

Specification

Product Model	Seestar S50 Pro
Sensor Size	Telephoto: 1/1.2 in 2.9 μm (8.3 MP) Wide-Angle: 1/2 in 1.6 μm (8.3 MP)
Resolution	Telephoto: 2160 × 3840 (8.3 MP) Wide-Angle: 2160 × 3840 (8.3 MP)

Field of View	Telephoto: 2.8° (Portrait) Wide-Angle: 63° (Portrait)
Aperture	Telephoto: 50 mm Wide-Angle: 3.4 mm
Focal Ratio	Telephoto: f/5.2 Wide-Angle: f/1.75
Focal Length	Telephoto: 260 mm Wide-Angle: 6 mm
Equivalent Focal Length	Telephoto: 880 mm Wide-Angle: 35 mm
Working Distance	Telephoto: 15 m–∞; Wide-Angle: 0.1 m–∞
Optical Design	4-Element Apochromatic Lens (APO), Including ED Glass

Built-in Filters	UV/IR-Cut Filter (Telephoto + Wide-Angle) Dual-Band Light Pollution Filter: OIII 30 nm / Hα 20 nm (Telephoto Only) Dark Frame Filter (Telephoto Only)
External Filter	Magnetic Solar Filter

Storage Capacity	128 GB eMMC *Due to the storage chip and system usage, approximately 100 GB of storage is actually available.
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Battery Capacity	10,000 mAh; up to 9 h of runtime (ZWO laboratory test data)
Power Input	Type-C, Supports DC 5V~3A; 12V~3A

Connections	Wi-Fi, USB Type-C, Bluetooth
Wi-Fi Reset	Supported
Image Format	JPEG / FITS
Video Format	MP4 / AVI

Wireless Wi-Fi	5 GHz / 2.4 GHz
Wi-Fi Range*	Up to 10 m
Bluetooth Range*	Up to 5 m

Mount Type	Alt-Azimuth; Equatorial Mode Supported
Slew Rate	1×–1440×
Home Position	Mechanical Home Position
Base Port	3/8-16

Operating Temperature	-10°C~40°C
Charging Temperature	0°C~40°C
Storage Temperature	-10°C~60°C
Operating Humidity	20%~80%
Storage Humidity	20%~50%

Weight	2.8 kg (Main Unit)
Dimensions	140 × 149 × 268 mm (Folded)