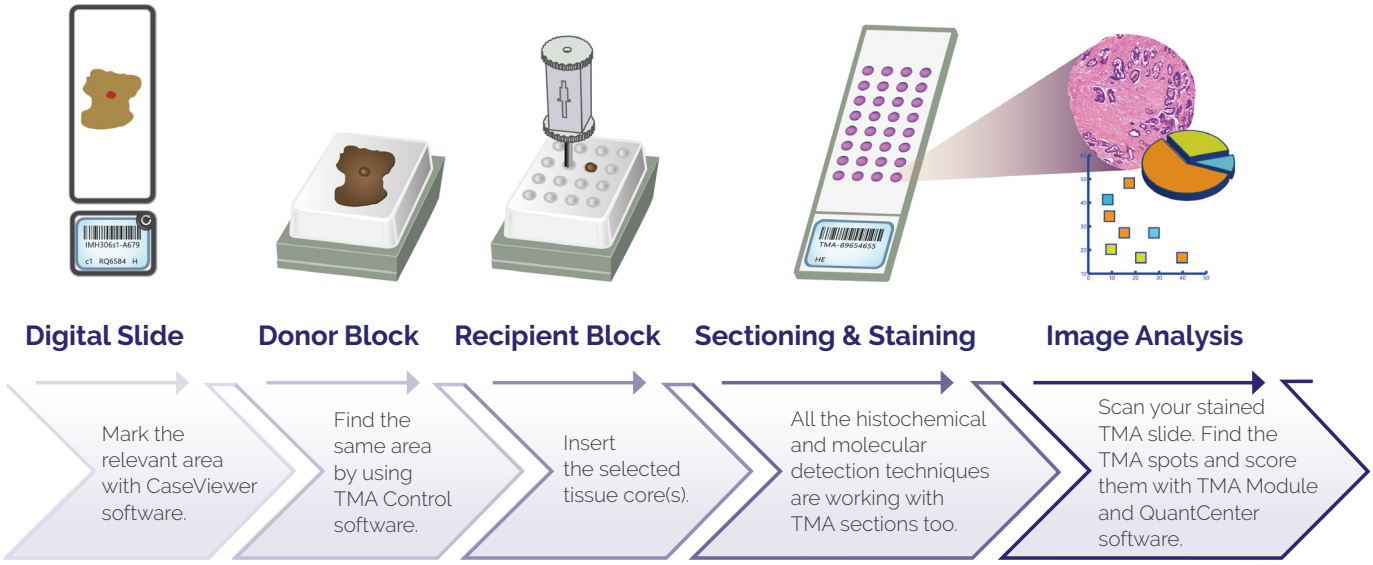
3DHISTECH
THE DIGITAL PATHOLOGY COMPANY

Tissue Microarrayers

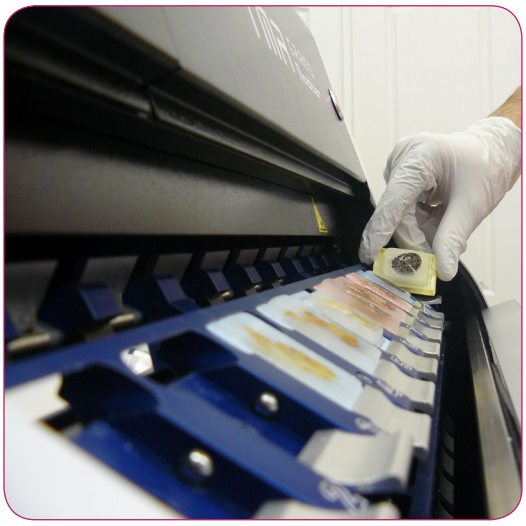
TMA Grand Master™ and TMA Master II™: High-speed, fully automated TMA solutions for all needs

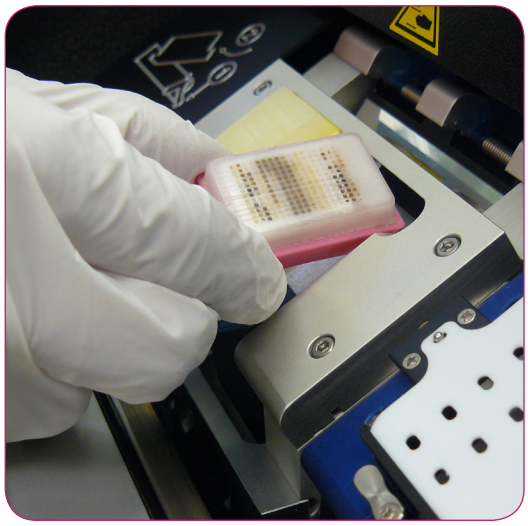
Time saving with improved precision
Reduced workload for lab personnel
Cost saving on reagents and slides

