



**PHARMA
TEST**

**We are not satisfied
with just scanning the surface.
We screen it.**

PT-IM100

Powder Tester



The PT-IM100 represents an Innovative, Reliable and Flexible Analyzer for the Identification, Qualification and Quantification of Incoming Raw Materials According to EP <2.2.40> and USP <1119>.

Advantages

- › Compact System
- › Rapid Scan
- › Customized software packages
- › No sample preparation required
- › Low cost per analysis methodology
- › Established Sensologic Software, market proven since 15 years
- › Movable optical grating realized with MEMS technology

The PT-IM100 is a fast, reliable and flexible NIR analysis system, which is used for the identification, qualification and quantification of a wide range of products such as ointments, creams, powders, tablets and other raw materials. The system proves its value in production factories as an at-line tester or in quality control laboratories. The wavelength range of 1000 to 1900nm with high wavelength accuracy and reproducibility allows detecting and analyzing of substances based on the vibrational properties of the molecules very effectively. As the method uses a Photometric procedure, the costs per analysis methodology for product identification and fingerprinting will be low.

Specifications of the PT-IM100

- › Measurement time: <15 seconds
- › Spectral range: 1,000–1,900 nm
- › Spectral resolution: 10 nm
- › Wavelength stability: ± 1 nm
- › Working temperature: 15–35°C
- › Working temperature: 15–35 °C
- › Interface: USB
- › Dimensions (Packaging): 61×56×61 cm
- › Net Weight: 11 kg



Further information is available at
www.pharma-test.com/pt-im100

Sensologic Software:

Qualitative calibrations allow to determine or to confirm the identity of samples. Series of spectra must be measured for each substance or class to be distinguished and these series must be compiled to form one library. A mathematical model can then be set up to calculate the criteria for the identification of substances or classes.

The package provides two types of qualitative calibrations:

Library calibrations are mainly used to confirm the identity of samples, e.g.

- » Raw materials arriving at the plant
- » Materials before they are used in production
- » End products before they are sent to the customer.

A calibration is necessary to establish a correlation between variations in the sample's spectra and the parameters of interest, i.e. quantifiable properties in a quantitative calibration, or the identity of a sample in a qualitative calibration.

This package is designed to be used as calibration software independent of the instrument used for routine measurement. It provides comprehensive and easy-to-use tools to import, calculate, and evaluate calibrations and set up applications for routine analysis.

The Data option of the CWS Main Menu provides comprehensive possibilities to work with spectral data.

Detection

With Fraunhofer IPMS scanning grating spectrometers, the light is diffracted on a movable optical grating realized in a MEMS technology. The device utilizes a resonantly driving principle of the grating which enables to scan a spectrum with a single highly sensitive detector instead of an array arrangement. The central element of the spectrometer is a MEMS chip which has been developed by Fraunhofer IPMS and measures just (9.5×5.3×0.5) mm³

(Source: Fraunhofer Institute)