

Agilent xCELLigence RTCA eSight

Site Preparation Checklist

Thank you for purchasing an Agilent **xCELLigence RTCA eSight** instrument. To get you started and to ensure a successful and timely installation, please refer to this specification or set of requirements.

Correct site preparation is the key first step in ensuring that your instruments and software systems operate reliably over an extended lifetime. This document is an information guide and checklist prepared for you that outlines the supplies, consumables, space, and utility requirements for your equipment.

Introduction

Customer Responsibilities

Ensure that your site meets the following specifications before the installation date.
For details, see specific sections within this checklist, including:

- ☐ The necessary laboratory or bench space is available.
- ☐ The environmental conditions for the site as well as laboratory gases, plumbing and extraction.
- ☐ The power requirements related to the product (e.g. number and location of electrical outlets).
- ☐ The required operating supplies necessary for the product and installation.
- ☐ A compatible CO2 incubator that is the correct size and volume to fit the eSight (recommended 230 Liters internal volume).
- ☐ If Agilent is delivering Installation and Familiarization services, users of the instrument should be present throughout these services. Otherwise, they will miss important operational, maintenance, and safety information.

WARNING

Changing or modifying the RTCA eSight instrument safety equipment may prevent the safe operation of the RTCA eSight instrument, invalidate its safety compliance, and lead to personal injury or property damage. Any customer who does not use the supplied safety equipment or who modifies the supplied safety equipment assumes full responsibility for providing an appropriate level of safety for its operators and for providing the applicable safety compliance marking and documentation.

- ☐ Please consult the [Other Requirements](#) section for other product-specific information.

Customer Information

- 1 If you have questions or problems in providing anything described as a [Customer Responsibility](#), please contact your local Agilent or partner support service organization for assistance before the scheduled installation. In addition, Agilent and/or its partners reserve the right to reschedule the installation dependent upon the readiness of your site.
- 2 Should your site not be ready for whatever reasons, please contact Agilent as soon as possible to re-arrange any services that have been purchased.
- 3 Other optional services such as extra training, compliance services and consultation for user-specific applications may also be provided at the time of installation. Please discuss with your Agilent Sales representative before the installation is scheduled.

Important Customer Web Links

- ☐ You can find the product pages here:
xCELLigence RTCA eSight: <https://www.agilent.com/en/product/cell-analysis/real-time-cell-analysis/rtca-analyzers/xcelligence-rtca-esight-imaging-impedance-741228>
- ☐ Need technical support, FAQs, supplies? – visit our [Support Home Page](#) at <http://www.agilent.com/search/support>
- ☐ Get answers. Share insights. Build connections:
Join the [Agilent Community](#) at <https://community.agilent.com/welcome>

Site Preparation

Dimensions and Weight

Identify the laboratory bench space before your instrument arrives based on the following table.

Pay special attention to the total height and total weight requirements for all system components you have ordered and avoid bench space with overhanging shelves.

Special notes

- 1 xCELLigence RTCA eSight instrument is designed to be placed into a tissue culture incubator. The eSight instrument is compatible with a third-party tissue culture incubator with following general specifications:
 - a. minimum internal dimension: 48.0 cm × 48.5 cm × 60.7 cm (W × D × H).
 - b. Removable water tray and shelf.
 - c. Minimum load Capacity: 50 kg

RTCA eSight instrument sits on a base plate (provided by Agilent) inside the incubator. A stainless-steel water tray (32 x 25 x 3.5 cm) supplied by Agilent should be used instead of the incubator's water tray.

For better air circulation and to minimize condensation, the following incubator is recommended:

PHCbi MCO-230AICUV-PA, 64.3 cm x 52.3 cm x 70 cm (W x D x H); this model incubator also includes unique H₂O₂ decontamination which uses vaporized hydrogen peroxide and UV light and cleans in less than 3 hours. Power requirements of 115V/60Hz/single phase/15 amp breaker.

The incubator is essential for ensuring the proper installation and optimal performance of the eSight instrument. Please consult your Agilent sales representative for guidance on selecting the appropriate incubator.

- 2 A workstation with monitor is required to operate RTCA eSight instrument. The workstation with monitor should be placed on a bench directly adjacent to the tissue culture incubator.

Instrument Description	Weight		Height		Depth		Width	
	Kg	lbs	cm	in	cm	in	cm	in
xCELLigence RTCA eSight	27.2	60.0	41.4	16.2	44.5	17.5	43.1	16.9
Workstation	3.9	8.5	29.3	11.5	29.0	11.4	9.3	3.7
Monitor	3.1	6.9	34.8 (compressed)	13.7	16.5	6.5	53.8	21.2
Recommended Incubator (PHCbi MCO-230AICUV-PA)	90.0	198.4	70.0	27.6	52.3	20.6	64.3	25.4

Environmental Conditions

Operating your instrument within the recommended temperature ranges ensures optimum instrument performance and lifetime.

Special notes

- 1 Performance can be affected by sources of heat and cold, e.g., direct sunlight, heating/cooling from air conditioning outlets, drafts, and/or vibrations. The laboratory's ambient temperature conditions must be stable for optimum performance.
- 2 The tissue culture incubator temperature conditions must be stable for the optimum performance of xCELLigence RTCA eSight instrument.
- 3 The xCELLigence RTCA eSight is designed to be used in a tissue/cell culture incubator with 98% maximum humidity without condensation or in a standard laboratory environment. Do not place anything within 5 cm of the side panels of the instrument.
- 4 The xCELLigence RTCA eSight instrument is intended to operate in a low-vibration environment. Excessive vibration may induce misalignment, blurred images, and robot errors.

Operating Temperature Range	Operating Humidity Range	Pollution Degree
20 °C to 40 °C (68 °F to 104 °F)	5% -98% without condensation	2
Operating CO ₂ Range	Recommended CO ₂ %	
0-20%	5%	

Power Consumption

Special notes

- 1 The total power consumption of the xCELLigence RTCA eSight is generally less than 80 Watt.
- 2 Country specific power outlets will be available for the following specifications.
- 3 Three power outlets are required for the instrument.

Instrument Description	Line Voltage and Frequency (V, Hz)	Maximum Power Consumption (VA)
xCELLigence RTCA eSight	100-240V & 50/60 Hz	80
Workstation	100-240V & 50/60 Hz	200
Monitor	100-240V & 50/60 Hz	68

Required Operating Supplies by Customer for Installation

Special notes

Reagents and consumables which should be available in every cell culture lab:

Item Description (including Dimensions etc.)	Recommended Quantity
Gloves (in the size of our specialist; if our specialist need some gloves without latex – please point it out)	2~4
70% Ethanol or Isopropanol (solution, spray, or wipes)	100~200 ml

Other Requirements

Gas Tanks

- ☐ For the tissue culture incubator, CO₂ is required. Gas tanks should not be used in a closed space or with insufficient air circulation to avoid creating an O₂-deficient or CO₂-rich atmosphere.

Computer Requirements

Below is the computer requirement for RTCA eSight Software:

- Operating System: Microsoft Windows 10/11 (x64)
- CPU: 3.2 GHz or above
- RAM: 8 GB RAM or above
- Hard Drive Free Space: Minimum 1 TB free space
- Monitor Resolution: 1399 x 768 or higher
- Microsoft Office Excel required for data export