



GonioLight

Digital Observation Station



vectronix 

The lightweight, modular system for dismounted forward observers and forward air controllers



The latest Digital Observation Station from Vectronix AG utilizes state-of-the-art technology to offer the best performance to weight ratio for your "eyes on the ground".

There are 4 standard versions available:

- GonioLight with VECTOR
 - GonioLight with VECTOR and Gyroscope
 - GonioLight with VECTOR and JIM LR Multifunction Infrared
 - GonioLight with VECTOR, JIM LR and Gyroscope
- Customized solutions adapting other Rangefinders, Thermal Imagers or multifunctional devices are possible.



Autonomous orientation: 5 mils or 1 mil (1 sigma)

Regardless of weather and visibility conditions autonomous orientation can be achieved by using the built-in Digital Magnetic Compass (5 mils) or the Northfinding Gyroscope (1 mil). Accuracies of 1 mil (1 sigma) can be achieved with alternative methods using the embedded survey routines on known landmarks (back polar plot, resections, intersections).

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This compact angulation head has optical encoders for horizontal and vertical angle measurement. It assists the operator with menu prompts and is able to assume the functions of a data terminal. The measured distance (by VECTOR or other LRF), azimuth and elevation are displayed on the graphical LCD, converted into target grid coordinates, stored and forwarded efficiently. Up to four connectors are available for bidirectional communication with radio, command and control system, GPS receiver, gyroscope and external power supply. The GonioLight comprises a DMC, C/A code GPS, horizontal fine drive, MAGVAR World Magnetic Model and UTM grid system.

Technical Data

Setting up

Fine levelling	not required
Rough levelling	within $\pm 5^\circ$

Angle measurement

Sensor range, horizontal	6400 mil
Sensor range, vertical	+700 mils to -450 mils
Accuracy, horizontal angle (1σ)	1 mil
Accuracy, vertical angle (1σ)	1 mil

Orientation accuracy (1σ)

By Digital Magnetic Compass	5 mils
By resection reference bearing	1 mil
By MK11-7 Gyro (optional)	1 mil

Operator controls

Horizontal motion (pan)	friction clutch, endless fine-drive
Vertical motion (tilt)	brake
Software	menu-guided
Controlling	4 direction keys; enter, escape and menu keys
Measurement	1 trigger button

Serial interfaces

RS232 (standard)

Power supply

on-board battery cartridge for commercial AA cells

Environmental specifications according to MIL-STD-810F

Operating temperature	-30° C to +55° C
Storage temperature	-55° C to +70° C

Physical data

Dimensions (L x B x H)	192 x 184 x 135 mm
Weight	3.4 kg (with batteries)

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