



DMC-SX Series

Digital Magnetic Compass
and Vertical Angle Sensor

Features

DMC-SX family offers choice of three accuracy classes

Light weight, small size, low power consumption

Standard electronic interface

High-precision mechanical interface

Individually calibrated and stress-screened during production

Benefits to system integrators

Price/performance ratio tailored to your needs

DMC-SX complements system agility and sustainability

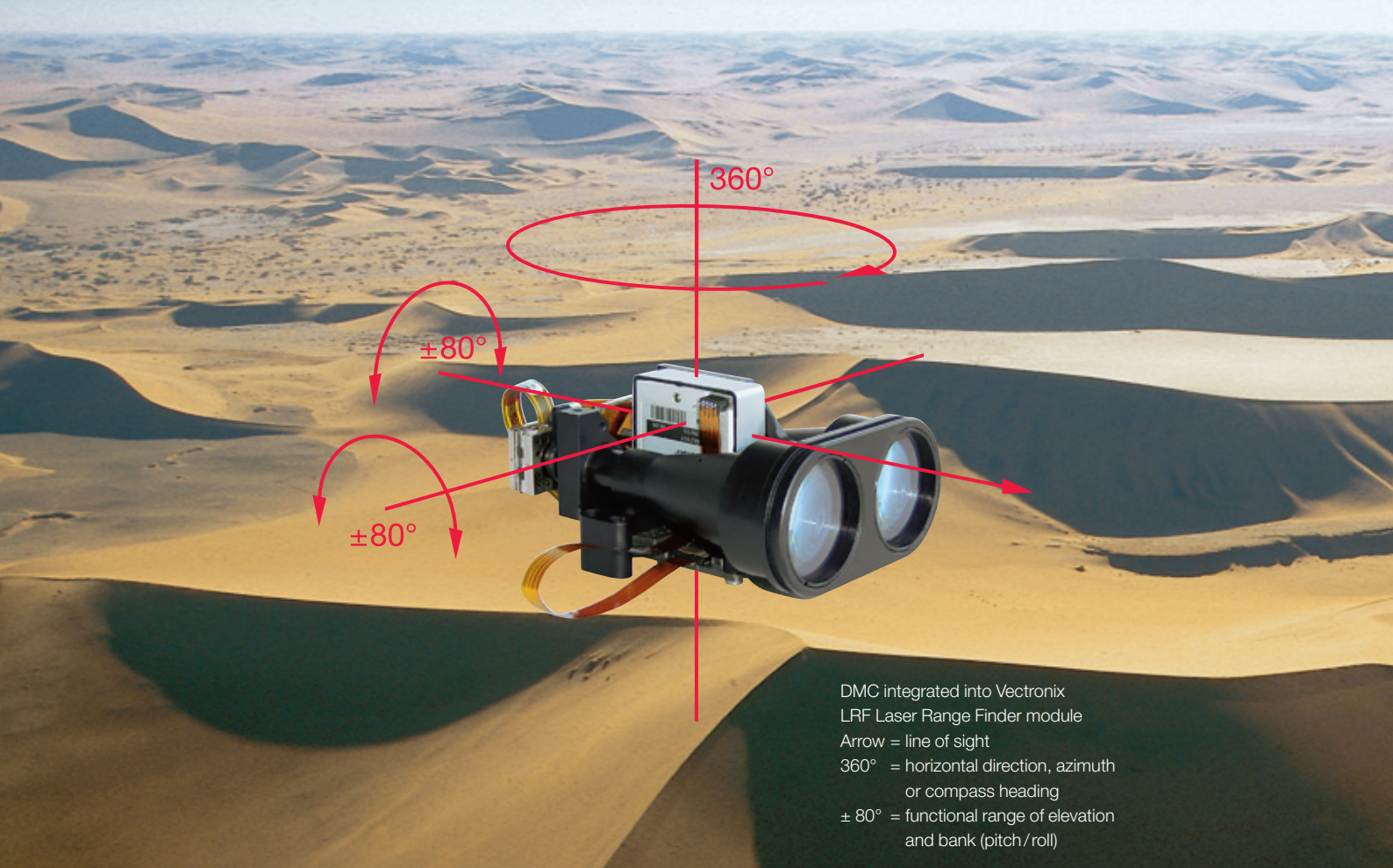
Straightforward integration minimizes development risks and costs

Interchangeability simplifies assembly and maintenance

Accurate and reliable performance under endusers' harsh environmental conditions



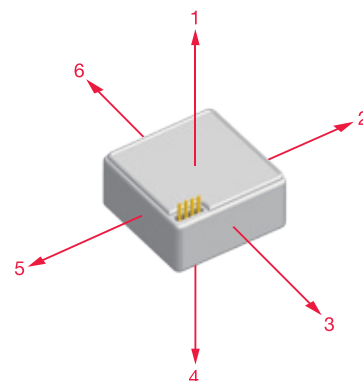
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DMC integrated into Vectronix LRF Laser Range Finder module
 Arrow = line of sight
 360° = horizontal direction, azimuth or compass heading
 ± 80° = functional range of elevation and bank (pitch/roll)

Orientation by Vectronix DMC-SX

Tried, fielded and trusted in some 50,000 electro-optical devices and systems, the Vectronix DMC is the most accurate and reliable digital magnetic compass available today. It is a key enabler in situational awareness, net-centric operations, threat detection and neutralization.



