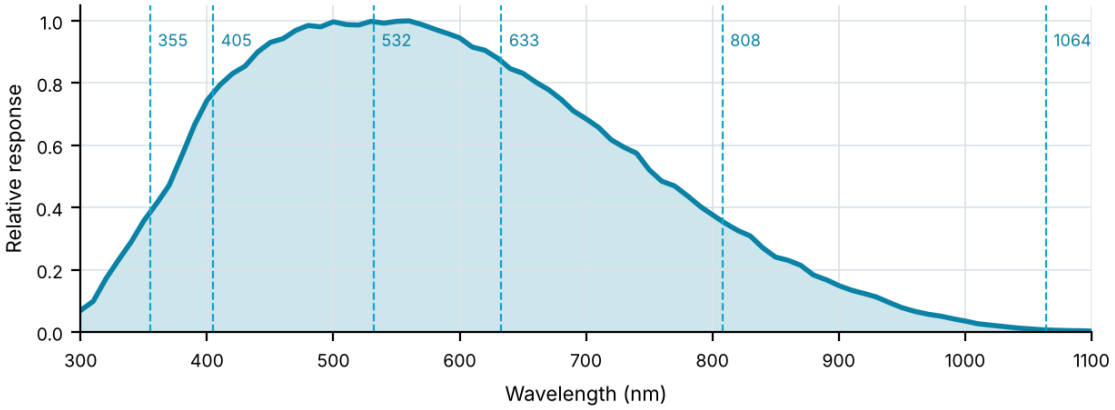
UV-VIS-NIR Laser Beam Profiler – Large-Area, 31.4 MP

Complete beam profiling system for large CW and pulsed beams, 300 – 1100 nm: camera head, software, calibration and acceptance test

Spectral range	300 – 1100 nm (silicon CMOS, peak QE ≈ 68 % at 560 nm)
Resolution	6464 × 4852 px (31.4 MP)
Pixel size	3.45 µm
Active area	22.3 × 16.7 mm (APS-C, 27.9 mm diagonal)
Frame rate	17.9 fps (8 bit) · 14.4 fps (10 bit) · 12.1 fps (12 bit), full frame
ADC / pixel format	8 / 10 / 12 bit, Mono8 – Mono16
Shutter	Global shutter
Interface	5GBASE-T GigE Vision (also 2.5G / 1G), M12 connector, PoE
Trigger / I/O	8-pin M8 GPIO: opto-isolated input and output plus non-isolated bi-directional lines; hardware/software trigger
Lens mount	TFL-mount (M35 × 0.75); used without lens for direct beam profiling, attenuation per application
Sensor plane	17.53 mm behind the TFL-mount reference face
Power	PoE (IEEE 802.3af) or 12 – 24 VDC, ≈ 8.5 W
Dimensions	55 × 55 × 70 mm housing; 74 mm overall incl. mount ring and connectors
Mass	≈ 240 g (camera head)
Environment	Operating −20 to 55 °C ambient, 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, Ethernet cable, PoE injector or power supply, tripod adapter plate, IZAK LBP APP license (USB key), calibration and acceptance test report

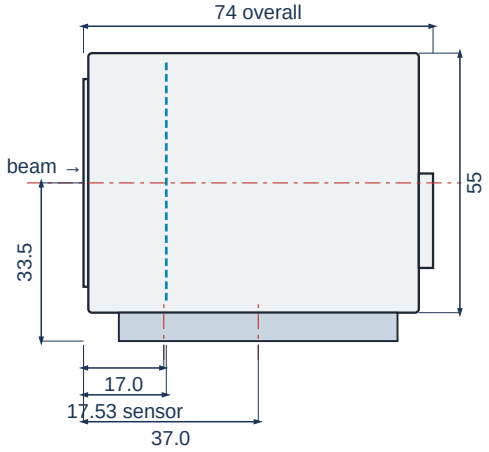
Typical values; specifications may change without notice. The quotation states the binding configuration.

Typical relative spectral response

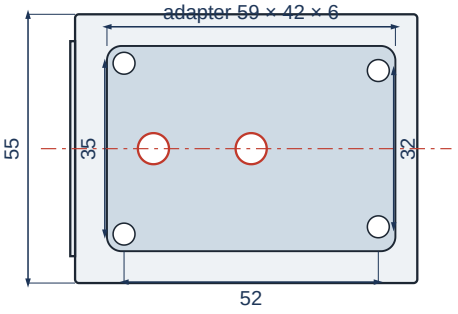


Typical sensor response (normalised, camera without lens or filter); dashed lines mark common laser wavelengths.

Outline and mounting drawing – dimensions in mm



SIDE VIEW – mounted on tripod adapter

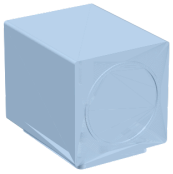


BOTTOM VIEW – adapter footprint

Tripod adapter plate (included)
1/4"-20 UNC tripod thread
Adapter-to-camera screw holes Ø4.5 (4 × M4 (included))
Sensor plane (17.53 mm behind the TFL-mount (M35 × 0.75) reference face)

Optical axis 33.5 mm above the adapter base. Tripod threads (1/4"-20 UNC) 17.0 mm, 37.0 mm behind the TFL-mount (M35 × 0.75) reference face (sensor plane 17.53 mm behind this face). Adapter 59 × 42 × 6 mm, aluminium, fixed with 4 × M4 (included). Dimensions after the camera manufacturer's drawings; verify against the STEP model before machining fixtures.

Title UV-VIS-NIR Laser Beam Profiler – Large-Area, 31.4 MP – outline with tripod adapter	**SKU** 31005	**Drawing** IZAK-DWG-31005-01	**Rev** 1.0
Drawn IZAK Scientific, 2026-11-10	**Scale** not to scale	**Mount** 1/4"-20 UNC via tripod adapter plate (included)	**3D** 31005_3D.step



3D envelope model (STEP AP214): 31005_3D.step – housing, mount ring, connector envelope and tripod adapter plate with hole pattern, for mechanical integration. Internal components are not modelled. Keep ≥ 50 mm free behind the connectors for cable bend radius.