The tissue microarray (TMA) technique can be used as a valuable, high-throughput tool for diagnostic and research purposes: by being able to place up to several hundred different samples into one paraffin block, TMA saves time and costs of tissue preparation, slide preparation and staining. However, due to their low capacity and speed, manual or semi-automatic TMA devices fail to fully utilize the advantages of the TMA technique.



Thanks to their fully automated operation, TMA solutions from 3DHISTECH speed up the laboratory workflow, resulting in cost savings and reduced workload for pharmaceutical companies, research centers, biobanks or routine pathology laboratories of all sizes.





Key Features

Hardware designed for fully automated, high-throughput operation

- Automatic recipient block creation by drilling
- Automatic block height and tool size measurement for precise operation
- More than 500 samples in one block
- Simultaneous loading, imaging, drilling and punching (TMA Grand Master™ only)

Flexible options for a wide range of requirements in research or routine pathology

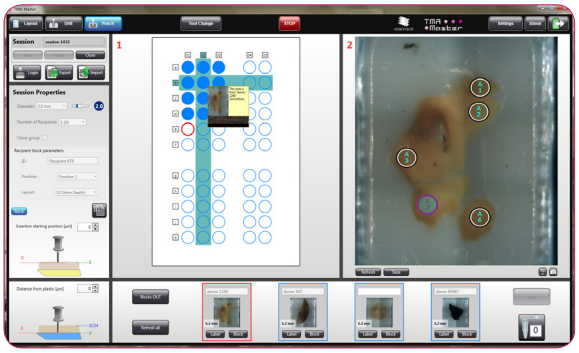
- Multiple core diameter options 0.6, 1, 1.5 and 2 mm
- Software solutions for TMA analysis (optional)
- Extraction of tissue samples in PCR tubes for molecular (gene sequencing, PCR, etc.) analysis (optional)

TMA Control software for TMA block design and creation

- Recipient block layout designer
- 1D and 2D barcode reading (optional)
- Donor block data (donor block ID and/or tissue type, previous diagnostic data, patient data) import
- Use of MRXS digital slide and/or JPEG digital image for more precise sample selection (digital slide overlay functionality)
- Enhanced data security with automatic saving and reloading of project data
- TMA Register
  - TMA data export in various spreadsheet formats (ODS, XLS, XLSX, CSV)
  - Advanced search functionality: search for any TMA- or tissue sample-related data from the TMA Database
  - Registration of TMA slides, for planning and creating TMA block sectioning and TMA slide staining protocols
- Language localization

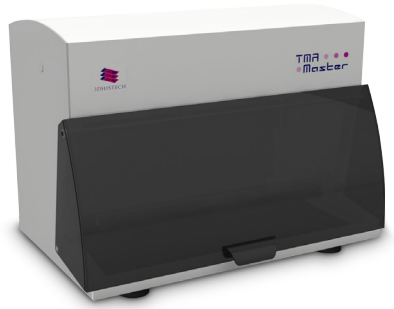
TMA Module software: ideal for TMA spot detection and analysis

- Spot finding
- Automated data binding
- TMA spot gallery
- Manual scoring
- Quantitative immunostain intensity measurement (optional)
- TMA data export in Excel



Key Characteristics

	TMA MASTER II™	TMA GRAND MASTER™
Capacity (blocks)	5 (donor or recipient)	72 (60 donor, 12 recipient)
Speed (cores transferred per hour)	200-250	250-280
Tool sizes (in millimeters)	0.6, 1, 1.5, 2	0.6, 1, 1.5, 2
Max number of cores per TMA block	558 (0.6 mm), 286 (1 mm), 135 (1.5 mm), 84 (2 mm)	
Data export formats	ODS, XLS, XLSX, CSV, XML	
Dimensions (W x D x H in centimeters)	38 x 24 x 29	80 x 50 x 46
Weight (kg)	8	48



Developed and produced by

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