AI Pathology Scanner



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- AI imaging analysis
- Local /Server UI/UX for Client and PC
- Scanner system operation (Local machine operation)
- FOV: lab, hospital, research field
- Additional Optical Instrument: SPIM, Raman, QPM



DIHM_Prototype

Digital Inline Holographic Microscopy / Autoscope

▼ DIHM Delta

With a lens-free microscope, it is possible to acquire a wide range of pathological slides at high speed without the restriction of the field of view, and it is possible to construct a low-cost slide hardware due to low mechanical transfer like that of a conventional microscope device.



It is a device that automates the slide transfer device of the existing microscope and scans the entire pathological slide and acquires it as an image. The entire image can be created by shooting high-resolution images up to 40X-100X and stitching unit images. In addition, it can be used as a stand-alone type equipment by applying a touch-type HMI interface, and operation and image acquisition through Labtop is possible through an external USB interface. When acquiring a unit image, focusing and stitching of the entire slide can be performed at the same time by using Knob control in the Z direction and automatic focusing software. (*Microscope is used by attaching the existing microscope)

▼ DIHM Spactro







◀ AUTOscope

It is an upgraded version of the DELTA version, which enables multidimensional image analysis due to the dimensional restoration technique and the mounting of the Raman spectroscopic analyzer. This scanner function is a technology that can replace a microscope for research purposes or an analysis scanner used in hospitals at low cost.

In addition, by automating the entire process, the acquisition and analysis of pathological images can be efficiently processed, and related data can be linked with the DICOM system of the hospital through DB conversion.

● Ongoing Developments

- SPIM
- Raman
- Stage
- UI/UX