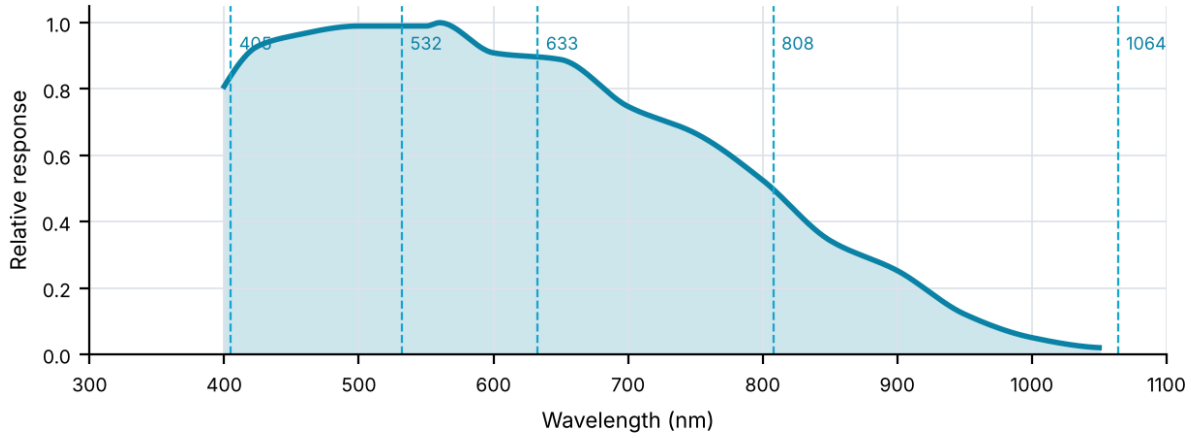
UV-VIS-NIR Laser Beam Profiler – Compact High Resolution, 2.0 MP

Complete beam profiling system for CW and pulsed lasers, 400 – 1050 nm: camera head, software, calibration and acceptance test

Spectral range	400 – 1050 nm (silicon CMOS, peak QE ≈ 49 % at 500 – 560 nm)
Resolution	1602 × 1202 px (2.0 MP)
Pixel size	4.5 µm
Active area	7.21 × 5.41 mm (1/1.8")
Frame rate	60 fps (full frame)
ADC / pixel format	8 / 12 bit, Mono8 – Mono12
Shutter	Global shutter (rolling shutter selectable)
Interface	GigE Vision (1 Gbit/s), RJ45 with screw locks, GenICam
Trigger / I/O	Hirose 6-pin: 1 opto-isolated input, 1 opto-isolated output; hardware/software trigger
Lens mount	C-mount (used without lens for direct beam profiling; ND/attenuation per application)
Sensor plane	17.53 mm behind the C-mount reference face
Power	PoE (IEEE 802.3af) or 12 – 24 VDC via 6-pin I/O connector, ≈ 3 – 4 W
Dimensions	29 × 29 × 42 mm housing; 60.3 mm overall incl. C-mount and connectors
Mounting	M3 and M2 threaded holes on the bottom face; tripod adapter plate included
Mass	< 90 g (camera head)
Environment	Housing 0 – 50 °C, 20 – 80 % RH non-condensing
Cooling	None (passive)
Software	IZAK LBP APP: beam width/diameter, centroid, ellipticity and azimuth; peak position/value with saturation indication; fixed ROI or Auto-ROI; automated Pass/Fail test mode with exportable results; image save and measurement export. Optional API/DLL integration and AI Insights & Reporting add-on
Included	Camera head, GigE Ethernet cable (3 m), PoE injector or power supply, tripod adapter plate, IZAK LBP APP license (USB key), calibration and acceptance test report

