

**PENTAX**

# Scanning System

**P-1000**

Long Range Laser  
Measurement System

**Available soon**

- + Integrated 5 MP digital camera with a rotary mechanism
- + Li-Ion battery with 3 hours operation time
- + Large size touch screen control panel with intuitive user interface
- + Laser plummet
- + Built-in GPS, GLONASS and Beidou
- + Level indicator with electronic bubble
- + Dual-axis compensator
- + 3 Types of "Scanworks" software (Basic/Pro/Server) for post-processing point cloud data



TI Asahi Co.,Ltd  
**Aiming at the future together!**

# SCANNING SYSTEM SPECIFICATIONS

Model	<b>P-1000</b>	
<b>Laser Scanning System</b>	Type	Pulsed
	Color	1,550nm
	Laser class	CLASS 1
	Scanning optics	Vertical rotating mirror on horizontally rotating base
	Range	>500 m @20% >1000M@90%
	Scan rate	100,000 Points/sec
	Field of view	360°(Horizontal), 300°(Vertical)
	Laser spot size	6mm+0.3xD(mm)
	Point spacing/Scanning density	1mm @10m
	Pulse return	2
<b>System Performance</b>	Position/Single measurement	7mm@ 100 m
	Distance/ Single measurement	6mm@ 100m
	Angle Resolution	3"H.V10"
	Modeled surface	2.5mm
	Target acquisition	2.5mm
	Dual-axis compensator	Dynamic range ±5°, resolution 1.8" (0.0005°), Accuracy 14" (0.004°)
<b>Digital Camera</b>	Type	Integrated high resolution digital camera
	Resolution	5 MP (2592x1944)
		Full 360°x300 dome
<b>Miscellaneous</b>		External port for Camera
	User Interface	On board touch screen control panel
	Display	Touch screen with full color graphic display (QVGA640X480)
	Leveling indicator	External bubble, Electronic bubble in onboard control
	GNSS Receiver	Built- in GPS and Glonass (Beidou/ optional)
	Data storage	60GB integrated hard disk
	Laser plummet	Red color, Selectable on/ off
<b>Interface</b>	Port	Ethernet, 2x USB port, Power cable, GPS, GPRS Antenna
	RTK/SIM socket	Built-in
	External port	For WIFI/ Bluetooth
	Data transfer	Ethernet, USB2.0 port for data storage/PC connection
<b>Power Supply</b>	Voltage	24vDC, 220v AC
	Power consumption	55W
	Battery type	Internal Li-on
	Battery duration	Internal battery > 3hrs
	Power port	Internal battery x1, Externalx1 (simultaneous use)
<b>Environment</b>	Operating temperature	0~45°C
	Storage temperature	-10° C~55° C
	Lighting	Fully operated between sunlight and complete darkness
	Humidity	Non-condensing
	Dust/ Humidity	IP64
<b>Dimension</b>	Scanner DxWxH	98X175X260 mm
	Scanner weight	10KG(battery included, w/o GPS antenna)
	Internal battery DxWxH	175X96X45mm
	Battery weight	1.0KG
<b>Accessory</b>	Scanner carrying case	1
	Tribrach	1
	Li-on Battery	2
	Battery charger/AC power cable	1
	Data cable	1
	Height meter and distance meter	1
	Cleaning Kit	1
	Manual book	1
	GNSS Antenna (Optional)	GPS/Glonass/Beidou

Designs and specifications are subject to change without notice, configuration is subject to changes per country, please contact your local dealer. -Printed in Belgium - LEAF-P1000-EN-1709 - © PENTAX 2017

**PENTAX** is dedicated to providing customers with first class scanning systems. We have carefully designed high-quality products to meet the needs of today's surveyor's based on the experience of many years involved in instrument design and construction. We are committed to ease of use, a low cost of ownership and flexibility to accommodate different working environments. Our close partners are carefully chosen and are committed to these values as we are.

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The CE marking assures that this product complies with the requirements of the EC directive for safety.



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