Customers can define which line of sight (1 to 6) and mounting (top, bottom, left-sided, right-sided) best suits their system design.

Each application is unique. Working with leading system integrators for over a decade has taught Vectronix to continuously innovate, refine and adapt to the widely varying user requirements. The DMC software interface is robust and flexible, facilitating effective, reliable communication and future upgrading.



Photo Sagem DS

Homeland Security: Integrated in the Sagem Vigilens Medium Range Multifunction Handheld Camera is an uncooled thermal imager and an LRF-DMC module from Vectronix.



Photo Sagem DS

Most soldier modernisation programs rely on DMCs to orient map displays, to navigate in GPS-denied areas and to locate threats by laser rangefinder or thermal imager. The small size, low weight and low power consumption contribute to the agility and sustainability of foot soldiers.



Three models to choose from



Accuracy (1σ)	DMC-SX 5000	DMC-SX 4000	DMC-SX 3000
Azimuth (heading)	± 0.25°	± 0.5°	± 1.0°
Elevation and bank	± 0.1°	± 0.25°	± 0.5°
Housing material	aluminium	aluminium	reinforced plastic
Weight	< 28 g (< 1 ounce)	< 28 g (< 1 ounce)	< 25 g (< 1 ounce)
Dimensions	33 x 31 x 13.5 mm	33 x 31 x 13.5 mm	33 x 31 x 13.5 mm
Power supply	5 V ± 5 %	5 V ± 5 %	5 V ± 5 %
Power consumption	250 mW max.	250 mW max.	250 mW max.
Serial interface	RS 232, 5 V TTL compatible	RS 232, 5 V TTL compatible	RS 232, 5 V TTL compatible



Photo PEO Soldier

DMC-SX withstands the shocks, vibrations and adverse environmental conditions found in small arms fire control applications. A simplified compass calibration procedure satisfies the safety concerns of the user community.



Photo 014dB-Metravib

Protecting surveillance posts and vital installations: PILAR gunshot detection systems use azimuth and elevation data from DMC-SX to locate threats.



Photo Bluefin Robotics

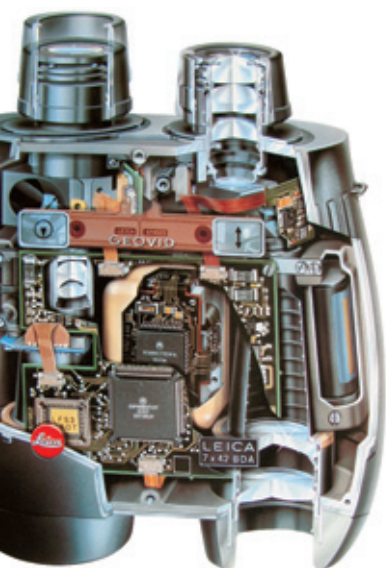
Underwater survey: DMC-SX is used as attitude and heading reference in a sonar mapping application.



Azimuth and elevation at a peacekeeper's fingertips, with MOSKITO, the latest day & night observation and location unit from Vectronix.

Module for system integrators

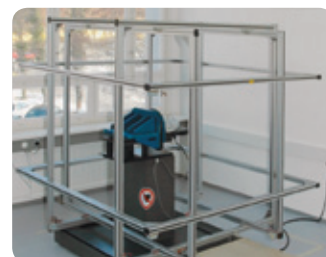
For quick, cost-effective, autonomous orientation and angle measurement in handheld observation instruments and tripod mounted survey equipment, the DMC is the obvious choice. Its consistently high quality and performance have led the most demanding prime contractors in America, Europe and Asia to adopt it in their systems.



In 1992 Leica Camera, Germany, introduced the GEOVID 7x42 BD with built-in digital magnetic compass DMC-1S, the predecessor of the DMC-SX series.



The DMC Starter Kit includes a demo program, example code and test software compatible with Microsoft Windows, along with RS232 adaptor, battery case and user manual. It gives system integrators a head start in assessing the digital magnetic northfinding technology, configuring their human-machine interface, selecting the most efficient calibration procedure for the intended application, etc.



Every DMC is factory calibrated to guarantee that the specified best-in-class azimuth and vertical angle accuracies are consistently achieved.

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