tech guide	Aiforia	Aurora mScope	BioGenex
GUICE Anatomic and Digital Pathology Instruments and Tools	Helsinki, Finland www.aiforia.com	Montreal, Canada www.aurorainteractive.com	Fremont, CA Tel: 510-824-1400 www.biogenex.com
 What is the brand name of your company's product for anatomic or digital pathology? 	The Aiforia Platform	Aurora mScope	NanoVIP
 What is the latest version of your named product for ana- tomic and digital pathology; what year was this version first released to market? 	Released 2018	The latest version of mScope is 4.2. The first version was released in 2004.	FDA IVD Class I, 2019
3. What is the intended use or primary function of the product?	Primary diagnosis	The product provides a cloud-based, vendor-neutral (agnostic to scanner and Al manufacturer) platform for digital pathology image management and work- flow, with a highly customizable interface, and an ultra-fast image viewer.	Fluorescence in situ hybridiza- tion (FISH), in situ hybridization (ISH), immunohistochemistry, Multiplex immunofluorescence staining - OPAL Protocol & RNA Scope.
4. What types of specimen/ sample does the product employ?	Any digitized 2D image for digital pathol- ogy, including but not limited to WSI, IF, serial sample sections and more.	DICOM images are supported, as well as the proprietary image formats of all major scanner manufacturers.	FFPE blocks, cyto-preparations, cytospins and smear slides.
5. What types of diseases, conditions, or analytes does the product detect?	All (Aiforia supports the analysis of any 2D image from any field)	Pathologists can use Aurora mScope to detect any disease they would through traditional pathology processes.	Mapping genetic abnormalities in tissue and cells, spatialtemporal patterns of protein-biomarkers, multi-omics with spatial pro- teomics & genomics
6. What level of magnification can be achieved; what level of image resolution is captured?	All levels of magnification and resolution (depending on the user's device can be achieved with Aiforia's software)	Any magnification level supported by the chosen scanner is supported in mScope.	N/A
7. Under ideal conditions, what is the time to first result; how are the test results made available?	Aiforia automates time-consuminng image analysis tasks from 45 minutes per section with traditional methods to 5 seconds with Aiforia	Digital slides are available within mScope within minutes of the slide being output by the WSI scanner.	Execution of protocol in 2.5 hours to 24 hours with display device. Support for printing or LIMS.
8. What are the product's max- imum capacity and throughput under ideal conditions?	There is no maximum capacity. An unlimited number of slides or images can be stored and analyzed in the Aiforia Platform.	Maximum capacity is limited only by available server storage space. Aurora mScope can support 100s of simultane- ous users.	Maximum 10 slides with STAT or Continuous protocols.
9. Briefly describe any auto- mation or connectivity fea- tures or options that pertain to the product.	The Aiforia Platform offers cloud-based software and tools for image-agnostic slide management and sharing as well as deep learrning Al-powered analysis, which automates time-consuming and manual applications such as neuron body count- ing, tumor grading, and more.	Automated digital slide ingestion, auto- matic assignment of cases to pathologist (or group), automatic case prioritization (based on workflow rules), integration with LIS and health record systems.	Fully automated slide staining including hybridization and stringency wash.
10. What is the typical training time for the product?	This varies according to the complexity of analysis the customer wishes to perform. Onboarding typically takes a few weeks and is done remotely at the customer's convenience.	Online training is typically done over 2-3 hours.	1-3 days.
11. What types of technical support are available?	Each customer is assigned their own cus- tomer support scientist from Aiforia's team of experts, as well as: phone & email sup- port, technical & user manuals. The Aiforia Platform is cloud-based therefore real-time support can be provided effectively and remotely.	Online support portal is available 24/7. Since the product is cloud-based, support is remote.	User manual, onsite, phone, and email support, product demo, training and protocol optimiza- tion.
12. What capabilities, fea- tures, or accessories distin- guish this product from others on the market?	The Aiforia Platform increases the speed, accuracy, and consistency of image analysis across any field in pathology. The Platform consists of a patented active learning tool and access to deep-learning Al through an intuitive tool that requires only an internet connection and the user's own domain knowledge to begin training Al models.	The vendor-neutral aspect of the product alleviates the need to train users on mul- tiple software platforms. Aurora mScope is cloud-based, has virtual multi-headed microscope and other collaboration/ consultation capabilities, contains an ultra-fast viewer with many types of tools and annotations, and supports highly cus- tomizable workflow.	Fully automated only benchtop system for FISH technique. Accurate temperature control over individual slides. Runs Spatial proteomics and genom- ics inclusive of OPAL protocol, and RNA Scope.

