Leica Image Manager

The Professional Image Management System
The need for professional, customer-specific digital data management solutions in all fields of microscopic and macroscopic applications is continuously growing – particularly in view of the increasing use of digital cameras. To meet this need, Leica Microsystems introduces a strongly improved version of Image Manager, a versatile image management application for the acquisition, processing, measurement and output of images. Furthermore, IM provides professional facilities for data exchange and backup including a wide variety of documentation and presentation tools. The clear, user-configurable interface lets you integrate the individual logical processes within one single system, making process control easier, quicker and more reliable. It is easy to adopt the structure and hierarchy of your Image Manager archive to the detailed workflow in your laboratory or working environment.

Modular Technology

The modular concept of Leica Image Manager software enables the user to specify a system that is tailored for a specific purpose. A total system can be designed to make optimum, economical use of existing hardware and software resources.

A Total Solution from Standard to the Most Critical Requirements

Leica is a company with many years experience in the design and manufacturing of innovative products for industry and science and is ideally placed to provide flexible solutions to handle just about any digital image management task. Used with a microscope, stereomicroscope or macroscope, and a wide range of supported digital and analogue video cameras, Leica provides a complete imaging package for critical and routine professional applications.
Leica IM500 and Leica IM1000 are the two archiving applications available to manage data and images in user defined archive structures. Their comprehensive capabilities can be extended by a large number of functional modules to tailor the system exactly to individual customer requirements.

**Leica IM500**

Leica IM500 is a professional high performance software solution, which enables the user to create archive structures that fit exactly to each individual image, data and document archiving requirements. An arbitrary number of archive hierarchy levels can be defined to reflect the laboratory workflow or the structural needs of an organisation.

Various field types can be linked to an image such as text, time and date and those containing microscope settings or other relevant data from the input source. This allows intuitive search functions to be used so that images can be located and retrieved quickly and easily. Furthermore, images can be displayed in a gallery or with related data for searching purposes.

Based on the innovative Microsoft MSDE database concept Leica IM500 can handle an unlimited number of images and related data on a local workstation offering more than 25 image file formats for storage and exportation. The use of a MSDE database leads to high system stability and increased security. Additionally, image sources are automatically configured during the software installation and immediately available. This includes the input of images from clipboard, file or the Leica DFC Twain camera interface and scanners. Leica IM500 operates under Microsoft Windows 2000 or XP.

For publishing and documentation purposes, MS Word and PowerPoint are implemented alongside a document manager that allows the storage and handling of all sorts of documents in the same way as images and other data.

**Main Features:**

- A user definable archiving structure with multi hierarchical layouts and a wide variety of field types
- Image, gallery, data and light box views
- Easy to use and intuitive search functions
- Comprehensive communication with external applications
- Links to MS Word and PowerPoint
- Additional modules to further increase functionality
- High stability and security

**Leica IM1000**

Leica IM1000 is a high-end image and data management software solution, which offers the full functionality of Leica IM500 to a large number of users via a central server. With special networking options, all requirements from small local networks to large company wide systems can be linked. The built in Keyword Module allows the use of predefined field contents which simplifies data inputting and search facilities and can be highly effective, especially in a multi-user environment. Leica IM1000 supports SQL and Oracle databases.
Leica Image Manager brings efficiency and economy to the fields of scientific photography and microscopy as well as to industrial image recording and processing. Digital data can be analysed, modified, evaluated and integrated into reports quickly and easily.

**Leica DFC Camera Line**

Designed using the latest digital technology, the Leica DFC camera line is characterised by performance and flexibility and meets even the toughest demands on digital photography and documentation in the field of microscopy.

Whether you are using the universal beginners version or a high-end solution, with up to 12 megapixels and 600 seconds exposure time, Leica digital cameras offer a modular product concept ideally suited for producing high quality digital images for the Image Manager. Leica DFC Twain supports all cameras and is included in both Leica IM500 and Leica IM1000.

**Leica IM DM Microscope Control Module**

The Leica IM DM Microscope Control Module saves the current parameters of the connected automated Leica DM series microscope during image capture. The parameter values are automatically stored in system fields while images are being recorded. The fields are assigned to the image when generating the database and may refer to any values, such as magnification, applied fluorescence filter, X/Y stage and focal position. When used with the Leica IM Measurement or Image Calibration Modules, this module automates calibration during image capture, simplifies the entire operation and ensures quality. The saved values allow you to record images from sources that share exactly reproducible properties. Furthermore, during report generation, the recording conditions can be applied easily and without error.

