

<b>IBIS Rover</b>	
<b>TECHNICAL SPECIFICATIONS</b>	
Accuracy	+/- 0.1 mm (l.o.s.)
Spatial Resolution <sup>(1)</sup>	Range 0.5 m, Cross Range: 10 mrad @1 km, 0.5 m by 5 m @2 km, 0.5 m by 10 m
Operating Range	50 m to 2500 m
Field of view	270°
Operating Temperature <sup>(2)</sup>	-30°C to +55°C
Scan Time	1 - 3 min
Power Consumption	120 W
Wind	Up to 150 km/h
Transport Speed	Up to 100 km/h
Supply	110/230Vac
Supply Autonomy	15 days without solar power
Environment	IP66
Certifications	FCC, CE, IC
<b>SOFTWARE SPECIFICATIONS</b>	
IBIS Controller: Acquisition & system management software	Session setup wizard Power supply control Status information Preliminary data processing Automatic data transfer
IBIS Guardian: Real time processing, data interpretation & early warning software	Automatic atmospheric correction Alarm generation with user-defined levels Multiple alarm criteria based on area definition 3D interactive data representation Data export to mine planning third party software External Digital Terrain Model (DTM) import

<b>RADIO-EQUIPMENT SPECIFICATIONS</b>	
<b>Transmitter specifications</b>	
Radio-frequency band <sup>(1)</sup>	17.05-17.35 GHz
Maximum power at the antenna connector	12 dBm
EIRP Power	26dBm
Emission bandwidth <sup>(1)</sup>	300 MHz
Modulation	Linear Frequency Modulated Continuous Wave (LFMCW)
Spurious emissions	<-30 dBm/MHz
Standby emissions	<-70 dBm/MHz
<b>Receiver specifications</b>	
Radio-frequency band <sup>(1)</sup>	17.05-17.35 GHz
<b>Antenna specifications</b>	
-3dB Beamwidth	In the horizontal plane: 50 deg In the vertical plane: 20 deg
Polarization	Vertical
Gain	14 dBi

(1) Range resolution depends on the frequency bandwidth authorized by local radio regulation. As an example in USA and Europe the bandwidth is limited to 200 MHz and the range resolution is 0.75 m.

(2) Temperature below -10° requires an additional Low Temperature Kit.