

Agilent xCELLigence RTCA eSight

Imaging Specifications	
Imaging Modes	Bright field (autoexposure), Three Fluorescence (Blue, Green, Red)
Fluorescence Excitation/ Emission	Blue: Ex. 370-410 nm/Em. 430-462 nm Green: Ex. 473-491 nm/Em. 503-561 nm Red: Ex. 580-598 nm/Em. 612-680 nm
Fluorescence Light Source	High power LEDs, auto-LED intensity
Objectives	10X, 20X
Image Resolution	10X: 0.86 $\mu\text{m}/\text{pixel}$
	20X: 0.43 $\mu\text{m}/\text{pixel}$
Field of View	10X: 0.85 mm X 0.88 mm for E-Plate VIEW; 1.68 mm X 1.40 mm for SBS standard plate
	20X: 0.85 mm X 0.88 mm for E-Plate VIEW; 0.84 mm X 0.70 mm for SBS standard plate
Camera	CMOS Sensor, 5.0M pixels, up to 35fps, 3.45 $\mu\text{m}/\text{pixel}$, Monochromatic
Autofocus methods	Image-based autofocus
Exported Image Format	JPEG, PNG, TIFF, BMP
Exported Movie Format	WMV, AVI, MPEG-4
Compatible Labware	E-Plate VIEW 96
	SBS Standard 96- and 6 well plate
	35mm, 60mm cell culture dish with compatible adapter
	Corning T25 cell culture flask (Product #430639) with compatible adapter
Biosensor Specifications	
Impedance Measurement Accuracy	$\pm (1.5\% + 1 \Omega)$
Impedance Measurement Repeatability (Max-Min)/Avg	0.8%
Impedance Dynamic Range	10 Ω to 5 k Ω
Electronic Switch Resistance	2 to 5 Ω
Impedance Data Collection Rate	Minimum time interval between successive impedance data acquisition is 15 sec for a plate

Consumable Specifications (E-Plate VIEW 96 or E-Plate 96)	
Footprint	Complying with ANSI/SBS 1-2004 require
Dimension (W × D × H)	12.77 × 8.55 × 1.75 cm (with plate cover)
Well Spacing	9 mm center-to-center as per the ANSI/SBS 4-2004 standard for 96-well titer plates
Well Volume	264 µl ± 10 µl
Well Bottom Diameter	5.0 mm ± 0.05 mm
Viewing Window (for E-Plate View 96 only)	Center biosensors removed to aid in live cell imaging (~900 µm opening window in width at the center)
Electrical Interface	Interface with RTCA eSight Instrument
Sensor Impedance	E-Plate VIEW 96: 21Ω ± 6Ω at 10 kHz, when measured with a 1X PBS Solution
Material	Glass sensor substrate, biocompatible surfaces, UV irradiated

General Specifications	
Workstation	Operating System: 64-bit Windows 10
	Hard Drive Capacity: 24 TB Hard Drive
	Minimal Configuration: 16 GB RAM; 3.2 GHz 6 Core CPU
	Monitor: 27", 2560 × 1440 resolution
Configuration	3 cradles for E-Plate View 96
	2 cradles for other vessels
Power	100-240 VAC 50/60Hz
	Max: 1.25 A @ 100 VAC; 0.5 A @ 240 VAC
Dimensions (H × W × D)	16.2" × 16.9" × 17.5" (H × W × D)
	41.4 cm × 43.1 cm × 44.5 cm
Weight	60 lbs; 27.2 Kg
Operating Environment	15°C to 40°C, relative humidity: 98% maximum, non-condensing
Status Indicators	Power and device status

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