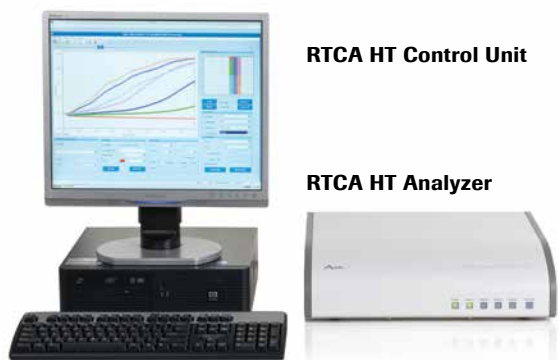


xCELLigence System RTCA HT Instrument

HTS Expanded. Peace of mind.



RTCA HT Control Unit

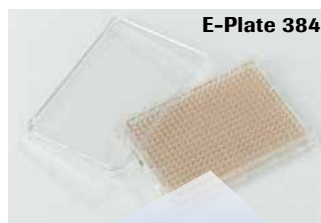
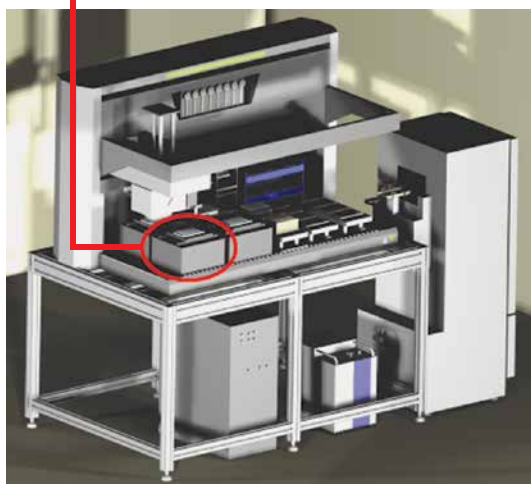
RTCA HT Analyzer

- Obtain faster results with quantifiable real-time high information content for secondary screening.
- Increase throughput and screening flexibility by monitoring short- and long-term assays.
- Generate physiologically relevant data by using primary and stem cells to assess endogenous receptors.

RTCA HT Plate Stations



Integrated into Automation Platform



**For life science research only.
Not for use in diagnostic procedures.**

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xCELLigence® RTCA HT System:

Label-free, real-time cellular analysis for high-throughput screening applications



xCELLigence® technology is now available for high throughput screening via modular 384-well plate stations designed for use on robotic platforms. Up to four 384-well plates stations can be used in parallel for increased throughput and flexibility.

The xCELLigence® Real-Time Cell Analysis (RTCA) systems provide a unique and powerful means to monitor cells in real-time without the potential artifacts generated through the use of labels. The non-invasive measurement of cellular impedance enables detection of changes in cell adherence, morphology and viability without the need for over-expression of reporter and target proteins. This provides highly physiologically relevant data throughout the entire time course of the experiment.

The xCELLigence E-Plate® 384 features an innovative micro-electrode configuration that covers 80% of each well bottom's surface area. Real-time measurement of impedance across these electrodes provides sensitive detection of cell health and behavior from low cell numbers to confluency. This enables a wide array of potential applications including (but not limited to):

- Functional monitoring of GPCR and receptor tyrosine kinase signaling
- Cell proliferation
- Cell quality
- Compound-mediated cytotoxicity
- Cell-mediated cytotoxicity
- Cell adhesion and spreading



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| RTCA HT Station |
|--|
| Dimensions: 16.5 cm x 24.0 cm x 13.5 cm (W x D x H) |
| Weight: < 10.0 kg |
| Electrical Input: +5V, -5V, +12V, 15 W max |
| Electrical Switch Resistance: 7-12 Ω |
| Electrical Interface: Handling one E-Plate® 384 device |
| Communication: RS232 serial communications at a band rate of 57,600 bits/second |
| Environment: +15° C to +32° C, relative humidity: 80% max, up to +32° C, without condensation |
| Status Indicators: Single led for System, Heater, and Motor status |

| E-Plate 384 |
|---|
| Footprint: Compliance with ANSI/SBS 1-2004 requirements |
| Dimensions: 12.77 cm x 8.55 cm x 1.75 cm (W x D x H) (with plate cover) |
| Spacing: The spacing of the wells is 4.5 mm center-to-center as per the ANSI/SBS 4-2004 standard for 384-well titer plates |
| Volume: 95 μ l \pm 5 μ l |
| Bottom Dimension: (2.5 \pm 0.1 mm) x (2.5 \pm 0.1 mm) |
| Electronic Interface: Interface with RTCA HT Station |
| Sensor Impedance: 112 Ω \pm 22 Ω at 10 kHz, when measured with a 1x PBS Solution |
| Material: Biocompatible surfaces |
| Gamma ray irradiated |
| Environment: +15° C to +40° C, Relative humidity: 98% maximum without condensation |

xCELLigence® RTCA HT System:

Label-free, real-time cellular analysis for high-throughput screening applications



RTCA HT Control Unit

- ≥ 160 GB Hard disk drive
- ≥ 1 TB second Hard disk drive
- ≥ Intel Pentium Dual Core 1.8 GHz
- ≥ 2 GB Ram
- Qty 2 Ethernet Cards
- 2 USB 2.0
- ≥ 256 MB Graphics device
- ≥ 19" monitor with 1280 x 1024 pixels display resolution

RTCA HT Analyzer

- Dimensions:** 45.0 cm x 45.0 cm x 11.0 cm (W x D x H)
- Weight:** < 13.6 kg
- Electrical Input:** 100-250 VAC, 50-60 Hz, 80 W max
- Output Test Signal:** 22mV rms ± 20% with max. 5 mV DC off-set at 10, 25 and 50 kHz
- Impedance Measurement Accuracy:** ± (1.5% at 1 Ω)
- Impedance Measurement Repeatability:** 0.8%
- Impedance Dynamic Range:** 50 Ω to 2 kΩ
- Communication:** USB-to-RS232 serial communications at a band rate of 57,600 bits/second
- Environment:** +15° C to +32° C, Relative humidity: 80% max. up to 32° C, without condensation
- Status Indicators:** Power and four separate analyzer status LEDs (one for each channel)
- Analyzer self-test button

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Not for use in diagnostic procedures.**



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