**Document name**
AutoTEM Cryo 2.4.4 release notes

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# Table of Contents

# 1 Introduction

This document contains the release notes for the application AutoTEM Cryo, bugfix release containing bug-fixes listed in this document.

## 1.1 Contents & Audience

This document is intended for internal ThermoFisher departments such NanoPort departments, Application Development teams and Global Technical Support team.

# 2 Brief motivation and value statement

AutoTEM Cryo 2.4.4 is the bug fix release of existing product.

## 2.1 Target systems

Version 2.4.4 is officially compatible with these microscope families:

- Aquilos G2+ with xT version 32.0.0 and newer
- Hydra Bio with xT version 17.41.0 and newer

Exact compatibility matrix with XT platform versions is available on SWArchive web site (accessible from ThermoFisher Scientific intranet).

## 2.2 Upgrades

Upgrade is possible from previous versions - AutoTEM Cryo 2.2.0 and AutoTEM Cryo 2.4.x
But there is a known issue with template compatibility. See the known issue section in this document.

## 2.3 Install directory

The software will be installed into `C:\Program Files\Thermo Scientific AutoTEM Cryo 2.4\`
Application configuration will be installed into `C:\ProgramData\Thermo Scientific AutoTEM Cryo\2.4\`

## 2.4 User documentation

User Manual can be opened from the Help menu after the product is installed.

## 2.5 System Requirements

- Operating system: Windows 10 x64
- If cooperation with MAPS is required, then at least version Maps 3.20 must be installed on the system. But recommended is to update to the newest version of Maps.

# 3 Solved issues in AutoTEM Cryo 2.4.4

This section lists all the main fixes in AutoTEM Cryo 2.4.4.

- Support of the Hydra Bio

# 4 Solved issues in AutoTEM Cryo 2.4.3

This section lists all the main fixes in AutoTEM Cryo 2.4.3.

- Support MyMicroscope installation
- Add check to lamella positions if stage is in FLM position
- Fix moving to the lamella which is at the edge of the tile
- Minor fixes in documentation and best practice document

# 5 Solved issues in AutoTEM Cryo 2.4.2

This section lists all the main fixes in AutoTEM Cryo 2.4.2.

- Fix of the communication issue between applications Maps and AutoTEM Cryo
- Enable possibility to setup beam current and high voltage for imaging activities

# 6   Solved issues in AutoTEM Cryo 2.4.1

This section lists all the main fixes in AutoTEM Cryo 2.4.1.

- Minor fixes in documentation and best practice document
- Fix patterns definition bug in the artificial fiducials activity
- Improve help text in tooltips
- Fix disabled form fields with overlap factors
- xT 32.x initial support

# 7 Solved issues in AutoTEM Cryo 2.4.0

This section lists all the main fixes in AutoTEM Cryo 2.4.0.

- Support of the ROI (Region of Interest) targeting using images from fluorescence light microscope
- Artificial fiducials activity implemented in the preparation step
- Improved drift-correction robustness in Preparation step (valid namely for very blotted cells)
- Support of the new 35-degree pre-tilted shuttles
- Support of the new platform version xT 32.0.0
- Image viewer added as an independent product available to the customer
- User interface redesign
- Updated tooltips
- Updated manual
- Added detailed best practice document
- Delay activity enhancement (beams off, safe stage position)
- Eucentric tilt activity enhancement
- RCS pattern is now supported in all milling activities
- Various smaller changes and improvements that lead to better usability and stability of the application

# 8   Known issues in AutoTEM Cryo 2.4.4

This section lists all known issues in AutoTEM Cryo 2.4.4 application.

- Templates created in the AutoTEM Cryo version 2.2.0 can be used in AutoTEM Cryo 2.4.4 and newer. But activity *Electron reference definition* must be disabled in these templates. Otherwise, lamella placement precision can be affected. **To avoid this issue, we strongly recommend using only templates based on templates from AutoTEM Cryo 2.4.4.**
- When Nav-Cam is not working then AutoTEM Cryo workflow can fail with exception: Detector type 'NOC' is not yet supported. To fix this problem select different image source (e.q. Ion beam) in the quad with Nav-Cam.