

Optical Emission Spectrometer

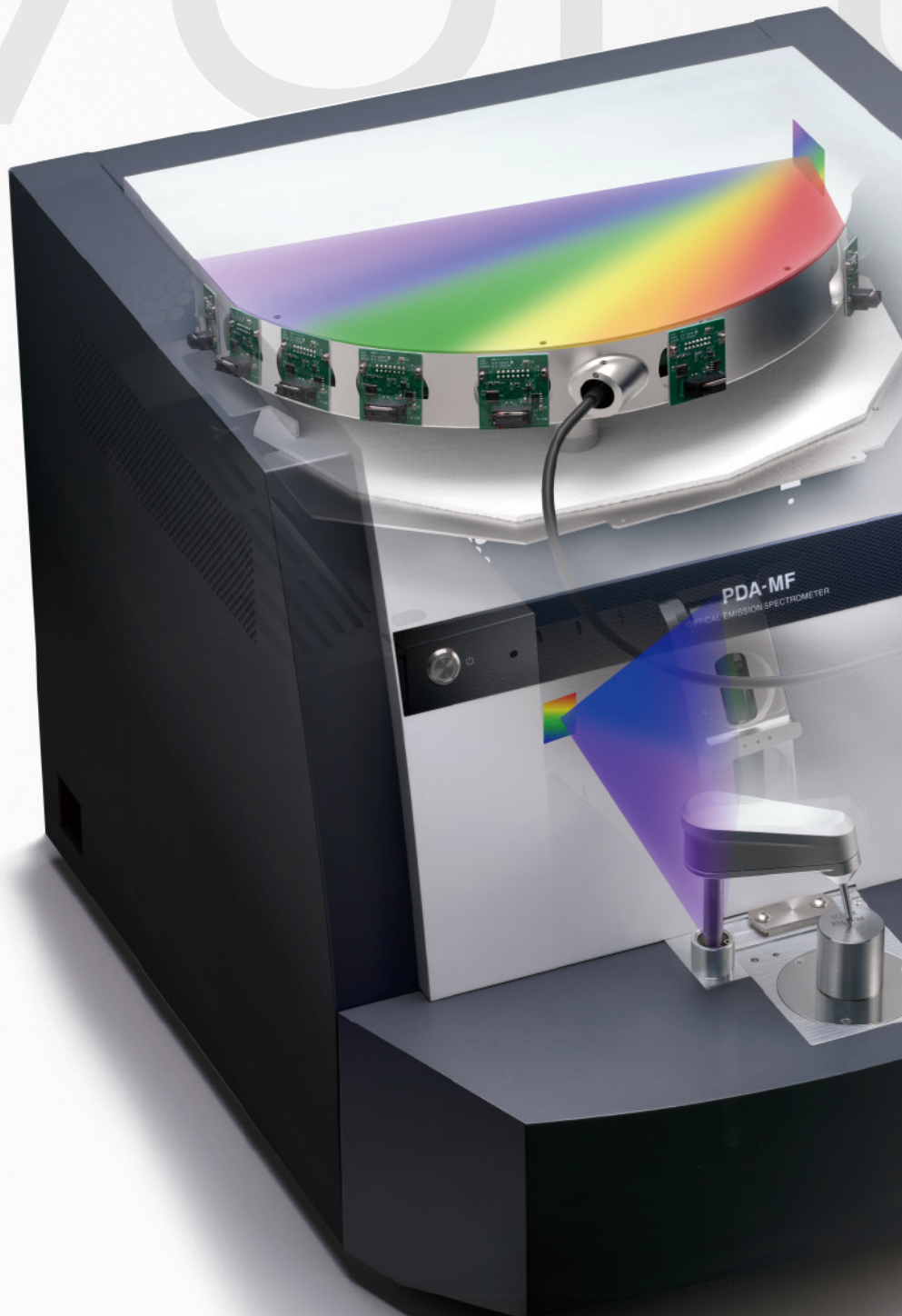
PDA-MF Series



TOP PERFORMANCE ANALYSIS

Easily Explore Unknown Materials

A totally new direct-reading spectrometer, the PDA-MF™ series, based on the technologies accumulated by Shimadzu over 140 years, inherits the high performance and stability of previous Shimadzu spectrometers. The PDA-MF series also utilizes a high-resolution CCD (Charge-Coupled Device) whole-spectrum detection optical system to successfully enable a breakthrough in compactness and flexibility.



ULTRON



Easy to Handle the Measurement of Various Special Samples

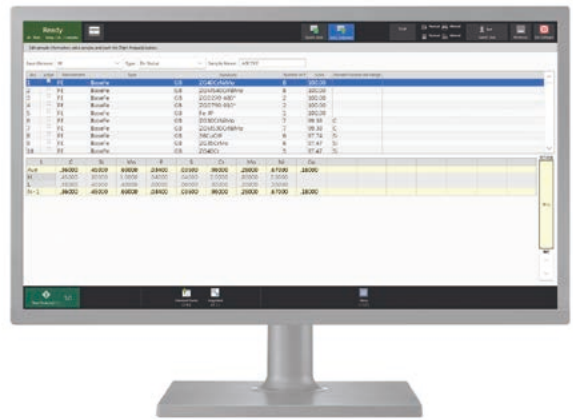


The design of the three-sided open spark stand and the sliding sample-pressing rod ensures precise measurement of any sample size. By selecting a special designed sample fixture, special sample such as thin sheets, bars, and small samples can be analyzed easily. Designed by ergonomics experts and tested through on-site experiments, the new excitation table is safe and convenient. The excitation table cover-plate can be easily opened without removing the table or using any special tools, which enables routine maintenance to be performed more easily and conveniently.

