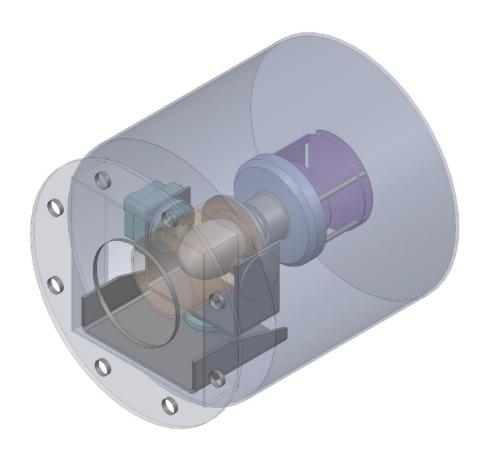


3D Profilometer

MWS-PM30 PAT. PEND.

Milli-Scanner

UNAFFECTED BY HEART, FLAMES, DUST OR VAPOR!



The Milli-Scanner MWS-PM30 is a 3D profilometer that uses the latest milli wave technology.

It scans the surface of the target object and displays and outputs a 3D surface profile.

WADECO CO.,LTD.

Overview

UNAFFECTED BY HEART, FLAMES, DUST OR VAPOR!

The MWS-PM30 Milli-Scanner emits a millimeter-wave beam from its antenna to scan the surface of a target object. It continuously measures the distance at each scanning position in real time, converts the data into a 3D surface map and cross-sectional profile, and displays the results on a PC.

This technology enables users to visualize the shapes of objects obscured by flames—previously undetectable by the human eye or cameras—and accurately assess the accumulation conditions inside silos and hoppers.

Features

Operates in Harsh Environments

Millimeter waves are unaffected by high temperatures, steam, flames, or dust.

3D Surface Map and Cross-Section Profile Display.

Continuously measures and displays both the 3D surface map and cross-sectional profile of the target object on a PC.

The measured data is saved to the hard disk of the data processing PC.

High Reliability

The system incorporates technologies and experience developed through 3D measurement of blast furnace interior surfaces. Stable measurement is possible over long periods even in harsh environments.

Compact and Simple Structure

Compact, simple design with easy maintenance.

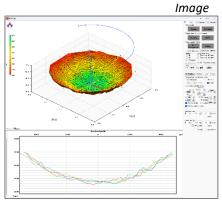
Specifications

Model	MWS-PM30
Power supply voltage	AC100V ~ AC240V
Range	Max.15m(from bottom of profilometer)
Beam angle	X direction : ±15° Y direction : ±15°
Measurement accuracy	Approx. ±50mm (1σ) * Depends on target object
Measurement time	Approx. 60sec. (Depends on parameter setting)
Ambient temperature	-10°C to +50°C
Construction	Main cover: SPCC, Control box: SPCC
Weight	3D Profilometer approx. 10kg, Control box approx. 10kg

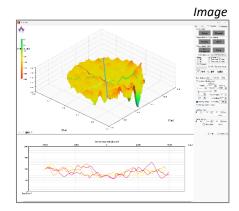
Applications

Silos and Hoppers

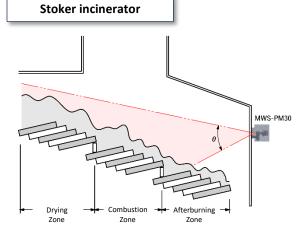




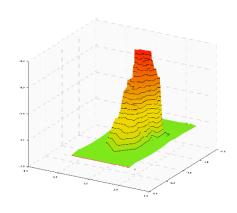
<u>3D surface map and cross-sectional profile</u> <u>at arbitrary angles</u>



Display of descending speed



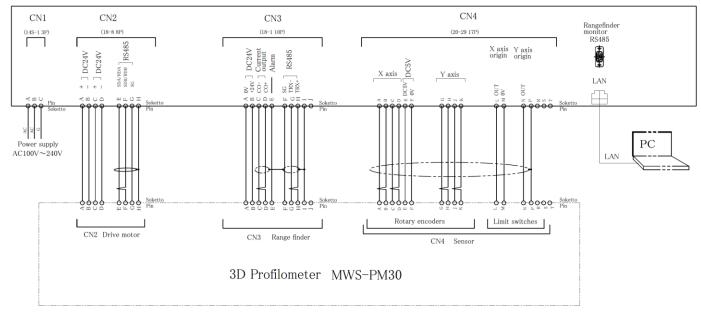




Example of 3D garbage measurement

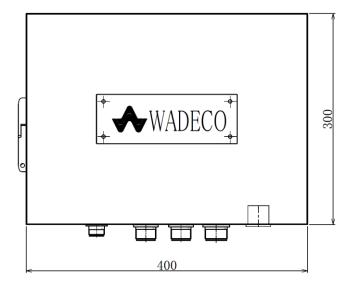
Wiring Diagrams

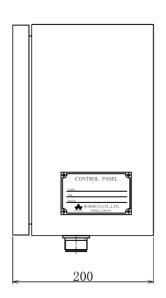
Controi box



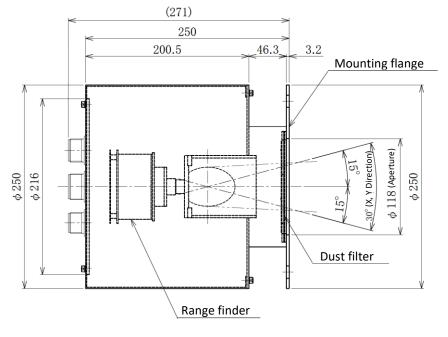
Dimensions

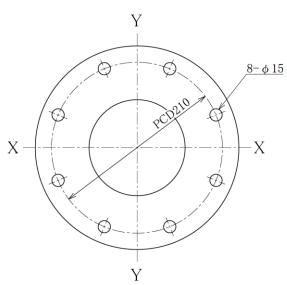
Control box





3D Profilometer





These specifications may be changed without notice.



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