

JMX PanoramaScanner

Calibrated high resolution image scanner

Contact-free measurements up to several hundred meters

Don't lose information on site!

General

Principle	PanoramaScanner takes image columns while scan head is turning At least to images required -Stereoscopic image measurement Surveyed control points required for referenced measurements
Objects	Rock walls and constructions from 3 m to 300 m height
Operating range	From 1 m up to several 100 meters
Field of View Measurement (FoVM)	Depends on application: Vertical: up to 120° Horizontal: 120° typ.
Field of View Imaging (FoVI)	Vertical: up to 180° Horizontal: 360°
Spatial resolution	1/5000 FoVM, e.g. 2 mm for a rock wall of 10 m height.

Imaging

Image size	5000x5000 up to 30000x5000 depending on application
Lens	Various lenses possible ranging from focal lengths of 14 mm to 200 mm
Color depth	48 bit per pixel, 3x16 bit per colour channel (RGB)
Scan time	30s up to several minutes depending on used lens, lighting, and required resolution
Overall weight	<15 kg
Power supply	Autonomous, no external cabling
Operating time	5 hours between recharging
Light source	1 – 2 floodlights (for subsurface applications)

Software & Hardware

Calibration	Calibration system (hard- & software) considering the special panoramic image geometry
Imaging control	Graphical user interface for easy controlling the imaging process via notebook
Imaging PC	1 (ruggedised) notebook for image acquisition: PIII or higher, 512 MB RAM or more
Analysis PC	1 desktop for image processing and project management: PIV or higher, 512 MB RAM or more, 64 MB graphics card
Operating system	Windows 2000 or XP Linux, Unix on request

Specifications subject to change without notice