VIAVI Solutions

3Z a VIAVI company

Data Sheet

VIAVI

3Z RF Vision

Antenna Alignment Tool

General Specifications

Dimensions	
Length	13.3" (338 mm)
Width	5.6" (142 mm)
Height	4.6" (116 mm)
Weight	4.2 lbs (1.90 kg)
Accuracy	
Azimuth/Heading[1]	0.5° RMS
Tilt	± 0.1° (Typical)
Roll	± 0.1° (Typical)
Horizontal Position[1] SBAS (WAAS)	0.82 ft. (0.25 m) RMS
Height	0.04" (1 mm) Typical with 3ZRFA-LRF Laser Rangefinder
LCD Display	
Size	5" diagonal
Resolution	800 x 480 pixels
Type	TFT-WVGA
Visibility	± 85° Horizontal ± 85° Vertical
Luminance	800 cd/m² (800 nits)
Glass	0.07" (1.8 mm) thick, chemically strengthened
Interface	Projected capacitive touch



Benefits

- Accurately align directional antennas (panel, microwave, and cylindrical/stealth antennas)
- Generate reliable and automated line-of-sight surveys
- Match antenna alignment with RF design
- Maximize voice quality and data traffic
- Improve data user throughput and KPIs
- Reduce churn
- Reduce OPEX

Key Features

- Mechanically aligned camera
- Bullseye target alignment with augmented reality
- Dual-frequency technology
- Impact-resistant 5" touch screen display
- Mobile application to share line-of-sight surveys
- Weather-resistant, rugged design

PRIMUS
(800) 435-1636

Camera Specifications (License Required)	
Resolution	690 x 435 pixels
Lens Size	7/16" (11 mm)
S/N Ratio	39 dB Wide Dynamic Range (up to 100dB)
Field of View	~50° (H), ~30° (V)
GNSS	
Receiver Type	Dual-Frequency, Multi-GNSS
Differential Corrections	SBAS
Channels	744
Receiver Sensitivity	-142 dBm Strong Multipath Mitigation and Interference Rejection
SBAS Tracking	3-Channel, Parallel Tracking
Constellations	GPS, GLONASS
Environmental	
Operating Temperature	-20 to +60° C (-4 to +140° F)
Storage Temperature	-20 to +50° C (-4 to +122° F)
EMC	FCC Part 15 Subpart B, CE, IC
IP Rating	IP65 rated for protection against infiltration of dust and water from all directions
Battery	
Chemistry	Li-Ion
Operational Time	6-8 hours
Battery Charger	
Voltage Input	100/240 VAC , 50/60 Hz
Current Input	0.35 A (max)
Voltage Output	5 VDC
Current Output	2 ADC

Storage Capacity[2]
300+ Sites
Connectivity
Micro USB 2.0, Bluetooth 4.0/BLE
WiFi Dual Band 2.4/5GHz 802.11 a/b/g/n

1. Depends on multipath environment, number of satellites in view, satellite geometry and ionospheric activity.
2. Assumes 6 antennas per site.

VIAVI Solutions

PRIMUS
(800) 435-1636