Applied BioPhysics

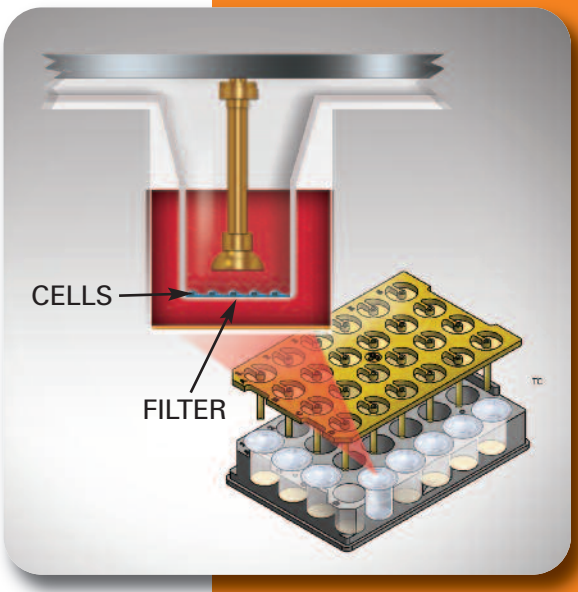
TEER 24

Barrier Function Measurement System

Continuous real-time TEER

10–10,000 ohm-cm^2

- Continuous long-term measurement of TEER from under 10 to 10,000 ohm cm^2 in up to 24 wells
- Uses standard commercially available 6mm membrane inserts
- Fast barrier function dynamics can be monitored
- Accurately measures Endothelial and Epithelial barrier function
- Located in incubator for long term experiments
- Real time visualization of TEER, control of sampling rate
- Group average, and compare data
- Up to 24 wells can be simultaneously displayed and analyzed
- Export data to Excel or other statistical programs
- Data output in CSV or graphical (JPEG, TIFF)



TEER 24 uses standard 6mm filter inserts.