BioView

Rehovot, Israel

978-670-4741

www.bioview.com

General Data Healthcare

Cincinnati, OH 844-643-1129 www.general-data.com

Gestalt Diagnostics

Spokane, WA 509-492-4912 www.gestaltdiagnostics.com

 What is the brand name of your company's product for anatomic or digital pathology? 	Duet	LaserTrack Cassette Printers	PathFlow
2. What is the latest version of your named product for ana- tomic and digital pathology; what year was this version first released to market?	Latest version 3.8.1. Released in 2017.	LaserTrack PH1, PH6, PH8, JBY1, PH1 released in 2017	V3, released in 2020
3. What is the intended use or primary function of the product?	Diagnosis and reporting.	Diagnostics	Primary diagnosis, remote consulta- tions, tumor boards, research, and education
4. What types of specimen/ sample does the product employ?	Formalin fixed paraffin embedded, touch-preps and cell suspension	Tissue & biopsy specimen	Whole slide images
5. What types of diseases, conditions, or analytes does the product detect?	Detection and diagnosis of cancer and genetic aberrations.	Cancer	N/A
6. What level of magnification can be achieved; what level of image resolution is captured?	100x	Positive patient identification	Any any level of magnification can be supported, as defined by scanner.
7. Under ideal conditions, what is the time to first result; how are the test results made available?	Scan may last several minutes. Results are readily available upon scan comple- tion to be reviewed and analyzed on satelite stations or via Bioview's FDA- cleared & HIPAA web platform.	Prints cassettes every 3-12 seconds, depending on how much is being printed	Dependent upon the pathologist; diagnosis/findings are reported through final report and distributed via PathFlow or back to the LIS
8. What are the product's max- imum capacity and throughput under ideal conditions?	System maximum capacity of 120 slides at a single batch. Supports unlimited and continious loading and scanning of samples.	PH1: up to 320 cassettes; PH6: up to 480 cassettes; PH8: up to 480 cas- settes; JBY1: up to 70 each magazine, 1-5 magazines	Unlimited scalability in number of cases, pathologist worklists, and whole slide images associated with cases.
9. Briefly describe any auto- mation or connectivity fea- tures or options that pertain to the product.	BioView's platform offers advanced capabilities in FISH analysis for cancer and genetic abnormalities, detection of circulating tumor cells, whole slide imaging of histological sections, digital matching of H&E/IHC with FISH and computer-aided quantitative IHC scor- ing.	LaserTrack cassette printers use laser printing technology that consistently produces permanent, crisp text and 2D barcodes and delivers nearly perfect scan rates.	PathFlow's universal viewer and image management system allows for tight integration with any scanner vendor, laboratory information system, elec- tronic medical record, etc.
10. What is the typical training time for the product?	Varies per test portfolio. A typical on- site initial installation and training lasts about 1 week. BioView closely works with the lab through onboarding and validation.	1-2 hours	3 - 3 1/2 days
11. What types of technical support are available?	Remote & On-site support	Software and technical support, depot and on-site service, nationwide repair, and customized service plans	5x9, 5x12, 24/7
12. What capabilities, fea- tures, or accessories distin- guish this product from others on the market?	DUET offers whole slide imaging, FISH, tissue matching, computer-aided quantitative IHC scoring and detection of CTCs. Our users leverage offline analysis and Web-based applications to collaborate with their colleagues, work off-site and explore new business opportunities.	PH1 is capable of printing as fast as one cassette every 3 seconds. PH6 meets high-volume needs without manual changing of magazines; PH6 Sorter has built-in cassette manage- ment system; PH8 can print on 1, 2, or 3 sides of a cassette, PH8 Duo chute cassette management system moves cassettes to right or left for workflow effiency.	PathFlow is a full digital pathology platform, providing a single, unified workflow for both glass and digital cases. It integrates with any scanner vendor, and multiple simultaneously, and can intergrate seamlessly with any, and multiple, ordering applica- tions.

