

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 <sup>1</sup>	0.5° RMS
Tilt	± 0.1° (Typical)
Roll	± 0.1° (Typical)
Horizontal Position <sup>1</sup> 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/m <sup>2</sup> (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

**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<sup>2</sup>**

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.



Contact Us **+1 844 GO VIAVI**  
(+1 844 468 4284)

To reach the VIAVI office nearest you,  
visit [viavisolutions.com/contact](http://viavisolutions.com/contact)

© 2019 VIAVI Solutions Inc.  
Product specifications and descriptions in this document are subject to change without notice.  
rfvision-ds-nsd-nse-ae  
30190912 900 1019