Skadi Smart Handle™

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Skadi Smart Handle™: Add LiDAR and MEMS to Your RTK-Enabled Skadi Series™ GNSS Receiver

Are you ready to equip your field crews with the ultimate GNSS accessory? If you purchased a Skadi Gold™, Skadi 300™, or Skadi 200™ RTK GNSS receiver from Eos Positioning Systems®, you can add the Skadi Smart Handle™ and take advantage of very accurate LiDAR and MEMS sensor measurements.

The Skadi Smart Handle enables two core features: an Invisible Range Pole™ and Extensible Virtual Range Pole™. The Invisible Range Pole is designed to continuously provide you with elevations to the ground while holding your Skadi Series™ receiver in your hand. It does this with a gimbal-like technology that acts like a plumb, so that your receiver always computes its elevation to the ground, regardless of its attitude (angle toward the ground). Next, the innovative Extensible Virtual Range Pole™ extends the reach of your invisible range pole beyond the position you physically occupy.

Take advantage of this LiDAR-based, distance-measurement sensor that lets you capture nearby assets on the ground and in trenches without having to climb down into them.

Put the Power of RTK In Your Hand™

The Skadi Smart Handle™ is an upgrade to your included Skadi Standard Handle™. The smart handle features two exciting and powerful features that put the power of RTK In Your Hand™: the Invisible Range Pole™ and Extensible Virtual Range Pole™.

Invisible Range Pole™

With the **Invisible Range Pole™**, you carry a virtual gimbal that keeps you plumb to the ground. Raise, lower, or tilt the receiver, your elevation to the ground is continuously computed below the Skadi Gold in your hand, thanks to the exciting combination of LiDAR and MEMS technologies.

Extensible Virtual Range Pole™

The **Extensible Virtual Range Pole™** allows you to extend the reach of your data collection beyond the position you physically occupy. Using a built-in laser pointer, now you can “shoot” short-distance assets on the ground while retaining high accuracy. This is particularly useful for assets in trenches and similar environments. The Extensible Virtual Range Pole has an approximate range of about seven meters (23 feet) in bright sunlight conditions (performance may vary based on target reflectivity).

Eos Receivers Eligible for the Skadi Smart Handle™ Upgrade:

Skadi 200™ Skadi 300™ Skadi Gold™

Specifications

Distance Measurement Sensor

Type:	Single-point LiDAR
Ranging Distance:	7 m (23 ft)[1]
Relative Error (Typical):	3%
Laser Wavelength (Typical):	905 nm (Infrared band)
Laser Power:	25 mW
Laser Safety:	Eye-safe — FDA Class I IEC60825-1[2]

Visible Laser Pointer

Type:	Visible green laser dot beam
Laser Wavelength (Typical):	520 nm
Laser Power (Max):	10 mW
Laser Safety:	905 nm (Infrared band)
Laser Power:	Class 3B[3]

Power Consumption

Battery Autonomy with Skadi Gold™ and Skadi 300™:
6+ hours minimum (continuous use)[4, 5]

Battery Autonomy with Skadi 200™: 6.5+ hours minimum (continuous use)[4, 5]

Environmental Details

Operating Temperature:	-15° C to +50° C (5° F to +122° F)
Storage Temperature:	-20° C to +70° C (-4° F to +158° F)
Humidity:	95% non-condensing
Compliance:	FCC, CE, RoHS and lead-free

Mechanical Details

Enclosure Rating:	Waterproof, IP-67
Immersion:	30 cm, 30 minutes
Dimensions:	26.6 cm x 7.6 cm x 16.2 cm (10.5” x 3.0” x 6.4”)
Weight:	405 g (0.890 lb)

NOTES :
[1]Depends on target reflectivity
[2]Eye-safe under all conditions of normal use. The LiDAR has passed testing and conforms to Class I, 21 CFR parts 1040.10 and 1040.11 safety levels, except for IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019.
[3]Direct contact with the eye for over two minutes may cause serious damage to the retina.
[4]Worst-case scenario with LiDAR, laser pointer, and vibration motor continuously operating. Autonomy is greatly increased with typical usage (on-demand).
[5]Battery is rechargeable in the handle while inserted in the Skadi receiver (via receiver and supplied USB-C 20W power adapter).

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