Anatomic and Digital Pathology Instruments and Tools

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Mikroscan	Milestone Medical Technologies	Motic Digital Pathology	NovoPath
Carlsbad, Calif. (760) 893-8095 www.mikroscan.com	Kalamazoo, MI; Bergamo, Italy (866) 995-5300 www.milestonemed.com	San Francisco, CA 1-800-275-3716 moticdigitalpathology.com	Princeton, NJ Dayna Carlin, 734-658-0973 www.novopath.com
Mikroscan L5	MacroPath	MoticEasyScan	NovoPath
Mikroscan L5 live-only remote robotic microscope, March 2017.	MacroPath QX, 2019	MoticEasyScan One, Pro and Infinity; January 2016.	V9; X20 cloud version is to be released in Q1 2021
Supports routine surgical pathology and cytology.	Documentation of gross images.	Whole slide imaging for international consultations, clinical research, tumor boards, and education.	Anatomic pathology and molecular LIS
Biopsy specimens, including fine needle aspiration biopsies, frozen sec- tions, hematoxylin and eosin stained tissues, immunohistochemistry speci- mens, needle core biopsies, smears, and touch-preps.	Gross specimens.	Biopsy specimens including H&E stained tissues, IHC specimens, needle core biopsies, smears, and touch-preps.	N/A
Broad-based use, not disease specific.	Does not detect; used only for docu- mentation.	Applicable for the majority of ana- tomic and clinical pathology use cases, including cancer and other pathological disease.	N/A
Device includes a suite of 5 Olympus objectives of 2x, 4x, 10x, 20x, 40x, with an optional 60x upgrade replacement. Equivalent optical magnification up to 120x.	30x optical zoom digital camera with autoiris and autofocus; resolution up to 20 megapixels.	Device includes 4x, 10x, and 20x objectives providing up to 80X imaging and up to 4K resolution.	N/A
Real-time assessment by a patholo- gist.	Instantaneous picture, audio, and video capturing.	100 scans for a 40x imaging	N/A
Low throughput (2 to 4 slide capacity) and medium throughput option (20- slide autoloader); intended for specific high-value applications where bench space is limited.	N/A	MoticEasyScan One: 1-slide capacity; MoticEasyScan Pro: 6-slide capacity; MoticEasyScan Infinity: 60 & 100- slide capacity	N/A
Autocalibration, auto sample detection, automated focusing and scanning. Accurate color representation software ensures the integrity of the sample is preserved. Can be remotely and securely accessed via any network worldwide.	Touchscreen monitor, autoiris, auto- focus, connectivity via teamviewer, laboratory information system integra- tion, network capabilities, onscreen annotations, audio/video capabilities, foot-pedal controlled, onscreen key- board, various levels of licensing.	Autocalibration, tissue autodetection, LIS integration, z-stack scanning, z-stack snapshot, built-in barcode reader and metadata tagging, direct connectivity to the MotiCloud plat- form and our Digital Slide Server programs	NovoPath can interface with any EHR as well as most standard AP and molecular instruments.
Training and product setup are typi- cally completed in less than 4 hours.	1 day.	Set up and training takes less than three hours	1-2 days per user
Annual warranty and support con- tracts, with the first year included. Mikroscan has a support hotline, onboard system diagnostics, and depot service.	Milestone offers 24/7 technical support with the ability to remotely connect and troubleshoot.	24-7 live support, with remote-con- nected troubleshooting available	Different levels are available including 24/7 support
Full illumination control, wide range of samples, use of non-coverslipped objectives for cytology, small footprint suited for histology vehicles and mobile transport carts between biopsy suites, real-time response for live robotic microscopy, rapid automated scanning for archival and retrieval.	A user-friendly system that provides high-resolution images, video, and audio files; can be mounted to fit any grossing station or used as a stand- alone system; remotely connects to outside facilities for telepathology consultations.	Designed for pathologists. Motic has 30+ years of technical innovation and optics expertise in microscopy: our products are simple to operate, effective and reliable.	Comprehensive specimen tracking; auto-case assignment; Integrated clini- cal, AP & molecular reports; ISO 9001: 2015 certified

	Paige	Primera Technology	Proscia
Anatomic and Digital Pathology Instruments and Tools	New York, NY 646-849-5088 www.paige.ai	Plymouth, MN 763-475-6676 www.primera.com	Philadelphia, PA 215-608-5411 http://proscia.com
 What is the brand name of your company's product for anatomic or digital pathology? 	Digital Pathology	Signature Cassette Printer	Concentriq Dx
2. What is the latest version of your named product for ana- tomic and digital pathology; what year was this version first released to market?	FullFocus	2015	The fourth generation was released in 2021.
3. What is the intended use or primary function of the product?	Digital Slide Viewing for primary diagnosis (CE marked for all digital pathology scanners. FDA cleared with images scanned on the PIPS Ultrafast scanner)	Prints barcodes and patient iden- tification information directly onto cassettes.	Concentriq Dx is CE-marked for primary diagnosis and available for remote use in clinical practice in the United States during the COVID-19 public health emer- gency.
4. What types of specimen/ sample does the product employ?	Digitally scanned slides	N/A	Whole slide images of formalin-fixed, paraffin-embedded specimens.
5. What types of diseases, conditions, or analytes does the product detect?	N/A	N/A	Not disease specific
6. What level of magnification can be achieved; what level of image resolution is captured?	As high as the native image	N/A	2x, 5x, 10x, 20x, 40x, 60x, 100x
 Under ideal conditions, what is the time to first result; how are the test results made available? 	Seconds after the image is uploaded. FullFocus is accessed via a web browser	N/A	N/A
8. What are the product's max- imum capacity and throughput under ideal conditions?	FullFocus displays one case at a time, but has unlimited storage and user capacity as its cloud based-architec- ture scales based on need	Cassettes can be printed at up to 8 per minute.	N/A
9. Briefly describe any auto- mation or connectivity fea- tures or options that pertain to the product.	Viewer designed for fast performance and real-time delivery of AI results. Options include automated case upload, case assignment based on LIS system, native AI system processing and results display	N/A	Automated image upload and scanner integration, automated case assembly, bi-directional laboratory information system integration, automated image analysis integration, support for third- party Al integration, automated tissue microarray de-array.
10. What is the typical training time for the product?	45 minutes	Approximately 1 hour.	30 minutes
11. What types of technical support are available?	Clinical and technical support person- nel available	Phone and email support, Monday through Friday 8 am to 5 pm CST.	Phone and email 5x9 standard; addition- al support levels available upon request.
12. What capabilities, fea- tures, or accessories distin- guish this product from others on the market?	Only FDA-cleared cloud-based viewer on the market. Designed for the deliv- ery of AI results. Offers monitor flex- ibility and requires no on-premises hardware to be deployed	Offers color printing to help reduce inventory and purchasing activity for multiple color cassettes by printing colors directly onto white cassettes. Can print on 35- to 45-degree angles with lid on or off, no adjustments needed.	Enterprise scalability supporting large pathology networks & remote teams; pathologist-centric user experience; seamless AI integration for Proscia & third-party applications; intuitive con- sults and collaboration; best-of-breed interoperability with scanners, image analysis & LIS; digital transformation consulting services to guide your lab

