

## Microscope Slide Scanner

## ATMSS200A

### Features:

- AI algorithm that can automatically detect coverslip surface and rescan the slide at correct focus plane.
- The unique slide holder design and loading/unloading mechanism ensure the lowest risk of sample damage under the condition of unattended operation
- 3-hole motorized objective lens exchanger, supporting Olympus 10x, 20x, and 40x objective lenses
- Continuous loading and unloading mode enable the scanner to run 24x7 without having to break
- Supports emergency slide priority loading and scanning;
- Supports multiple image formats, including Tiled Tiff, SVS, JPG, WebP, and customized formats
- Easily integrated with third-party data management and AI imaging process platforms.

### Application:

It can be used for morphological analysis and pathological analysis of clinical specimens such as chromosomes, blood cells, cervix and mammary glands, as well as observation and research of microorganisms, animals and plants

### Description

Digitization system for cytological samples with a 200-slides-per-batch loading device. It satisfies the needs of an increased laboratory productivity. In addition to the Vision series' features, this model includes automatic scanning of the samples in queue.

The Digital Vision's product-line systems offer the possibility to automatically scan the cytological samples in order to obtain a high resolution digital copy viewable on the pc, so that a copy of each slide could be digitally stored and remote reporting could be possible, in every part of the world, also far away from the sample preparation point.

The monitor display interface allows to analyze the entire sample and to observe it in its whole area moving freely all along its entire surface and zooming in at will (from 1x to 40x) using the pc mouse.

ATMSS200A can flexibly control the Settings of scanning mode, jigsaw mode, focus mode and so on, with higher scanning efficiency, 200 slides can be scanned at a time, continuous sample addition, and anti-debris function. Equipped with excellent optical system, excellent image quality can be obtained. It can be used in large hospitals and third party testing institutions.



## 1. Performance parameters:

Item	Parameter
<b>Hardware</b>	1. imaging equipment: 5M CMOS, 2448x2048
	2. scanning mode: continuous, tiled, sampling
	3. focusing mode: pre-focusing, point-by-point focusing
	4. scan speed: <45s per 15mmx15mm area at 0.27um/pixel
	5. capacity: >200 slides per load, continuous loading
	6. objective lens: up to three lenses— 10X, 20X, and 40X
	7. optional 3-hole motorized lens exchanger
	8. dell workstation, Intel I9 processor, 4 TB hard disk drive, 32G memory, 27-inch display, dual network card
<b>Integrated Scanning and reviewing software</b>	<b>Scanning Functions</b>
	1. automatic slide loading and unloading, and beeping after all slides finished scanning.
	2. automatic label reading
	3. z-stack scanning and multi-layer image fusion.
	4. focus density setting, manual and automatic
	5. scanned slides are stored as either one large stitched image or MxN individual images
	6. image compression ratio from 1% to 100%
	7. output images format in JPG, Tiff, WebP, SVS, or Tiled Tiff
	8. scanning results can be named by time/barcode/QR code/OCR, and can be renamed manually
	9. automatically read common types of barcodes/QR codes
	10. initial focus plane and searching range can be adjusted based on slide thickness
	11. automatic cover glass detection
	12. stop scan button
	13. real-time status monitoring, equipment error code display
	14. automatically rescan when an error detected
	<b>Reviewing Functions</b>
	1. browse images while scanning
	2. quick overview of the scan results list
	3. image browsing function
	4. image navigation function
5. image annotation function	
6. compare multiple images on one screen	
7. cell counting and reporting functions	
<b>User Access Control</b>	

# Datasheet

	1. three levels of account with different privileges
	2. administrator has full access to all functions
	3. operator has access to scan-related functions
	4. viewer can only browse and view scanned images

## Packing List

	Item	Unit	Quantity	Remark
1	200-slide scanner	set	1	/
2	slide holder	piece	50	holds 4 slide
3	sample slide	piece	4	/
4	workstation	set	1	/
5	27" monitor	set	1	/
6	mouse & keyboard	set	1	/
7	HDMI cable	piece	1	/
8	USB cable	piece	1	/
9	network cable	piece	1	/
10	power cord	piece	2	/
11	certificate	copy	1	/
12	user manual	copy	1	USB drive