When using the most recent series of automated Leica DM microscopes (DM3000-6000, DMi3000-6000) not only can all available coded or motorized microscope settings be stored but also recalled so that the same conditions used to grab an image can be reset. When used together with the store and recall functions of the Leica DFC cameras, microscopy imaging can be fully reproduced. This reduces the time consuming task of fine-tuning both the camera and microscope and dramatically improves sample throughput and productivity especially in multi-user environments.

The powerful auto calibration option automates all microscope and DFC camera parameters, which have an influence on magnification, such as image resolution and binning modes. This minimizes user influence on calibrating the system when required and leads to a high level of operation security. In conjunction with motorized motor stages and the automated mosaic and Motorized Multi Focus Module, the microscope stage control can be automated for multi image acquisition.

**Main Features:**

- Reading the current available microscope and camera settings
- Archiving settings with images
- Recording images from sources that share exactly reproducible properties
- Reliably copying values for generating reports
- Restore microscope and camera settings for reproducible microscopy
- Option for fully automated system calibration
The Leica IM FSC Comparison Macroscope Control Module

The Leica IM FSC Comparison Macroscope Control Module allows full access to all imaging parameters of this macroscope including illumination, stage co-ordinates, bridge position and imaging mode. Together with the automated mosaic and Motorised MultiFocus Module the macroscope stage can be controlled to perform automated multi image acquisition.

The Leica IM Stereomicroscope/Macroscope Module

This module allows direct access to all coded and motorised functions of the automated Leica Stereomicroscopes and Macrosopes which can be stored together with an image. It also includes the zoom position for accurate and reliable measurements even when used with zoom optics. When using fluorescence imaging the filter wheel positions can be stored and restored for reproducible imaging.

The Leica IM Motor Focus Module

This module provides the control of a motorized motor focus drive to allow the automatic generation of multi-focus images with Leica Stereomicroscopes or Macrosopes together with the Leica IM MultiFocus Motorised Module.

The Leica IM Matrox Meteor II Driver Software Module

The Leica IM Matrox Meteor II Driver Software Module provides live image display, capture and storage of images from a wide variety of sources such as video Y/C and RGB video signals when used together with the appropriate frame grabber hardware. The frame grabber hardware is not included in this module. The rapid transfer rate of up to 25 pictures per second provides optimum control of the live image.

The Leica IM Leutron Frame Grabber Driver Software Module

The Leica IM Leutron Frame Grabber Driver Software Module is the most cost-effective single monitor solution for displaying live images and capturing and storing images from Y/C sources when used together with the appropriate frame grabber hardware. The frame grabber hardware is not included in this module. The fast transfer rate of 25 pictures per second provides optimum control of the live image. The simple to operate, universal imaging source controller, supports the frame grabber.
Image Acquisition Modules

Leica IM Manual Multi Focus Module
The Leica IM Manual Multi Focus Module makes it possible to create images with optimum depth of focus from a combination of images where the definition of focus varies across the area. This function is of particular interest in the field of photomicrography in cases where imaging of topographic samples is impossible with one image, due to the limited depth of focus. By taking a series of images at different z-levels, each of which contains a section of the object at maximum focus, a composite image can be generated that uses only the sharpest portions of each individual image.

Main Features:
• Pictures may be taken with any installed imaging source
• Final image generation is possible from a number of single images
• An easy to use dialog for imaging topographic samples

Leica IM Multi Focus Motorised Module
The Leica IM Multi Focus Motorised Module incorporates the same functions as the manual Leica IM Multi Focus Module but automatically grabs the images by moving the z-position of either the microscope or the microscope stage. The optimised z-step size is recommended by the system using the aperture values of the final magnification lens. This option needs a motorised focus when using Leica DM Microscopes or the Motorised Focus Module when using Stereo-microscopes or Macrosopes.

Leica IM Image Assembly Module
The Leica IM Image Assembly Module allows the creation of a complete composite image from several individual images in the archive. This function is particularly helpful when a microscopic object needs to be imaged with an area that is larger than the single field of view offered by the microscope. The object is photographed by moving the X/Y co-ordinates to produce a series of overlapping images. These can be reassembled using this module to produce a single composite image.