Spot Imaging/Diagnostic Instruments Inc.	Sunquest Information Systems	TRIBUN Health
Sterling Heights, MI 866-604-SPOT www.spotimaging.com	Tucson, AZ 520-570-2000 www.sunquestinfo.com	Paris +33 1 89 20 00 07 www.tribvn-hc.com/fr/ @tribvn-hc.com
Spot/PathSuite	Sunquest CoPathPlus	CaloPix
PathSuite 2.0.83 released 2021; PathCast 1.0.1 released 2020	v7.1, 2020	CaloPix 4.1.0, January 2021
Pathology image acquisition and management with secure telepathology software suite including grossing and microscopy cameras.	Sunquest CoPathPlus goes beyond a traditional anatomic pathology (AP) LIS to offer a highly customizable user experience aimed at satisfy- ing the needs of even the most complex AP lab operations, while also enabling cost and resource savings, interoperability, and improved outcomes. Sunquest CoPathPlus includes Sunquest VUE to enable a streamlined and customizable workflow management for pathologists.	Diagnosis
Primary and frozen section biopsy specimens, frozen section microscopy, cytology fine needle aspiration smears, primary diagnostic slide exami- nation, as well as, non-diagnostic sample tracking and documentation.	Configurable to support common anatomic pathol- ogy sample types such as surgical, cytology, autopsy, etc.	Primary diagnostic slide examination; frozen sec- tion microscopy; formalin-fixed, paraffin-embedded tissue; biopsies.
Used to investigate and document neoplasms.	N/A	Different pathologies and more particularly cancer disease.
Instrument dependent-grossing and microscopy	N/A	4x, 20x, and 40x objectives
Images are captured, autoprocessed, and autoar- chived in 3 to 7 seconds	N/A	N/A
Central image archive is limited only by server storage capacity; image save times are typically between 3 and 12 seconds.	N/A	N/A
Autoannotation, autosave/archive, direct laboratory information system connectivity, autocalibrated images, and telepathology interface.	 Automate ordering tasks with advanced protocols Configure tracking locations & automate routing Automated report generation from templates 	N/A
Less than 30 minutes	Varies by user role. In person and online training available	2 to 3 hours to learn the basic features
Online/phone help desk 9 to 6 EST.	Phone, chat, online knowledgbase and user forum	A helpdesk team is on hand to answer all your que- ries by email or phone. You can also access video tutorials available on our e-learning platform.
Central shared image archive, autoimage copy, autosave by case number, direct laboratory infor- mation system connection, secure telepathology module, streamlined workflow, common interface across each solution. Supports grossing, micros- copy, and sample tracking	 Utilize voice recognition for gross and report dictation Navigate, edit, and compile reports following electronic Cancer Checklists (eCCs) Review and integrate clinical, molecular, and genetic reports into one AP report with PDF merge capabilities Integration with Digital Pathology scanners and software 	Our 360° Digital Pathology suite is fully integrated to the pathologists' workflow around CaloPix IMS. It covers the management, AI analysis and remote sharing of pathology cases, as well as cost-effec- tive storage. Its uniqueness rests in the presence of many integrated modules that constitute a sup- port at every stage of the pathologist's workflow.