



## What is Digital Pathology?

Digital pathology is the process of analyzing, storing, diagnosing, and sharing pathology information digitally. When utilized correctly digital pathology is viable, beneficial, and the future of cancer diagnostics.

Digital pathology has been infamous for its need for expensive, space-occupying equipment and complex integrations. Through advancements in technology, digitizing slides has become more practical. For one, whole slide scanners are smaller, faster, and more affordable. Lumea's digital software can integrate all necessary components into a single device, like a tablet.

## What Are Some Benefits of Digital Pathology?

Digital pathology allows for easy information sharing, case distribution, consultation, and education. Newer developments promise increased efficiency, error reduction, diagnostic assistance, automated quality assurance, optimized molecular testing, and replacement for some special testing.

Lumea has added various technology and software enhancements making digital pathology beneficial and affordable for pathologists, clinicians, labs, and most importantly, patients. Previously, it would have taken weeks for patients to receive results from a biopsy. Now they can receive their diagnosis in less than a week.

## Make Digital Pathology Work For You

With solutions that start at the time of the biopsy, Lumea has digital pathology solutions for the clinic, lab, and pathologist.



### In the Clinic

Lumea's digital pathology begins when a clinician takes a tissue sample. Lumea's software, BxLink, integrates with the clinic EMR to pass patient information onto the lab. Our specimen transport devices replace bottles to retain tissue orientation and improve efficiency, error reduction, and preservation of tissue integrity for the clinic and lab. Additionally, clinicians can set up conditional genetic test ordering and readily order second opinions directly from the system.

Lumea offers RFID tracking that begins in the clinic, vastly improving the chain of custody. Clinicians have visibility into the histology and pathology progress of the biopsy. This enables the clinic to take the guesswork out of the waiting process and equips them with beneficial information for patient communications.

"Lumea's platform translates to a better diagnosis, faster turn-around time, better communication with providers, and improved patient care."

- Dr. Ashley Ross

# What is Digital Pathology?



White Paper



## In the Lab

Scanning glass slides creates an additional step for the lab. Lumea has invented technology and software enhancements that more than compensate for this time. Some are improved tissue handling devices that reduce technical time, retain tissue orientation, reduce tissue fragmentation, and even increase tissue yield on the slide.

New AI technology is also available for use in the lab, with Lumea's grossing camera. This product accurately measures total specimen surface area and reduces grossing time from minutes to seconds.



## In the Pathology Suite

Previously, pathologists would need to wait for shipping or a courier for slides to arrive and analyze the specimens on site. Now pathologists can digitally view, annotate, and create notes for each tissue sample just about anywhere as long as they are in a validated location. These are all stored in one system and are easily shareable. AI software can analyze tissue samples to aid the pathologist in making the correct diagnosis and help illustrate which samples are best for further testing.

Digital pathology also allows for unique viewing options like the simultaneous side-by-side viewing of multiple sections and even automated quality assurance testing (both are currently being developed by Lumea).

Lumea has the latest technology in digital pathology and is continually striving to improve diagnostic processes through the creation of new cancer diagnostic tools. Our technology makes it more affordable, convenient, and safer than ever to adopt digital pathology and improve the quality of patient care.

To learn more about Lumea's Digital Pathology products:  
**844-960-3658 | [www.LumeaDigital.com](http://www.LumeaDigital.com)**

"It's really revolutionized what we've done in the lab... I would never go back."

- Ann Marzucio  
Histotechnologist

"It's the best way to practice pathology by far."

- Dr. Hillel Kahane