Leica IM X/Y Stage Mosaic Module
The Leica IM X/Y Stage Mosaic Module allows automatic stitching of an arbitrary number of images in a rectangular format to create large, high resolution overview images. This option needs a motorised microscope stage or can be used together with the Leica IM FSC Comparison Macroscope.
**Leica IM Movie Recorder/Movie Player Modules**

The Leica IM Movie Recorder/Movie Player Modules provide simple methods of acquiring a moving specimen like a growing cell. The results can be stored in movie format or in a time-lapse sequence separately in the database. The images can be stored in standard Microsoft AVI format in either the computer RAM or on hard disk so that a movie length is not constricted. Furthermore, movies can be reviewed through the gallery. The time-lapse facility allows pictures to be taken at different time intervals to determine processes, such as movement under the microscope. Image capture is handled by Leica IM and the time-lapse images can be processed by any supported imaging source. Various easy to use functions make this module a perfect choice for all motion analysis applications.

**Main Features:**
- Real time movie capturing
- Simple operation with easy-to-read remaining time display
- Can be combined with image processing
- Support for all registered image sources
- Virtually unlimited movie lengths using hard disk storage
- Gallery for image review and selection
- Easy to use with clear time remaining display in time-lapse applications

**Leica IM Image Overlay Module**

The Leica IM Image Overlay Module allows the user to feed in and overlay up to eight black and white or colour images with automatic or manual colour mapping. This module is designed for use primarily in fluorescent photography using a variety of colour filters and fluorochromes. Colours can be freely assigned or allocated according to a preset specification. Colour intensity is also individually adjustable.

**Main Features:**
- Ideal for multiple fluorescent pictures in plant biology, pharmacology, cell biology, genetics, viviology (human and animal physiology) and pharmaceutical research
- Individual colour selection and intensity correction
- Intuitive operation with visual control of results
Archiving

**Leica IM Picture Manager Module**

The Leica IM Picture Manager Module enables you to transfer archived images to other media. It also enables you to relocate, copy, email, extract, export and manipulate image data. This module simplifies the compilation of archives for preservation, using MO, DVD or CD jukeboxes. Furthermore, it enables you to send images as email attachments in any size and quality you like. The extraction facility allows you to transfer image material from the archive onto a notebook or similar device, for use in external presentations.

**Main Features:**

- Central image management with intuitive user interface
- Relocation of data to long-term archive using the jukebox principle
- Direct sending of images via email

**Leica IM Keyword Module For IM500**

The Leica IM Keyword Module allows field contents to be predefined for easier data input and searching options especially in a multi-user environment. The field contents can be modified and stored to enable additional data. The Keyword Module is included in the Leica IM1000 software package.
Image Processing and Analysis Modules

Leica IM Image Comparison Module
The Leica IM Image Comparison Module lets you make direct visual comparisons of a number of individual images from the archive. This module provides a transparent overlay facility for each of the different viewing methods, with manual or automatic toggling. Images can be arranged side by side or vertically in line. Transparent reference images and images arranged side by side can be saved as new images. The Leica IM Image Comparison Module is particularly suitable for quality or authenticity control such as criminology or documentation.

- Easy comparison of several images at once
- 4 methods: transparent, toggled, side by side/vertically in line, separation line
- Convenient storing of transparent overlay images

Leica IM Image Processing Module
The Leica IM Image Processing Module for microscopy allows automatic and interactive image manipulation. In interactive mode, images can be modified in real time using all available functions. Function sequences may be saved as Macros and can be executed manually or automatically by assigning them directly to an image source. Image acquisition with automatic image enhancement and correction is performed with a key stroke.

Main Features:
- Intuitive, easy-to-handle user interface
- Function execution in real time
- Interactive macro creation with full execution control
- Automatic macro execution at acquisition time
Leica IM Measurement
and Annotation Modules

Leica IM Measurement Module
The Leica IM Measurement Module with text editor, is a tool for the interactive indexing, captioning and marking of images. The image data is not altered as measurements and texts are overlayed on top of the image. Images are individually numbered and captioned and easily customised through specifying size, colour and style of the type face to be used. Manual or automatic calibration simplifies accurate indexing. Connections for the Leica DM series microscopes allow the automatic readout of actual magnification levels. A comprehensive range of measurement options is provided including number counting, vector distances, line length, areas, angles, circles, multiple line distances, layer thickness options and special methods to measure welding zones.

