



## » Heating Microscope with Automatic Image Analysis Upgrade EMI III

## » Product description

One essential component of **Hesse Instruments**' heating microscope is the **heating microscope software EMI III**, which includes the following functions:

- ... Preparing, executing and evaluating measurements
- ... Documenting data and measurement results
- ... Managing measurements and user accounts

Compared to the previous software EMI 2, EMI III offers a higher performance and a wider scope of functions. The differences are given in detail on the next page of this brochure.

## » Scope of delivery

- ... Heating microscope software EMI III
- ... Network-compatible CCD camera
- ... Pre-configured measuring station computer with Windows operating system
- ... New temperature acquisition device for the existing furnace control

Differences at a glance			EMI III
Preparation of measurements	Support for adjusting the camera image Definable image section for the image analysis Utilities such as a grid or specimen silhouettes	× × ×	<b>✓ ✓ ✓</b>
	Storage of measurement settings and heating profiles as methods	×	✓
Execution of measurements	Automatic control of the furnace	✓	✓
	Real-time evaluation and display of results	✓	✓
measurements	Interactive displays of measurement results	×	✓
	Input of extensive notes possible	×	✓
	Recording of all evaluation changes	×	✓
	Advanced functions for diagrams and images: Zoom and image details Results markers on graphs	×	✓
	Storage of generated diagrams	×	✓
Management of measurements	Enhanced data base	×	✓
	Enhanced archiving function	×	✓
	Enhanced export function	×	✓
Automatic generation of measurement reports	Short measurement report	✓	✓
	Long measurement report User-defined content Insertion of notes, diagrams, etc Insertion of user data (i.e. logo) Cover sheet with text fields	×	✓
Advanced configuration options	Evaluation parameters	×	✓
	Users and user rights	×	✓
	User data Logo Address	×	✓
Expansion with modules		×	✓

## Advantages of EMI III compared with EMI 2

Advantages of Emi in compared with Emi 2				
Enhancement of the performance				
Programmed for current operation systems (Windows 7 and higher, 32BIT and 64BIT)	» EMI III can access up-to-date hardware, enhancing its performance			
Use of a network compatible CCD-camera	<ul> <li>» Quick and digital transfer of the recorded images to the computer (1000 MBit / s)</li> <li>» No conversion loss</li> <li>» Increase of the image quality</li> </ul>			
Development of new evaluation algorithms	» Finer resolution of the gray-scale analysis during the automatic image analysis			
Increase in efficiency				
Structured and clearly ar- ranged user interface	<ul> <li>Easy and intuitive operation of the software during setup of the camera image and preparation, execution and evaluation of measurements</li> <li>Short training periods for new users</li> <li>Clear display of measurements and results</li> </ul>			
Various editing options	<ul> <li>» Bigger scope of functions than in EMI 2</li> <li>» Evaluation via linked and interactive diagrams, tables and images</li> <li>» Optimal and quick evaluation of measurements</li> <li>» User-defined design of diagrams and measurement reports</li> <li>» Automatic generation of measurement reports possible</li> </ul>			
Control and flexibility				
Configuration of evaluation parameters	<ul> <li>Direct influence on the automatic image analysis</li> <li>Adaption of the parameters to diverse and non-typical measurement concepts possible</li> </ul>			

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