

# Aperio GT 450 Release 1.4.1 Patch Notice

Leica Biosystems is always looking for ways to further improve our customers' experience using our products. Our software patches often include new features, but also include improvements based on customer input and our own internal testing. Please make sure to read below for the details of this patch so you can get the best out of your product. Thank you for being a customer of Leica Biosystems.

## New Features Included in the GT 450 Patch

Aperio GT 450 release 1.4.1 now includes the following updates:

- Security patches and updates were applied to third-party off-the-shelf software.
- The scanner operating system was updated to Ubuntu 22.04.
- Stage homing logic updated to always home stage twice for enhanced repeatability.
- The pixel origin (the starting or reference point for the pixel grid in an image grid) for thumbnail and volume images was aligned to match the Total Pixel Matrix Origin Sequence value specified in the DICOM standard.

## Improvements Included in the 1.4.1 Patch

Case #	Description
28526	Implements a default file naming convention for barcodeID when the scanner cannot decode a barcode.
28609	When a barcode is not available on the slide, the file name reads {barcodeID} as txt in the file name instead of blank.
28658	Enables the configuration of the SCU AE (service class user application entity) title in the DICOM file header. The scanner serial number is used for this purpose.
28796	Corrects the situation where Manual Scan, 40x scanning, and Z-Stack scanning/Extended Focus display in English on the console despite a language change.
28689	Corrects the situation where, following a crash of the scanner, macro-focus errors are [inappropriately] displayed for the current slide and remaining slides in the rack.

## Other Notes

We discovered an issue where certain regular expressions (regex) that worked in Ubuntu 20.04 no longer work in Ubuntu 22.04. This is due to a fix in the standard C++ library, implemented in December 2021, which now correctly handles invalid bracket expressions in regex and ensures more accurate regex validation.

For example:

- A regex that worked in Ubuntu 20.04 but not in 22.04: `^\[\w-\d]{3,20}`.
- A regex that worked in both versions: `^\w{2,10}-\d{2,5}`.

Customers using regular expressions to parse barcodes should verify those expressions are returning the expected results.

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 Part Number/Revision: PN-0069, Revision A | Date: January 2025  
 This document applies to GT 450 release 1.4.1 and later.


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**User Resources**

- ▶ For the latest information on Leica Biosystems Aperio products and services, please visit [www.LeicaBiosystems.com/Aperio](http://www.LeicaBiosystems.com/Aperio).

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**Revision Record**

Rev	Issued	Sections Affected	Detail
A	January 2025	All	New document



23GT450  
 23GT450-R  
 23GT450SAMSW



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