Main Features:
• Rapid interactive measurements with intuitive and simple tools
• Professional display of measurements and illustrations within the image
• Automatic calibration during image acquisition
• Easy to export measurement results into an Excel table
• Annotation Module included

Leica IM Basic Measurement Module
The Leica IM Basic Measurement Module includes most of the functionality of the Measurement Module, but without the option of altering image measurements which are instead burned directly onto the image. The functionality for annotations and calibrations is identical to that offered in the Measurement Module. The Leica IM modules, Layer Thickness and Hardness Testing, are not compatible with this module.

Leica IM Annotation Module
The Leica IM Annotation Module allows text, arrows, graphics and colours to be added to the archive image.

* Cannot be combined with the Leica IM Measurement, Basic Measurement or Image Calibration Modules as a separate component.

Leica IM Image Calibration Module
The Leica IM Image Calibration Module allows both manual and automatic calibration and simplifies object evaluation by displaying an overlay reference bar. Connections to various types of microscopes allow the active magnification to be read automatically*. For each image, a calibration can be stored in the archive. The calibration, which is either determined directly from the image content (e.g. scale), selected from a list of user-defined calibration data, or determined from image source (image size, X/Y ratio) and objective magnification, is applied automatically. The one-key QuickZoom function magnifies the image around the mouse pointer, allowing you to position the image to reference objects at pixel accuracy.

* Available only in combination with the Leica IM Microscope Settings Reader Module. This cannot be combined with the Leica IM Measurement Modules or the Annotation Module.

Main Features:
• Object evaluation with the aid of an overlay reference bar
• Increased productivity with intuitive tools and QuickZoom
• Automatic calibration during image capture
• Calculated calibration with automated Leica DM microscopes and Leica DFC cameras
Material Application Modules

Leica IM Hardness Testing Module
The Leica IM Hardness Testing Module allows the interactive measurement of hardness indentations on archive images or images taken directly from the camera. Using an intuitive interface, this module supports Vickers and Brinell hardness tests to perform either individual measurements or a series of measurements. The ability to create legends as well as online data export to Microsoft Excel, means that it is easier to create documentation which include lists and graphics. The Hardness Testing Module is an accessory for the Measurement Module.

Main Features:
- Hardness measurement using Vickers and Brinell methods
- Several hardness tests can be displayed in one diagram
- Calculation of median values, standard deviation, etc. possible

Leica IM Grain Size Module
The Leica IM Grain Size Module allows visual comparison of a specimen image with reference chart images provided by the client (e.g. grain size chart DIN or ASTM). From this a standard chart index can be indicated. The reference chart selected is displayed as a gallery to the left of the original image. It can be enlarged or reduced as desired, with dynamic correction of image proportions and an index chart produced. The Grain Size Module needs calibrated images provided by the Calibration Module or one of the Measurement Modules.

Main Features:
- Direct visual comparison using size adjustment
- Customer reference charts can be defined and saved
- Inclusion of pre-defined DIN and ASTM standard reference charts
- Enables comparison of image series with any selected image

Leica IM Layer Thickness Measurements Module
The Leica IM Layer Thickness Measurements Module provides interactive measuring and the automatic calculation of layer thickness on all your archive images. With its intuitive and ergonomic operation, this module supports thickness measurements of single or multiple layers of materials prepared by a rotating sphere on the sample surface. The Leica IM Measurement Module is a pre-requisite for the Layer Thickness Measurement Module.

Main Features:
- Fast, intuitive multiple layer measurements
- Support of all common measuring procedures
- Length measurement with graphical annotation
Leica IM Report Modules

Leica IM Basic Word Report Module
The Leica IM Basic Word Report Module allows automated Microsoft Word 2000/XP report generation for image and text data using Image Manager archives. Images and related text at any resolution can be inserted into the current text document either directly or using pre-defined templates. Thumbnail images can be inserted efficiently. Printing or exporting can be performed on the local PC or on the network printer server using definable image resolutions.

