

PAMAS FastPatch 2 GO **Automatic microscope system** **for quality control analysis**

Advanced automated particle and fibre counting system

Complying with ISO 4407 – Standardised measuring reports according to:

- SAE AS 4059 (B-F)
- ISO 16232
- ISO 4406
- NAS 1638
- Any user defined standard

Applications:

- Dark fluids
- Two phase liquids
- Emulsions
- High levels of contamination
- Very high viscosities (dilution required)
- Water Glycol based fluids
- Oil based fluids

PAMAS FastPatch 2 GO

Standardised membrane filter analysis

through an advanced automated particle counting system



The **PAMAS FastPatch 2 GO** microscope system has been developed to comply with the standard ISO 4407 as an automated filter membrane particle counting and sizing system. The system is designed to analyse the particles trapped on the surface of the filter. The analysis uses advanced image analysis and microscope automation techniques to provide rapid and accurate contamination results of whole or user specified areas of filters. Cross contamination and uneven membrane filter issues are both eliminated by encasing the patch within a slide mount. This also enables multiple analyses of the same sample should the user or customer require it. The accurate and repeatable measuring results of the **PAMAS FastPatch 2 GO** are displayed in real time: providing a constantly updated particle count and contamination class results table.

The clear and concise user defined end report displays the full patch analysis overview and the contamination classification table. The user can capture images from any area of the filter membrane and add them to the end report with the size of each particle displayed. The **PAMAS FastPatch 2 GO** system complies with the international standard ISO 4407 and provides results to the following standards: SAE AS 4059, ISO 16232, NAS 1638 and ISO 4406.

Included hardware:

The **PAMAS FastPatch 2 GO** system includes its own laptop preloaded with the software application required for analysis. This software programme is designed for membrane analysis and measures a wide variety of parameters, including the measurement of the particles length, width and area.

Key Features include:

- Optimised LED ringlight illumination with polarisation function enabling metallic / non-metallic particle detection.
- Presentation of counts in accordance with a particle length classification. The classification used may be that of a recognized standard, such as ISO 16232, SAE AS4059, ISO 4406 or one defined by the user.
- Comprehensive analysis of the entire membrane filter patch.
- Specific treatment for particulates in contact with the edge of the image.

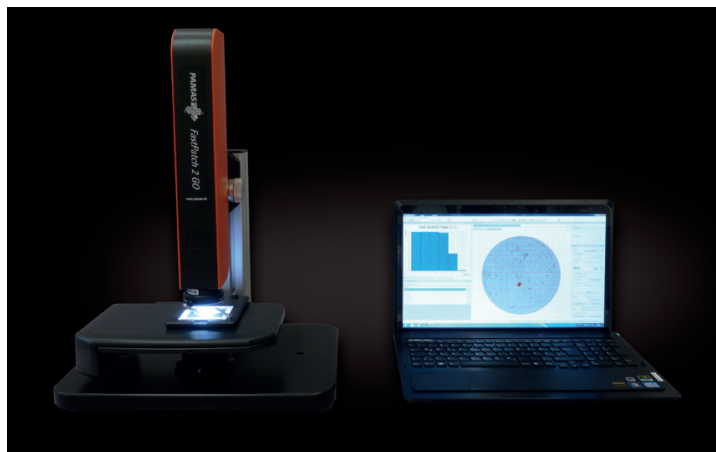
Technical data:

Product Specifications:

- Automated particle count analysis system for filter membranes
- High resolution to see small particles
- Full correct filter patch result for non-uniform particle distribution
- Compensation for background colouration
- Reduced sample preparation time
- Compliance with international standard ISO 4407; reported to SAE AS 4059, NAS 1638, ISO 4406 or ISO 16232 standards

The PAMAS FastPatch 2 GO includes:

- High Resolution, fixed magnification optical microsystem
- Integrated high definition camera
- motorised X/Y staging with joystick
- Optimised LED ringlight illumination with integrated polarising filter. The polarising filter can be switched on or off and enables visualisation of metallic / non-metallic particles.
- Calibration graticule with certification
- High performance laptop pre-configured with the analysis software



The PAMAS FastPatch 2 GO produces quick and accurate analytic results with the length, width and area of each particle recorded. The report of the microscopic analysis includes digital pictures of the membrane filtered samples according to ISO 4407. Results of the same sample are repeatable, regardless of the patch orientation or timescales between analyses.



The LED ringlight provides incidental uniform white illumination to the entire membrane filter patch.



Management System
ISO 9001:2008

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