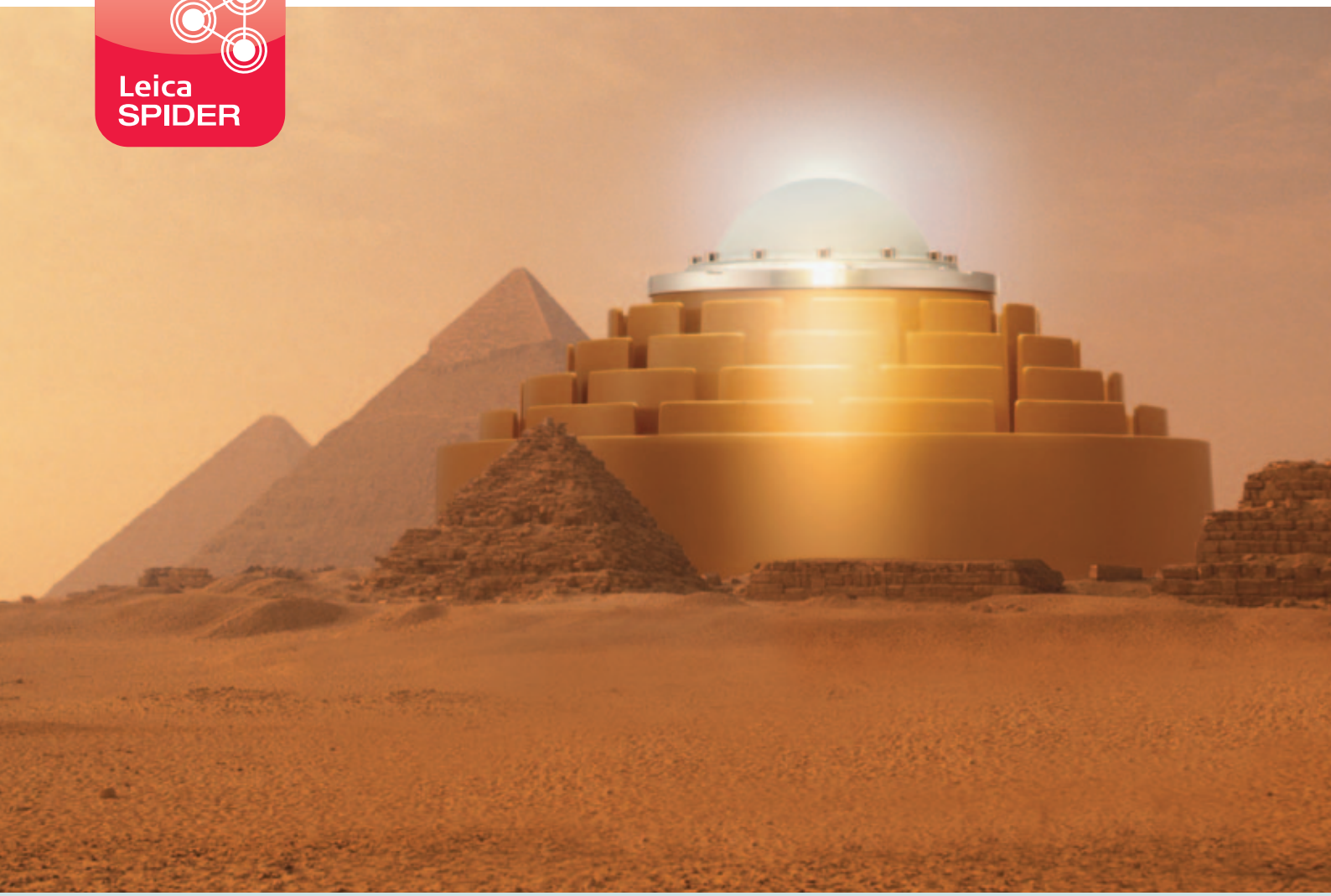
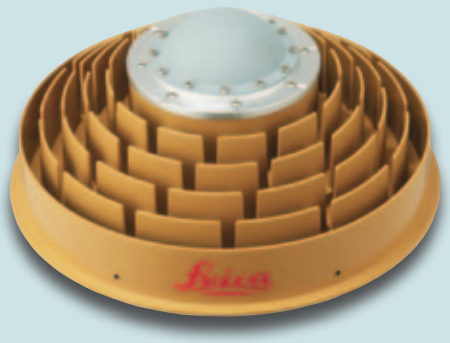
Leica AR25

4 Constellation GNSS Antenna
Revolutionary Design, Built to Last

Leica SPIDER





Will your infrastructure stand the test of time?

The Egyptians showed great ingenuity and innovation to build the pyramids with such precision and strength that they still stand today. The revolutionary 4 constellation AR25 choke ring antenna sets new standards in low elevation tracking and multipath reduction by using an innovative 3D design that is built to last, even in the harshest of environments.

- when it has to be **right**

Leica Geosystems

Leica AR25
Stay ahead – be prepared

With emerging satellite systems closely on the horizon, in the form of the European Galileo System and the Chinese Compass (Beidou) System, a new high performance antenna is needed to encompass all Global Navigation Satellite Systems, and further support the Leica Geosystems "future proof" philosophy.

The new AR25 has been designed for all existing and currently planned signals of the GPS, GLONASS, Galileo and Compass systems.

GNSS future proof

The way ahead

The Leica AR25 brings choke ring design to a new level to enhance the key benefits of the choke ring antenna. Moving away from the traditional 2D choke ring design, the innovative 3D choke ring sets a new standard, whilst building on the strong traditions of the previous design. The AR25 uses a new ultra-wideband Dorne-Margolin element. The Dorne-Margolin antenna element design has become the industry standard for high accuracy and performance. Antenna gain has been optimised to allow use with most manufacturers geodetic receivers.

New standard

Choke ring antennas are known for their superior multipath rejection compared to other types of geodetic antennas. The Leica AR25 maintains superior levels of multipath rejection and tracking expected from a choke ring antenna, whilst setting new standards in low elevation tracking compared to traditional 2D choke ring design.

Enhances in atmospheric studies and network RTK modelling demand high performance antennas that can track satellites as soon as they are visible, down to the horizon and even below. Designed for a variety of applications, including reference stations, monitoring, seismic studies, scientific and atmospheric studies, the AR25 is a robust high performance antenna, built to stand the test of time.

Technical Specification	
Leica AR25	
Design	Dorne-Margolin antenna element with 3D choke ring ground plane
Signals tracked	GPS: L1, L2, L2c, L5 GLONASS: L1, L2, L3 Galileo: E2-L1-E1, E5a, E5b, E6, AltBOC Compass: B1, B2, B3, L5 L-Band (incl. SBAS, OmniSTAR and CDGPS)
Dimensions	380 mm x 200 mm
Weight	7.6 kg
Connector	N-Type with TNC adapter supplied
Supply Voltage	3.3 –12 VDC
Nominal Impedance	50 ohms
Gain	typically 40 dBi
Noise Figure	0.5 – 1.2 dBi
Temperature, operating	–55° C to +85° C
Temperature, storage	–55° C to +90° C
Environmental Protection	Humidity: up to 100% Rain, dust, sand, wind: IP67 – Protection against blowing rain and dust. Waterproof to temporary submersion into water (1m)
Accessories	Weatherproof radome available
Antenna Cables	Are available in lengths of 1.2/2.8/10/30/50/70 metres. Longer cables available on request

TQM ISO 9001 / ISO 14001

Total Quality Management – our commitment to total customer satisfaction.

Ask your local Leica Geosystems dealer for more information about our TQM program.

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