scanning.

EVOM™ AUTO EXPEDITES DRUG DEVELOPMENT AND LIFE SCIENCE RESEARCH BY ACCELERATING:

- *Hit Discovery Process*
- *Hit To Lead*
- *Target Screening, Identification and Validation*
- *Formulation Optimization & Improving Bioavailability*
- *Assay Development*
- *Safety Assessment: Toxicity*
- *Quality Control of 2-D and 3-D*
- *In Vitro Tissue Models in Drug Discovery*

APPLICATIONS

- Confluence of Monolayer
- Toxicity
- Blood Brain Barrier (BBB)
- Epithelial and Endothelial Barrier Studies
- Intestinal Drug Absorption: ex. Caco-2, 3-D Tissue Function, Primary Cell
- Lung *In Vitro* Models for COVID Study, Lung Viral Infection
- Cancer Tissue Studies
- Antibody-Antigen Binding



EVA-MT-03-XX

SPECIFICATIONS

Autosampler Dimensions (W×D×H)	16×10×8.4"
Autosampler Weight	15 lbs.
Compatibility	Corning, Millipore, and MatTek 96-well HTS Plates with 96 -well electrode array (EVA-EL-03-01) Corning 24-well HTS plates with 24C electrode array (EVA-EL-03-02) Millipore 24-well HTS plates with 24M electrode array (EVA-EL-03-03)
Rinse Stations	3

Electrode Array for 96 HTS Plate	Array of 8 pair of (1.2mm Φ) electrodes
Electrode Array for 24 HTS Plate	Array of 4 pair of (1.2mm Φ) electrodes
Minimum Sample Reading Time	1 Second
Control Device to Run Software	Tablet, Laptop, Desktop with Wi-Fi adapter
Output Data	CSV/Microsoft® Excel
Resistance Range	10KΩ, 50KΩ, 100KΩ
CE Certified	Yes

SYSTEM (CONFIGURATION) OPTIONS

- EVA-MT-03-01 for 96-well HTS (Corning, Millipore, MatTek)
- EVA-MT-03-02 for Corning 24-well HTS
- EVA-MT-03-03 for Millipore 24-well HTS

NOTE: The system configurations can be used for any of the listed plate types (24 or 96) by easily switching the electrode arrays and plate adapters. The electrode array heads and plate adapter switch mechanism enables you to analyze samples in different plate types.

SAVE TIME BY AUTOMATING YOUR PROCESS AND MOVE THROUGH A PLATE QUICKLY

FLEXIBILITY TO MANAGE YOUR DATA

MINIMIZE HUMAN ERRORS

HARDWARE SETUP IS EASY AND REQUIRES NO CONFIGURATION

MINIMIZE PROBE DAMAGE AND AVOIDS COSTLY REPAIRS

WITH COMPLETE CONTROL OF THE SYSTEM, YOU CAN FINE TUNE THE PROGRAMMING AS DESIRED

EASY-TO-NAVIGATE SYSTEM SAVES TIME WHEN CONFIGURING SEQUENCES

ELECTRODE ARRAY

- Specially designed electrode array fits precisely in the HTS plates from Corning, Millipore, and MatTek, ensuring consistent placement
- Perform resistance measurements directly in the HTS plates, common or divided, reducing the possibility of contamination and mechanical damage to your cultured cells
- Array of multiple electrode pairs enhances the throughput by saving time to read the samples due to shorter sampling time and shorter time requirement for disinfecting electrodes in between measurements
- Measures a whole column of wells each time the electrode array moves once

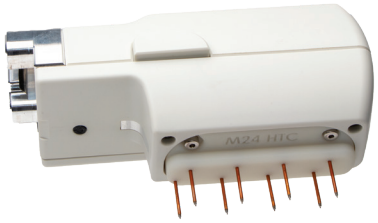
EVA-EL-03-01

96 Well Array

- Measures a Column of 8 Wells Sequentially
- Array of 8 pair of (1.2mm Φ) electrodes

24 Well Array

- Measures a Column of 4 Wells Sequentially
- Array of 4 pair of (1.2mm Φ) electrodes



EVA-EL-03-03

PART NUMBERS

EVOM™ Auto System

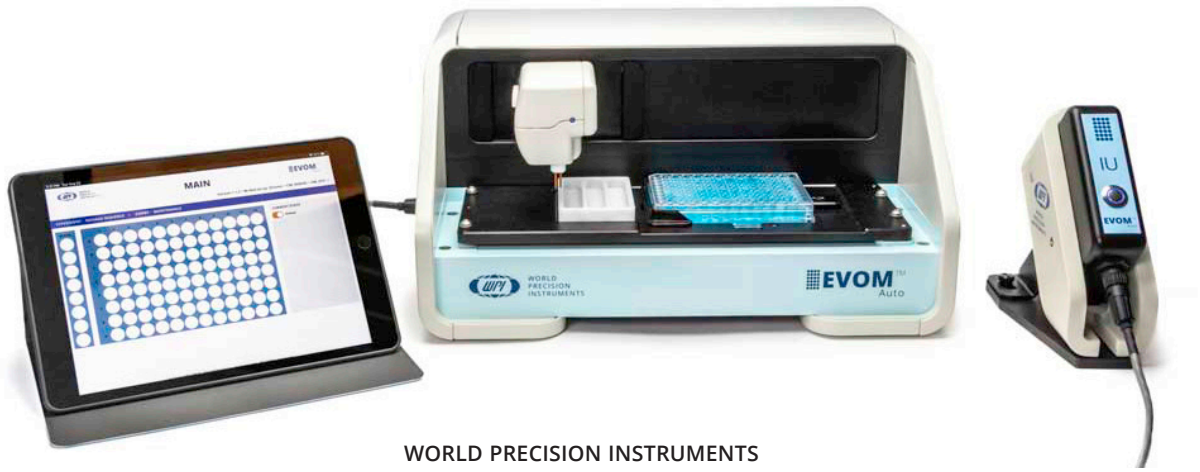
EVA-MT-03-01	EVOM™ Auto for TEER Measurement in 96 HTS Plate
EVA-MT-03-02	EVOM™ Auto for TEER Measurement in 24C HTS Plate
EVA-MT-03-03	EVOM™ Auto for TEER Measurement in 24M HTS Plate
EVA-EL-03-01	EVOM™ Auto 96 HTS Electrode Array for TEER
EVA-EL-03-02	EVOM™ Auto 24C HTS Electrode Array forTEER
EVA-EL-03-03	EVOM™ Auto 24M HTS Electrode Array for TEER

Warranty

EVA-MT-03-EX1	EVOM™ Auto 1 Year Premium Warranty
EVA-MT-03-EX2	EVOM™ Auto 2 Year Premium Warranty
EVA-MT-INST	EVOM™ Auto On-Site Premium Installation

System Includes

EVOM™ Auto TEER Measurement System (EVA-MT-03-xx) includes the autosampler, an electrode array with accessories (for 96 or 24 HTS multiwell plates), an interface unit and its cable, an iPad control tablet with software, and a power cord.



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United States: (866) 606-1974 · wpi@wpiinc.com · **www.wpiinc.com**
UK: +44 (0)1462 424700 · wpiuk@wpi-europe.com · **www.wpi-europe.com**
Germany: +49 (0)6031 67708-0 · wpide@wpi-europe.com · **www.wpi-europe.com**
China: +86 21 6888 5517 · chinasales@china.wpiinc.com · **www.wpiinc.net**