

Leica Scanstation C10 Leica HDS6200 Product information and specifications



HDS7000



1) Higher Productivity

Ultra-high speed scanning and a

2) More Robustness

Operate with confidence from nvironments with a reliable, and a safe class 1 laser

3) Better Data Quality

4) Better Useability

Because productivity matters!

Total Quality Management -our commitment to total customer satisfaction. Ask your local Leica Geosystems dealer for more information about our TQM program.

Laser plummet: Laser class2 in accordance with IEC 60825-1 resp. EN 60825

ΤΟΜ

ISO 9001 / ISO 14001

Scanner: Laser class1 in accordance with IEC 60825-1 resp. EN 60825

Distributed by

Leica Geosystems AG Heerbrugg, Switzerland www.leica-geosystems.com/hds





Whether you're designing a modification to a complex refinery piping system, surveying a site or documenting a historic building, you need reliable measurements. High-Definition Surveying[™] scanning systems and software by Leica Geosystems provide you with exact data of what's there.

When your as-built information has to be right, rely on Leica Geosystems, the company that professionals trust for their scanning solutions. Leica Geosystems is best known for pioneering scanning technology with trustworthy, total solutions: versatile, accurate laser scanners, industry standard point cloud software, and a full complement of accessories, training and support.

Precision, quality and service from Leica Geosystems.

When it has to be right.

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REGISTÉR



Leica Cyclone Product information

Leica Cyclone MODEL



Product information

Ultra-high Speed







HDS7000 – Ultra-high Speed Laser Scanning for Demanding Professionals

Within the practice of using 3D laser scanners to remotely capture detailed, "as-is" geometry of structures, sites and scenes, phase-based scanners are known for their ultra-high scan speeds and their high level of detail. Adding to this basic speed capability (>1 million points/second), the HDS7000 phase-based scanner provides important "next level" performance features for demanding professionals.

Multiple application areas



Plant

- Industrial design

tra-high speed scans

Building

- Architecture Building Information
- Heritage

field of view captures more system design allow for

Civil

- Infrastructure
- Engineering

Construction

Forensic

- Crime Scene Investigtion (CSI)
- Accident documentatio

Security mentation of any scen

Data Mar

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0° x 320° Field-of-vi

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HDS7000 Key Performance	Specifications
Instrument type	Compact, phase-based, dual-axis compensated, ultra-high speed laser scanner, with survey-grade
	accuracy, range, field-of-view and laser plummet
User interface	Onboard control, notebook or tablet PC, PDA
Туре	Phase-shift
Color / Wavelength	Invisible, 1.5 µm
Laser Class	1 (IEC 60825-1)
Range	187 m ambiguity interval
	0.3 m minimum range
	0.1 mmm resolution
Linearity error ¹	≤lmm
Spot size	~3.5 mm @ 0.1 m distance (Gaussian-based)
Beam divergence	< 0.3 mrad
Scan rate	Up to 1,016,727 points/sec, maximum instantaneous rate
Range noise	Range Black 14% Gray 37% White 80%
	10 m ¹² 0.5 mm rms 0.4 mm rms 0.3 mm rms
	25 m ¹² 1.0 mm rms 0.6 mm rms 0.5 mm rms
	50 m ¹² 2.7 mm rms 1.2 mm rms 0.8 mm rms
	100 m ¹²³ 10 mm rms 3.8 mm rms 2.0 mm rms
Scan resolution	7 pre-set spacings selectable
Field-of-View	max. 360° x 320° (horizontal/vertical)
Angular accuracy	125 µrad/125 µrad (horizontal/vertical)
Data storage	64 GB flash drive (integrated), 2 x 32 GB USB flash drive (external)
Onboard display	Touchscreen control with stylus, full color graphic display, VGA (640 x 320 pixels)
Dual-axis	Selectable on/off, resolution 3.6", measurement range +/- 30', accuracy < 25"
compensator	
Temperature	Operation: -10°C to +45°C; Storage: -20°C to +50°C
Dust/humidity	IP53 (IEC60529)

All specifications are subject to change without notice.

¹ Detailed explanation on request

² Data rate 127000 pts/sec (equivalent to "high resolution, high quality scan), 1 sigma range noise, unfiltered raw data ³ All values extrapolated

Complete Solutions from Leica Geosystems



Software

oftware suite takes you CAD plug-ins, TruView free creating final deliverables

Training

classroom training by the

Support

responsiveness of Leica professionals instruct users is commonly cited as a key software ensures the best "Leica" more than all

Active Customer Care

maintained equipment an That's what Leica Geosy

Contact your local support offer. With myWorld you h



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