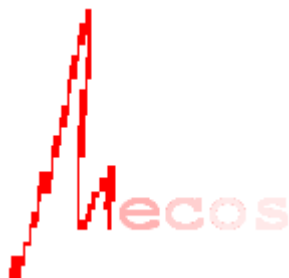


Microscopy combine MECOS-C2
Specification of the Scanner MECO-SCAN for histology, cytology, bioliquids

Microscopy platform	1 M-9 automatic movement, focusing, brightness adjustment; manual lens change	1/4/8/50/200 O-9 automatic movement, focusing, changing resolutions, brightness settings, immersion 1/4/8/50/200 glasses of a batch of loaded slides; Walk-Away mode
Loading of glasses 25x76 mm	1	1/4/8/50/200
Microscopy method	Passing light; reflected light (optional)	
Resolution	Of the μm of the specimen per pixel of shooting - the aperture of the lens: 0.45-0.25; 0.23-0.75; 0.2-0.85 (option); 0.17-1.0 (option) 0.14-1.25 (option)	
Specimen types	on slides stained histological and cytological, including sections, smears, prints, of liquid cytology; wet under the cover glass	
Slide glass map	at a resolution of 3.4 μm automatically	
select the boundaries of the scan area	- interactively on the window of the live video on on the monitor; - automatically on the preset area, including slides of liquid cytology; - interactively on the glass map; - automatically on the glass map by contrasting boundaries of the specimen / by the boundaries of the cover glass	
Results automatically (RA 2) with fixation in the DB	2D/3D panorama of the scanning area (BC 2D/3D) in the MECOS format: - with 2D VS focusing by extrapolation on the scanning area; - with layer-by-layer shooting at the depth of focus of 3D VS with automatic / specified number of 3D layers; - with 3D \rightarrow 2D "extended focus" convolution	
Scanning speed of 2D VS mm^2/sec at resolution:	0.45 up to 10; 0.23 up to 3	0.45 up to 13; 0.23 up to 4
Results 1 opinion (RA 1) by control of RA 2 at the workplace of the control module	VS Browser with navigation on the map, with the movement and scaling of a window of the VS, with an indication of the viewing area in the "fields of view", with fixation of areas of interest on the map for re-viewing, with indication of non-representative areas of the VS, with graphic comments, with the measurement of objects, with the formation of a conclusion on the form; means of forming forms of specified types of analysis	
RA 1 by control RA 2 at the LIS workplace, option	Installation of the VS Browser at the LIS workplace. Formation of RA 2: Export of selected RA 2 from the technique database to the LIS buffer; Interactive analysis of RA 2 of LIS buffer with formation of RA 1; Import of RA 1 from LIS buffer to the technique database	
Accuracy statistics of RA 2 in the formation of RA 1	Collection of statistics on the DB % of non-representative areas of the VS for making a decision on the possibility of using automatic modes of production of RA 2 without quality control RA 2	
Consultation of RA 2 on telemedicine server, option	Ability to export RA 2 with deleted personal data from the database in DZI format to http://mecosvirt.ru cloud site-server with simultaneous placement of up to 5/100 (optional) RA 2 on the secure page of the exporter; Personal account with access password for visitors of the exporter's page; Individual/collective viewing by visitors of RA 2 with the use of built-in RA 2 viewers, with the formation of the conclusion of the RA 1 for the exporter	
Export RA 1 to maintenance server, combine software update, option	Possibility of automatic export of RA 1 with remote personal data from the technique database to the training database on the cloud maintenance server MecosMonitor for training automatic RA 2 analyzers of the technique; Remote updating by the manufacturer of the combine software versions after their upgrades by training	



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Example of form of results of visual analysis of VS
Analysis of scraping of the epithelium of the ectocervicus and endocervicus

Lab ID		Slide ID		Cytopathologist ID		Date	
Sample quality							
Cytological description							
Benign epithelial changes (degerative, reparative, hyperkeratosis, parakeratosis)							
Atypical squamous epithelial cells							
Squamous epithelial cells that do not exclude HCIL							
Squamous cell intraepithelial lesion, degree							
Carcinoma in situ CIS							
Atypical glandular cells of unclear significance							
Endocervic adenocarcinoma							
Flora							
VS	Viewing in "visual fields"		View %		% of non-present area		
Technique of the sample				Virtual slide resolution μm			
Consultation LIS				Telemedicine consultation		Export to maintenance server	

Urine sediment analysis

Lab ID		Drug ID		Physician ID		Date	
Sample quality							
Epithelium Flat							
Epithelium Transitional							
Epithelium renal fat-degenerated							
Leukocytes							
Unalismatic erythrocytes							
Altered red blood cells							
Hyaline cylinders							
Hyaline cylinders with the lining of renal epithelium							
Hyaline cylinders with erythrocyte imposition							
Hyaline cylinders with the imposition of granular masses							
Hyaline cylinders with the imposition of fat droplets							
Round-shaped cylinders							
Granular cylinders							
Epithelial cylinders							
Granular cylinders with the lining of fat-degenerated renal epithelium							
Erythrocyte cylinders							
Fat cylinders							
Amorphous crystals (urates, phosphates)							
Uric acid crystals							
Crystals of acid uric acid ammonium							
Crystals of neutral phosphoric acid lime							
Calcium oxalate crystals							
Triphosphate crystals							
Cholesterol crystals							
Cystine crystals							
Bilirubin crystals							
Hemosiderin crystals							
Blood-iodine crystals							
Crystals of medicinal salts							
Cylindroids							
Mucus							
Spores and/or mycelium of the fungus							
Bacteria							
VS	Viewing in "visual fields"		View %		% of non-present area		
Technique of the sample				Virtual slide resolution μm			
Consultation LIS				Telemedicine consultation		Export to maintenance server	