Rapid Identification and Analysis of Unknown Samples

The powerful database of global standard alloy grades and the new Positive Material Identification (PMI) software enable the PDA-MF series to determine the composition and alloy grade of a material rapidly, with a single excitation, thus realize the easy and prompt identification and analysis of unknown samples.

The PDA-MF series has already become a key tool in the quality control systems including the raw material evaluation, semi-finished product test and finished product re-inspection used by the metal material manufacturers, the machining process companies as well as the third-party inspection organizations.



Step 1
Set the sample.



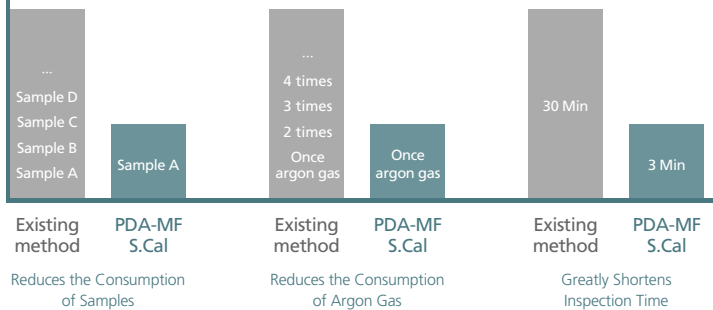
Step 2
Automatically match the sample to library.

Step 3
Identify the sample by referring to the metal grade.

Ultimate Pursuit for Low Running Costs

Routine Standardization Tests

Comparison of methods when calibrating Fe, Al, and Cu substrates



Using the innovative smart calibration function (S.Cal™), a single sample can be used to finish all standardizations, so it is possible to drastically reduce running costs such as costs for samples and argon gas.

With the new computer controlled Argon Saving Management Mode (ASMM), the instrument can switch automatically between the analysis, standby, and idle states to reduce the consumption of argon gas to a minimum.

PDA-S™ Analysis Software

Simple, Smart, and Powerful

The totally new PDA-S software makes user operability the first priority with a simple analysis interface that enables all routine operations and maintenance to be performed easily. Users can easily learn to use the instrument and operate it easily after a short training. Since the PDA-S also inherits the intelligent and user-friendly characteristics of the PDA series software, it can comprehensively manage and monitor the operation, diagnosis, and maintenance, thus realize easy operation and maintenance.



PDA-MF Series

Optical Emission Spectrometer

ULTIMATON



Full-Element Detection Program
One-Step Identification and Analysis of Unknown Samples
Ultimate Low Running Costs

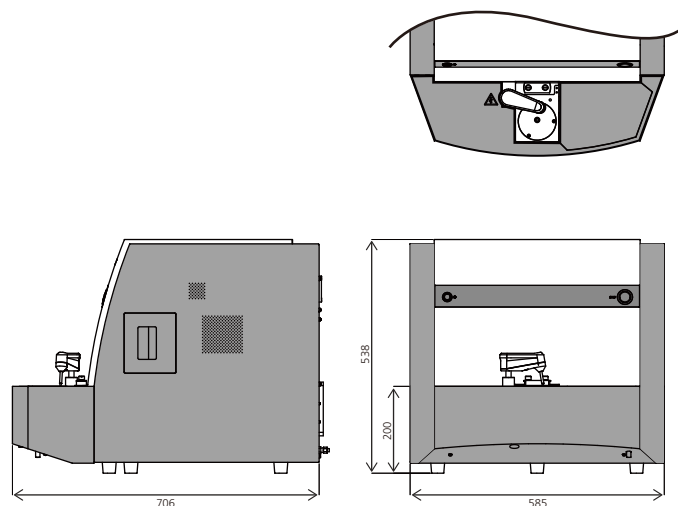
Specifications

Main Indexes	PDA-MF	PDA-MF Plus
Applicable Materials	Non-ferrous metals	Ferrous and non-ferrous metals
Spectrometer System	Paschen-Runge mounting, Concave holographic ion-etched grating	
Readout System	High-resolution CCD detector	
Software	PDA-S software package for analyzing operation and calibration, daily management of analysis data, guidance on maintenance operations and self-diagnosis function.	
Installation Environment Requirements		
Temperature	10-28°C	
Humidity	15-70% max.	
Power Supply	220 V – 240 V \pm 10% 1 ϕ 300 VA	
Argon Gas	Minimum purity 99.999%. Maximum O ₂ content of 1 ppm.	

External Dimensions and Weight

Main Unit: W585 × D706 × H538 mm

Weight: Approx. 65 kg



This product is certified as Shimadzu's Eco-Products Plus.

Reduced power consumption by 60.5% compared with conventional Shimadzu's products*.

*: PDA-5000

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