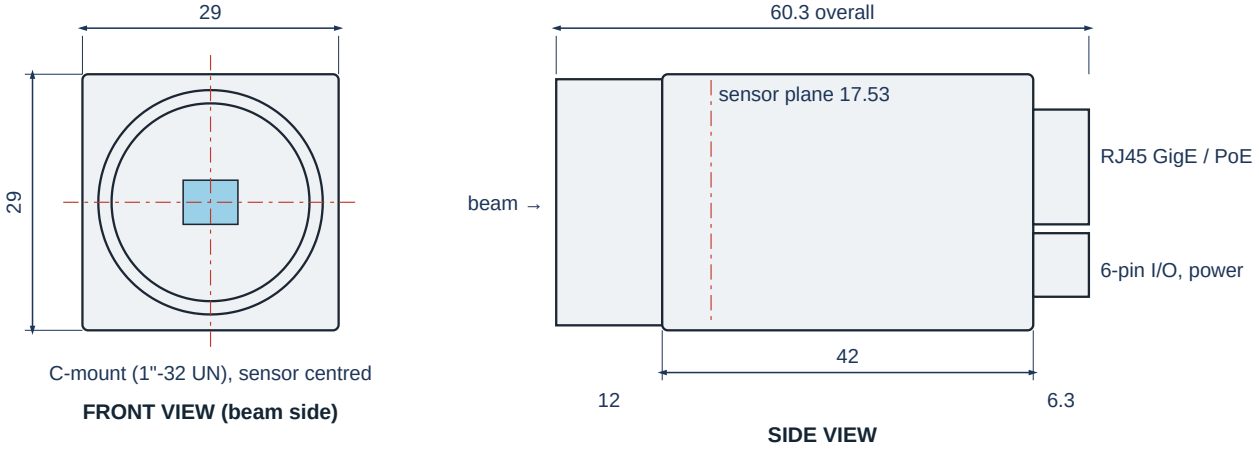
Typical values; specifications may change without notice. The quotation states the binding configuration.

Typical relative spectral response

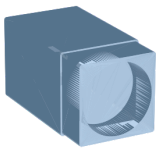


Typical sensor response (normalised, camera without lens or filter); dashed lines mark common laser wavelengths. Absolute calibration of power/energy is not part of the beam-profile measurement.

Outline drawing – dimensions in mm

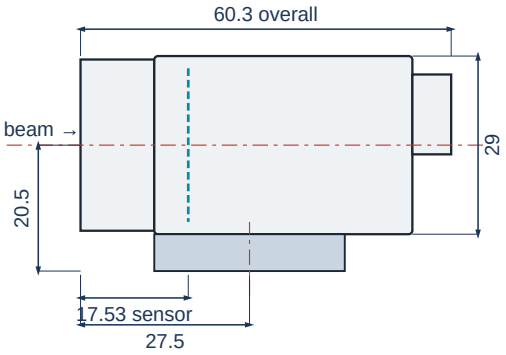


Title UV-VIS-NIR Laser Beam Profiler – Compact High Resolution, 2.0 MP – camera head outline	**SKU** 31003	**Drawing** IZAK-DWG-31003-01	**Rev** 1.0
Drawn IZAK Scientific, 2026-11-10	**Scale** not to scale	**Mount** C-mount; M3/M2 threads on bottom face, tripod adapter plate included	**3D** 31003_3D.step

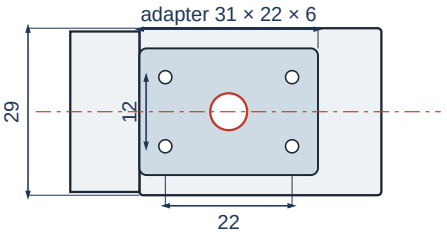


3D envelope model (STEP AP214): 31003_3D.step – housing, C-mount section, connector envelope and tripod adapter plate for mechanical integration. Internal components are not modelled; mounting dimensions are given on page 3. Keep ≥ 40 mm free behind the connectors for cable bend radius.

Mounting drawing – tripod adapter plate (dimensions in mm)



SIDE VIEW – mounted on tripod adapter

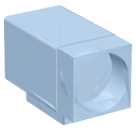


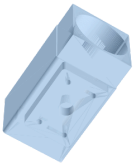
BOTTOM VIEW – adapter footprint

- Tripod adapter plate (included)
- 1/4"-20 UNC (DIN 4503) tripod thread
- Adapter-to-camera screw holes Ø2.3 (4 × M2 (included))
- Sensor plane (17.53 mm behind the C-mount reference face)

Optical axis 20.5 mm above the adapter base. Tripod thread (1/4"-20 UNC (DIN 4503)) 27.5 mm behind the C-mount reference face (sensor plane 17.53 mm behind this face). Adapter 31 × 22 × 6 mm, aluminium, fixed with 4 × M2 (included). Dimensions after the camera manufacturer's drawings; verify against the STEP model before machining fixtures.

Title UV-VIS-NIR Laser Beam Profiler – Compact High Resolution, 2.0 MP – mounting with tripod adapter	**SKU** 31003	**Drawing** IZAK-DWG-31003-02	**Rev** 1.1
Drawn IZAK Scientific, 2026-11-10	**Scale** not to scale	**Interface** 1/4"-20 UNC tripod / post thread	**3D** 31003_3D.step (incl. adapter)





Typical set-ups: 1/2" optical post with 1/4"-20 stud, or 1/4"-20 tripod. For fixtures, use the adapter hole pattern or the camera's own mounting threads (see the STEP model).