

Leica ContentMapper product specifications

SENSOR POD

Integrated frame size	40,000 x 8200 pixels (4-band)
Min. frame interval	0.8 sec
Field of view	67.1°
RGB : NIR resolution	1 : 1.6
Flying height	4470 m @ 15 cm GSD, 2000 m AGL minimum
Height / diameter	560 mm / 408 mm (lower) / 435 (upper)
Weight	37.1 kg
Pixel size & type	3.76 um, BSI CMOS
Dynamic range	83 dB
Resolution A/D converter	14-bit
Data channel	14-bit proprietary compression
Motion compensation	Mechanical FMC
Spectral bands	R (580 - 660 nm) G (480 - 590 nm) B (420 - 510 nm) NIR (720 - 850 nm) (Monochrome)
Shutter	Max. speed 1/1000 sec Mechanical central shutter with up to 500,000 cycles Field exchangeable
Aperture	Automatically controlled aperture, 7 half f-stop steps
Lens mount	Positive mechanical connection

INTEGRATED GNSS/IMU SYSTEM

IMU	SPAN CNUS5-H, Class 5, 500 Hz, FOG no export license required US ECCN 7A994
GNSS	NovAtel SPAN OEM7, 555 channel multi constellation receiver with 10 Hz GNSS data rate
Additional features	Real-time deeply coupled solution for position and attitude at highest accuracies, fully integrated and embedded solution, no interfaces to 3 rd party needed
Position RMS DGNS	Post processed (specification): X,Y ≤ 3-5 cm, Z ≤ 5-7 cm Post processed (typical): X,Y ≤ 2-3 cm, Z ≤ 3-5 cm
Attitude RMS	Post processed (specification): R,P ≤ 0.005°, H ≤ 0.008° Post processed (experienced): R,P ≤ 0.003°, H ≤ 0.004°

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PERIPHERALS

Sensor mount	Leica PAV100-HPH gyro-stabilised sensor mount for high-performance data acquisition 42.4 kg
Operator console	Leica OC60 12.1" screen with 1024 x 768 resolution 3.9 kg
Pilot display	Leica PD60 6.3" screen with 1024 x 768 resolution, designed for cockpit mounting 1.0 kg
Display stand	IS40-LW stand for Leica OC60 Operator Display 3.2 kg
Mass memory	Leica MM30 solid state drive 7,680 GB each ContentMapper holds 2 MM30s Joint volume 15.36 TB, ≥ 8.0 h of data collection 0.4 kg each, 2 required, removable and portable

ENVIRONMENTAL

Pressure	Non-pressurised cabin up to ICAO 20,000 ft
Humidity	0% to 95% RH according to ISO7137 (non-condensing)
Operating temperature	-10°C to 40°C
Storage temperature	-40°C to 70°C

ELECTRICAL

Max. avg. power consumption of complete system	449 W / 28 VDC
Max. peak power consumption of complete system	512 W (< 60s) / 28 VDC
Fuse on aircraft power outlet	1 x 40 A recommended

SYSTEM WEIGHT

System installation	96.9 kg
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SOFTWARE

Mission planning	Leica MissionPro
Flight navigation & sensor operation	Leica FlightPro
GNSS/INS trajectory processing	NovAtel Inertial Explorer
Image processing	Leica HxMap

STANDARDS

RTCA DO-160G, EUROCAE-14G, USA FCC Part 15, ISO7137

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