Main Features:
- Images and data can be displayed in the desired resolution
- Thumbnail images allow fast insertion and printing times
- The export function allows a choice of image resolution

Leica IM Word Report Module
The Leica IM Word Report Module includes all functions of the Basic Word Report Module but also provides a zoom function so that images inside a word document can be displayed in overview or high detail format. A search function allows images to be found in any IM archive directly from the MS Word user interface.

Leica IM MS PowerPoint Generator Module
The Leica IM MS PowerPoint Generator Module lets you automatically generate MS PowerPoint 97/2000 presentations using the image and text data available in your Image Manager archive. Generation of images and their archive data, are integrated at user-specified resolutions into user-defined templates or directly into the current slide.

Main Features:
- Automated generation of presentations
- Simple manual generation of presentations using drag & drop
- Both individual images and image series may be inserted
- User-defined slide templates available
- Quick filter function for fast localisation of presentation images in the archive
- Export function with selectable image resolution
- Zoom function to display an overview image and detail magnification on the same slide including recalibration of the zoomed image.
Networking Options with Leica IM1000

**Report Server Option**

The Report Server Option prints Microsoft Word reports, which have been created on Image Manager workstations using a thumbnail technique, to a network printer. The main advantage of this option is that the image structures and any edits for printing remain fully detached from the report while it is generated in Microsoft Word on a local station. This makes it possible to generate reports containing dozens of high-resolution images quickly and easily.

**Main Features:**
- Centralised report printing minimizes queuing times and increases general efficiency
- Minimizes network loads by reducing data transfer through thumbnail images
- No hardware upgrades required at workstations
- Optimum grayscale conversion for high-quality printing

**InfoServer Option**

The InfoServer Option enables you to administer any number of different Leica IM1000 licenses on a network. These can be installed on specific computers or a number of different computers. Through the concurrent user concept, only a specific number of users are allowed access at any one time.

**Option Viewer/Extended Viewer**

The Leica IM1000 Viewer offers a full range of functions for searching and viewing image and data material with write protection activated. As a result, Leica IM1000 Viewer can be installed in networks as an inexpensive option to access image material for many employees or used on secondary and external stations for viewing data or presentations. Thanks to the write protection on all data, no corresponding access restrictions are necessary. Leica IM1000 Extended Viewer also supports all printing functions of IM.

**Main Features:**
- Full range of display and search functions
- Write protection on image and field data prevents data loss and misuse
- Extended viewer supports all printing functions
- Low price enables broad access of many employees to the archives
## Modules for any Application

### Basic Licenses

- **Leica IM500 Image Archiving Software for Local Workstations – 12447019**
  Professional high performance software for the archiving of images, data and documents on local workstations.

- **Leica IM1000 Image Archiving Software for Networks – 12446401**
  Professional high performance software for the archiving of images, data and documents on networks.

### Leica IM500/IM1000

- **Leica IM DM Microscope Control Module - 12730029**
  Allows automated parameters of the Leica DM microscopes to be stored and recalled.

- **Leica IM FSC Comparison Macroscopes Control Module - 12730055**
  Allows full access to all imaging parameters of the FSC Comparison Macroscopes.

- **Leica IM Stereomicroscope/Macroscopes Module - 12730003**
  Allows direct read in of all motorized functions of the automated Leica Stereomicroscopes and Macroscopes.

- **Leica IM Motor Focus Module - 12730002**
  Provides control of a motorized motor focus drive to allow automatic generation of multi-focus images.

- **Leica IM Matrox Meteor II Driver Software Module - 12447033**
  Provides live image display, capture and storage from sources such as video YC and RGB signals.

- **Leica IM Leutron Frame Grabber Driver Software Module - 12447018**
  A cost-effective single monitor solution for displaying live images and capturing and storing images from Y/C sources.

- **Leica IM Manual Multi Focus Module - 12446426**
  Combines individual images into a composite image. Multi Focus can combine several pictures with different degrees of definition.

- **Leica IM Multi Focus Motorized Module - 12730001**
  Automatically grabs images by moving the z position of either the microscope or the microscope stage.

- **Leica IM Image Assembly Module - 12446425**
  Interactive image assembly with full image view. Single pictures can be arranged freehand using the image viewer. All image formats supported.

- **Leica IM X/Y Stage Mosaic Module - 12730056**
  Allows automatic stitching of an arbitrary number of images to create high resolution overview images.