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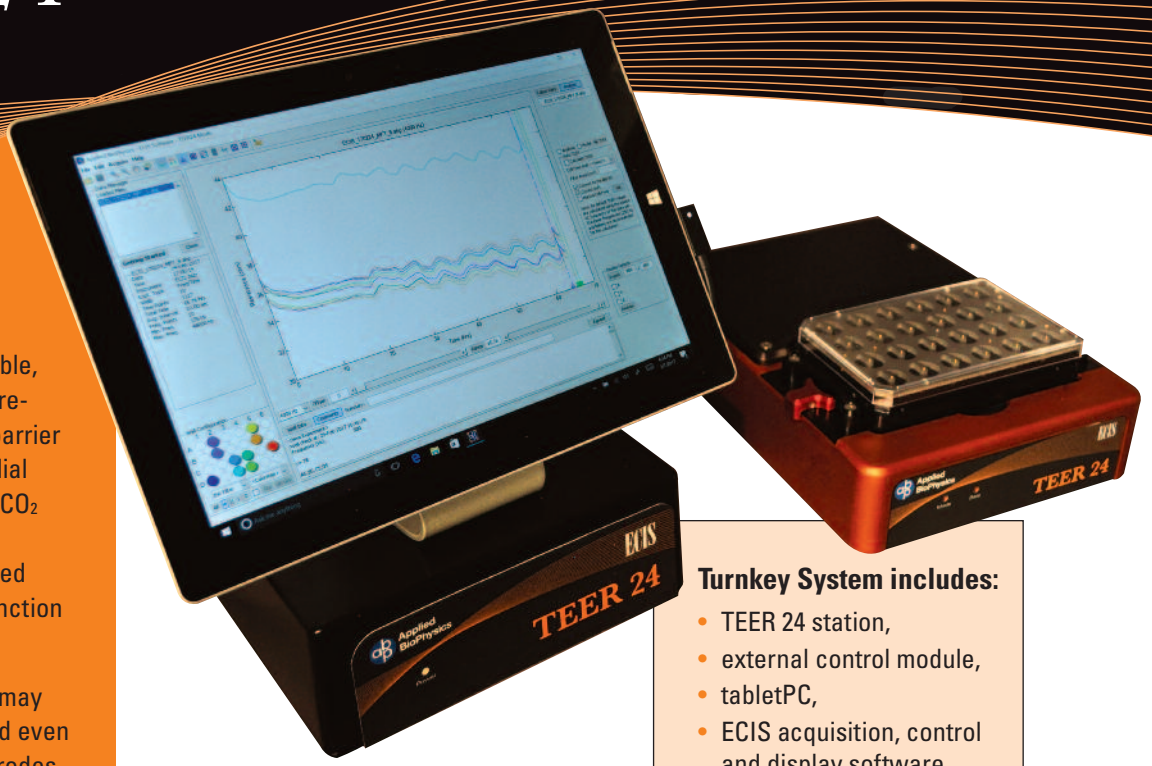
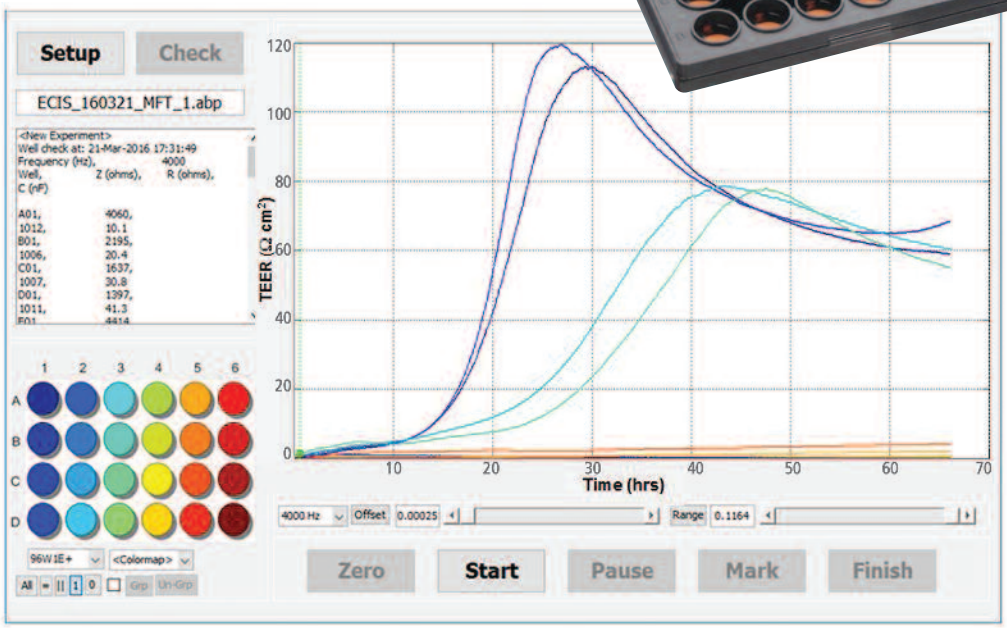


This system provides repeatable, label free automated TEER measurements to electrically monitor the barrier function of epithelial and endothelial cells as they are grown in normal CO_2 high humidity incubators. Data is collected continuously and reported as real-time changes in barrier function of cell layers in ohm-cm^2.

Non-invasive measurements may be made continuously for days and even weeks. The fixed position of electrodes throughout the measurements eliminates operator variability allowing precise and repeatable measurements of endothelial layers with weak barrier function (<10 ohm-cm^2). No need to take the station out of the incubator eliminating temperature variations.

Turnkey System includes:

- TEER 24 station,
- external control module,
- tabletPC,
- ECIS acquisition, control and display software.



Specifications:

- 10 sec/well read rate
- 24 well microplates use standard 6mm filters
- Gold electrodes
- 24 well dipping assembly can autoclaved or oven sterilized
- Station dimensions 10 x 3 x 15cm
- Power: 3 watts
- Windows 10 OS

Distributed by:

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