



CAVITY MONITORING SYSTEM

Faster scan speed, reducing current scan time by 50%

Wired or wireless connectivity

Windows controller for use with laptop/ultra mobile PC

Operator service menus for improved diagnostics



Our newest CMS builds on the already popular WCMS product by adding functionality that increases speed and robustness without sacrificing the qualities that users have come to rely on.

REVOLUTIONIZING 3D SURVEYING IN SUBTERRANEAN CAVITIES

The CMS (Cavity Monitoring System) is the ideal scanning solution for dangerous and inaccessible cavities. The system is easy to transport and set up, and is fully programmable, allowing the user to define scan parameters including elevation step, azimuth step and scan limits.

Optech
The Lidar Company™

CAVITY MONITORING SYSTEM



Parameter	Specification
PERFORMANCE	
Maximum range	350 m @ 20% reflectance
Wireless operation	IEEE 802.11 B/G
Range resolution	1 cm
Angular resolution	0.1°
Range accuracy	±2 cm within limited operating temperature
Spot size	4 cm+ (0.005 x distance) (cm)
Maximum readings	50,000 points per survey
Laser repetition rate	2 kHz
Scan time (360° x 280°)	30 min (@ 1.5° Azimuth angle or greater)
OUTPUT	
Output format	DXF, ASCII XYZ
POWER	
Internal battery	24 VDC battery
	Charger for 110/220 VAC
ENVIRONMENTAL	
Operating temperature	-10°C to +50°C
Visible laser pointer	0°C to 40°C
Storage temperature	-40°C to +50°C
PHYSICAL SIZE	
Scanning head	53(L) x 16.8(W) x 15.2(H) cm
Weight	7 kg
Power module	27(L) x 24.7(W) x 17.5(H) cm
Weight	8.3 kg
Support system	Boom
	Mast
	229(L) x 23(W) x 25(H) cm
	193(L) x 20(W) x 25(H) cm
Weight	44.5 kg
EYESAFETY	
Infrared rangefinder laser	FDA Class I; 21 CFR 1040
Visible laser pointer	FDA Class II; 21 CFR 1040
STANDARD FEATURES	
Heavy duty carry case	
Interconnect cable	
Battery charger	
OPTIONAL ACCESSORIES	
Volume calculating software	
Vertical insertion package	
Tripod mounting bracket	
PC/PDA	
Booms/mast	