- **Leica IM Movie Recorder/Movie Player Module – 12447196/12447197**
  Allows application imaging to be captured at specific time intervals plus creating and saving video sequences at full video resolution.

- **Leica IM Image Overlay Module - 12447010**
  Combines individual images into a composite image. Ideal for fluorescent and b/w images. Choice of true colour and manual colour control.
• **Leica IM Picture Manager Module - 12447021**
  For transferring images to other media, backup, e-mail, extraction.

• **Leica IM Keyword Module For IM500 - 12446406**
  With the use of predefined field contents, data entry and search functions are greatly simplified

• **Leica IM Image Comparison Module - 12730038**
  Facility for comparing two or more images. Various tools are available to compare images in a number of different ways.

• **Leica IM Image Processing Module - 12446428**
  Interactive or macro-controlled manipulation of images. Specific macros can be assigned to any image source.

• **Leica IM Image Measurement Module - 12446424**
  Interactive measurement and captioning on a drawing layer with automatic calibration, data export to Excel

• **Leica IM Basic Measurement Module - 12447198**
  Quick and easy measurements can be performed which are burned directly on to the image.

• **Leica IM Annotation Module - 12447199**
  For adding text or graphics to the image

• **Leica IM Image Calibration Module - 12447146**
  Manual and automatic calibration and displaying an overlay reference bar.

• **Leica IM Hardness Testing Module - 12447232 (requires 12446424)**
  Allows interactive measurements of hardness indentations on archived images or those taken directly from the camera.

• **Leica IM Grain Size Module - 12447012**
  Allows visual comparison of a specimen image with reference chart images provided by the client.

• **Leica IM Layer Thickness Measurement Module - 12447231 (requires 12446424)**
  Interactive measuring and automatic calculation of layer thickness on all archived images.

• **Leica IM Basic Word Report Module - 12447202**
  Allows automated Microsoft Word 2000/XP report generation for image and text data.

• **Leica IM Word Report Module - 12446432**
  Provides a zoom function so that images inside a word document can be displayed in overview or high detail format.

• **Leica IM Microsoft PowerPoint Generator Module - 12447143**
  Creating presentations automatically using the image and text data in your IM archive.

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Leica IM1000

• **Leica IM1000 InfoServer Option - 12446404**
  Network license administration.

• **Leica IM1000 Report Server Option - 12447144**
  Printing reports through a print server.

• **Leica IM1000 Option Viewer/ Extended Viewer – 12446402/12446403**
  Searching and observing of images and data (read only)
Leica Microsystems – the brand for outstanding products

Leica Microsystems’ mission is to be the world’s first-choice provider of innovative solutions to our customers’ needs for vision, measurement, lithography and analysis of microstructures.

Leica, the leading brand for microscopes and scientific instruments, developed from five brand names, all with a long tradition: Wild, Leitz, Reichert, Jung and Cambridge Instruments. Yet Leica symbolizes innovation as well as tradition.

Leica Microsystems – an international company with a strong network of customer services

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and representatives of Leica Microsystems in more than 100 countries.

In accordance with the ISO 9001 certificate, Leica Microsystems (Switzerland) Ltd, Business Unit Stereo & Macroscopic Systems has at its disposal a management system that meets the requirements of the international standard for quality management. In addition, production meets the requirements of the international standard ISO 14001 for environmental management.

The companies of the Leica Microsystems Group operate internationally in four business segments, where we rank with the market leaders.

- Microscopy Systems
  Our expertise in microscopy is the basis for all our solutions for visualization, measurement and analysis of microstructures in life sciences and industry. With confocal laser technology and image analysis systems, we provide three-dimensional viewing facilities and offer new solutions for cytogenetics, pathology and materials sciences.

- Specimen Preparation
  We provide comprehensive systems and services for clinical histo- and cytopathology applications, biomedical research and industrial quality assurance. Our product range includes instruments, systems and consumables for tissue infiltration and embedding, microtomes and cryostats as well as automated stainers and coverslippers.

- Medical Equipment
  Innovative technologies in our surgical microscopes offer new therapeutic approaches in microsurgery.

- Semiconductor Equipment
  Our automated, leading-edge measurement and inspection systems and our E-beam lithography systems make us the first choice supplier for semiconductor manufacturers all over the world.

www.leica-microsystems.com/im