

MOSKITO

Features	Benefits
Purpose-built, fully integrated	Smaller size and lighter weight for
threat location unit	maximum agility
All-in-one instrument for	Fewer mission essential pieces of
observing and measuring	kit to carry
Same user interface in day and	Higher user confidence and
night operations	reduced training effort
Runs 24 hrs on two commercial	Improved sustainability and
CR123A batteries	reduced logistic burden
Proven technology and Swiss	Low risk investment and high
quality	reliability

Compact Day & Night Observation & Location Unit





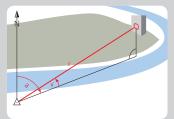


Around the clock security

A radically new design from Vectronix offers security forces a universal optronic device to support them through the full spectrum of a 24/7 deployment.

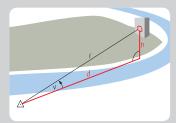
MOSKITO includes all the essential day/night viewing, measuring and geo-location functions in a most compact and user-friendly package. Like the highly successful VECTOR Rangefinder Binoculars, MOSKITO measures range, azimuth and vertical angle. In addition, it incorporates the latest image intensifier technology for night time viewing.





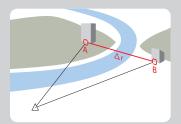
MOSKITO measures the polar vector from the observer's position to the target object:

- r range (slope/slant distance)
- a azimuth (bearing, angle between north and object)
- v vertical angle (inclination, elevation)

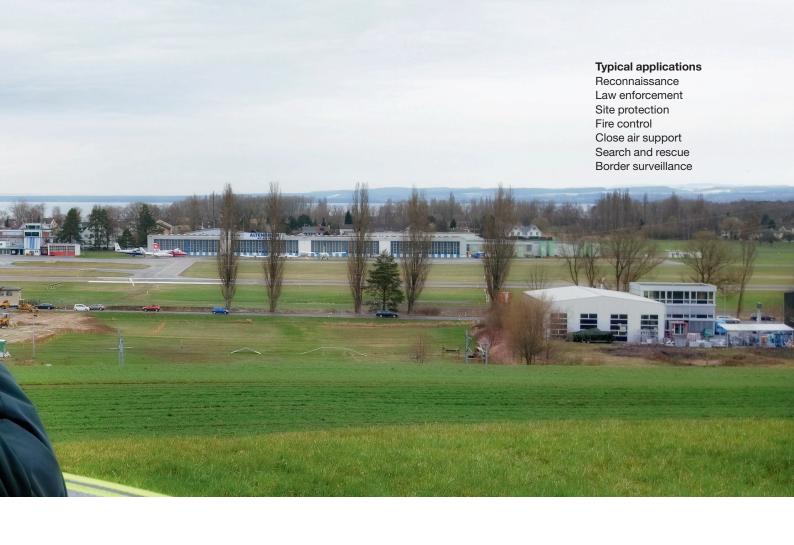


MOSKITO also displays: d horizontal distance

h height difference



MOSKITO also computes and displays relative values between two remote objects such as: Δr slope distance from A to B



Detect, recognize, identify and locate

Rapidly varying light conditions, especially in the urban environment, demand an optical day viewing channel plus a quickly activated night channel. MOSKITO's night channel uses an autogated image intensifier tube which dynamically adjusts itself to different levels of brightness.

Detection Recognition Identification 0 1 2 3 km

Day: NATO Target (2.3 x 2.3 m, reflectivity 10 %), observer visibility 10 km Night: 10 mlux, quarter moon



Observation by day High resolution glass optics with 5x magnification for clear recognition and identification of threats.



Observation at night
The night operation mode is immediately activated whenever required.
Measurements can be taken just like by day.



MOSKITO: the fastest all-in-one for observation and targeting



Two options exist for precise geo-location of threats:

first a built-in C/A code GPS receiver, second a connection to an external device such as the Rockwell Collins PLGR, DAGR, or several models from Garmin

Error-free data transmission to command post, PDA and other peripheral devices is established via cable or wireless technology.



A swivel lever allows the operator to easily switch between day, night and setting mode (patent pending).



In setting mode the graphic matrix display presents the user with parameter options.



A pair of commercial 3 V lithium batteries is sufficient for more than 2000 measurements plus 24 hours of observation in night vision mode.



Technical Data		
Day viewing		
Magnification	5x	
Field of view	6° / 108 mil	
Glass reticle	with mil graduation	
Night viewing		
Image intensifier tube	Photonis XR-5	
Magnification	3x	
Field of view	10.5° / 186 mil	
Rangefinding		
Laser diode	1550 nm	
Eye safety	class 1 per IEC 60825-1	
Range capability	5 m to 10 km	
Specified performance	4 km to standard NATO target	
Accuracy, 1σ	± 5 m	
Angle measurement		
Orientation accuracy, 1σ	± 10 mil	
Accuracy of vertical angles, 1σ	± 3 mil	
Power supply	2 lithium batteries 3 V, type CR123A	
Autonomy	24 hours night vision operation and >2000 measurements	
Physical		
Dimensions (I x w x h)	185 x 130 x 80 mm	
Weight	< 1.2 kg	



MOSKITO is subject to international export regulations and requires an export permit granted by the Swiss Secretariat for Economic Affairs (SECO).



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