EA-300

Laser-based Elemental Analyzer

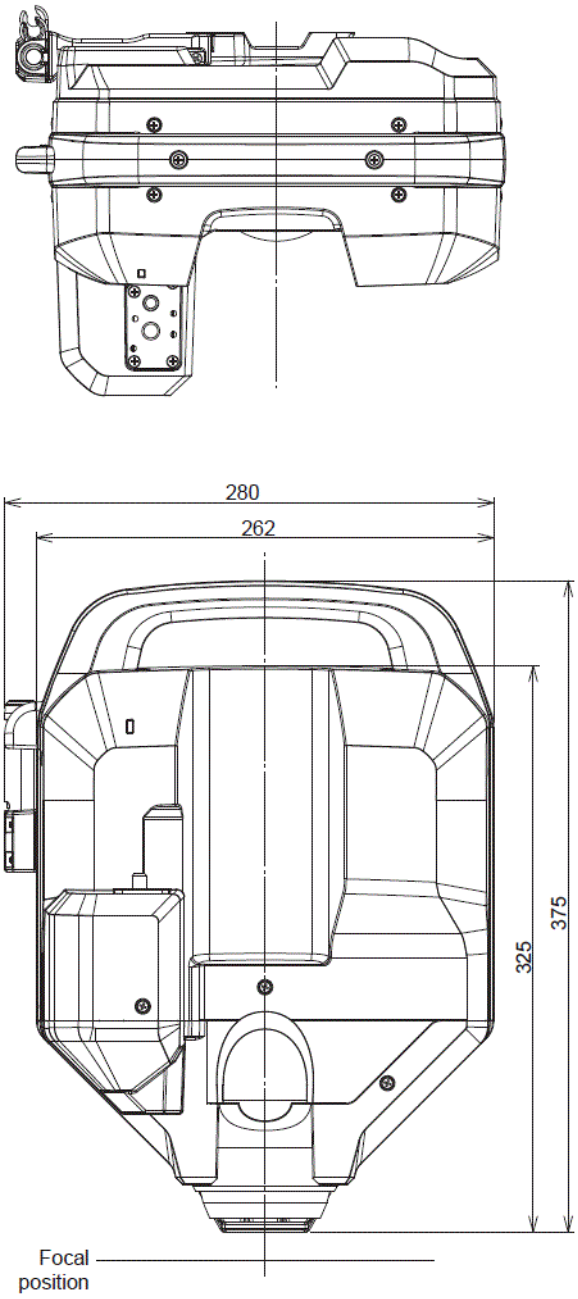
*Please note that accessories depicted in the image are for illustrative purposes only and may not be included with the product.

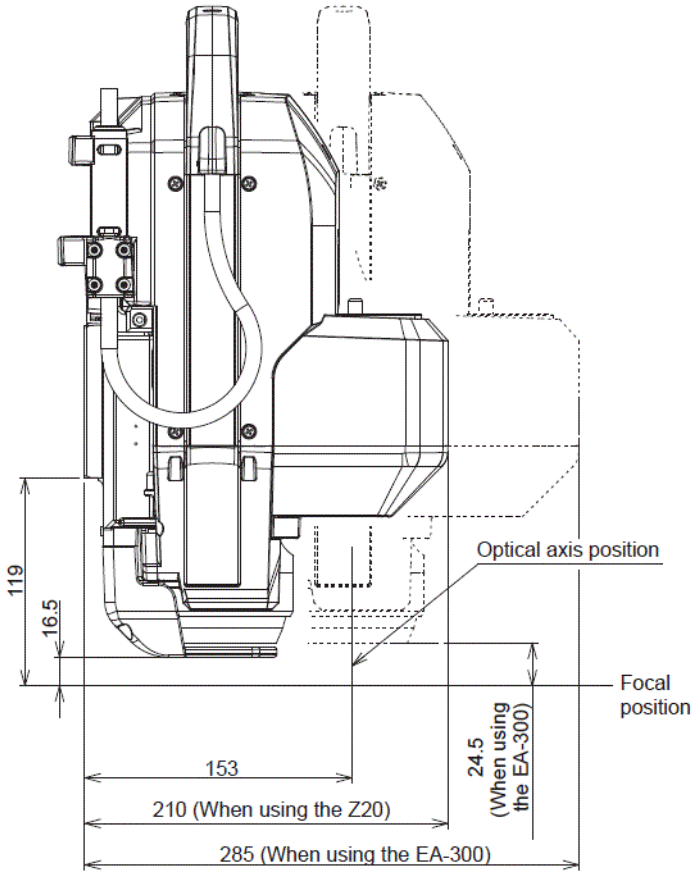
Specifications

Model			EA-300
Analysis optical system	Detection principle		Laser-induced breakdown spectroscopy
	Supported elements		H1 to U92
	Laser	Laser type	Nd: YAG laser
		Laser class	Class 1 laser product (IEC/EN 60825-1, JIS C 6802, FDA (CDRH) Part 1040.10)
		Laser wavelength	355 nm
		Spot size	10 µm (typ.)
Observation optical system	Image sensor		1/1.8-inch, 3.19-megapixel CMOS image sensor
	Observation magnification		300× to 1000×
	Scanning system		Progressive
	Frame rate		50 fps (max.)
	Optical system	Lens type	Specially designed reflective objective lens
		Objective lens working distance	25 mm 0.98"
	High dynamic range		16-bit intensity range through RGB data from each pixel
	Gain		Manual, Preset
	Electronic shutter		Auto, Manual, 1/60, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/5000, 1/9000, 1/19000
	Supercharge shutter		Can be set in 0.01 s increments from 0.02 to 16 s
	White balance		Push-set, Manual, Preset (2700K, 3200K, 5600K, 9000K)
	Built-in coaxial illumination light source	Type	High-brightness LED
		Service life	100000 hours (reference value)
		Color temperature	5810K (typ.)
	Built-in ring illumination light source	Type	High-brightness LED
		Service life	100000 hours (reference value)
		Color temperature	5810K (typ.)
Power supply	Power supply method		Power supplied via dedicated cable from VHX Series controller camera port
Environmental resistance	Ambient temperature		10 to 33°C 50.0°F to 91.4°F
	Relative humidity		35 to 80% RH (No condensation)
Dimensions			280 (W) × 375 (H) × 210 (D) mm 11.02"(W) × 14.76" (H) × 8.27" (D) (with lens stored) (excluding protrusions)
Weight			Approx. 7.2 kg 15.87 lb (Analysis system main unit)

Dimensions

* Download CAD file or product manual for larger image/text and more detail.




119
16.5
Optical axis position
Focal position
153
210 (When using the Z20)
285 (When using the EA-300)
24.5 (When using the EA-300)

Unit: mm