

SIGMA 20

TACTICAL LAND NAVIGATION & POINTING SYSTEM



- > UNJAMMABLE POSITIONING & AIMING FOR DIGITAL BATTLEFIELD
- > UNMATCHED RELIABILITY
- > EUROPEAN TECHNOLOGY FOR WORLD BEST VALUE SOLUTION



SIGMA 20

Tactical land navigation & pointing system

Capitalizing on Safran Electronics & Defense's 60-year experience in inertial technologies, Sigma 20, latest equipment of the Sigma family, is an innovative and high performance land navigation unit providing accurate position and attitudes even in case of GPS outage.

Thanks to its advanced HRG (Hemispheric Resonator Gyros) and its innovative alignment method, Sigma 20 achieves a breakthrough in providing accurate data quicker than any other inertial navigation system.

Easily integrated in any vehicle of a digital battlefield, Sigma 20 has a straightforward design for mobile systems such as:

- Main Battle Tanks
- Air-Defense Systems
- Radar Systems
- Recce vehicles
- Observation vehicles



With a proven outstanding reliability, Sigma 20 is the most cost effective navigation and aiming solution in the world.

As a world leader in navigation and with its customer- oriented organization, Safran Electronics & Defense always provides the best solution you deserve.

- Cost-effective solution
- High reliability
- Non GPS dependent

Technical specifications

Combat-ready within 1 min

MTBF

- >50,000 hours

SWaP

- Size: 293 x 136 x 210 mm
- Weight: 4.5kg
- Power: <28W

Power supply

- 18-32V

Environments

- MIL-STD- 461 F
- MIL-STD- 462 D
- MIL-STD- 810 F
- MIL-STD- 1275 B

Interfaces

- RS422-RS232
- CANBUS
- GPS interface: NMEA-0183 Protocol

System performances without GPS

SYSTEM	SIGMA 20-100	SIGMA 20-200	SIGMA 20-300	SIGMA 20-400
Horizontal position	0.8% DT (CEP)	0.5% DT (CEP)	0.25% DT (CEP)	0.25% DT (CEP)
Vertical position	0.5% DT (PE)	0.5% DT (PE)	0.2% DT (PE)	0.15% DT (PE)
Heading	8 mils (rms)	4 mils (rms)	2 mils (rms)	1 mils (rms)
Pitch & Roll	4 mils (rms)	2 mils (rms)	1 mils (rms)	1 mils (rms)

DT: Distance Travelled

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