Alpha Surveying

Alpha 4 AR

AR Visual RTK

AR visual stakeout | Free IMU | Drone base station | 98×53mm | 400g



Alpha 4AR

The evolution of surveying geek spirit. With dual-mode radio, dual PPP, 12-hour battery life, UAV base station, this is a visual RTK as light as 400g for ultimate portability. Immersive AR stakeout achieves one-step precision.

Technical Specification

GNSS	Channels	1408
	Signal Tracking	GPS: L1C/A, L1C, L2C, L2P, L5
		BDS: B1I, B2I, B3I, B1C, B2a, B2b
		GLONASS: G1, G2, G3
		Galileo: E1, E5a, E5b, E6
		QZSS: L1C/A, L1C, L2C, L5
		SBAS: L1
		NAVIC: L5
	High Precision Static	H: ±(2.5+0.5×10^{-6}D)mm
		V: ±(5+0.5×10^{-6}D)mm
	RTK	H: ±(8+1×10^{-6}D)mm
		V: ±(15+1×10^{-6}D)mm
Tilt Compensation	Accuracy	±(8+0.3TILT)mm
	*Angle	0~90°
	Update Rate	100Hz
System Parameters	Operating System	Linux
	Built-in Storage	32G
	Data Record	Dat Rinex
	Cellular Network	4G All Netcom
	WiFi	802.11a/b/g/n/ac
	Bluetooth	BT 5.0
Radio	Power	1.5W
	Frequency	410-470MHz
	Operation Mode	Transceiver
Power	Power	5-12V,PD
	Working Time	25.9Wh, 12h (controller Ntrip)
Far-end Guidance	Pixel	200m pixel
	Field of View	68°
	Accuracy	1cm
Near-end Stakeout	Pixel	200m pixel
	Field of View	68°
	Accuracy	1cm
Port / Indicator	SMA	Connecting the radio antenna
	Type-C	For charging & transmission, external port output
	Indicator Lights	Satellite, Datalink, Bluetooth, Battery
	Loudspeaker	Voice supported
Physical	Dimension	98mm*53mm(Excluding 5/8 pin interface)
	Weight	400g
Environmental	Operating Temperature	-30°C ～ +70°C
	Storage Temperature	-40°C ～ +80°C
	Water/Dust Proof	IP67
	Shock	Normal temperature resistance of 1.6m drop (hard ground), 1.2m free fall
	Humidity	Up to 100%

*The above technical parameters are for your reference.The company reserves the right to change the design and planning of the product based on the actual product.

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