

Leica Geosystems Release Notes

Product Leica ScanStation P50, P40, P30, P16, P20, P15
Date 25th February 2021
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Release Notes Leica ScanStation Pxx Firmware v3.0



These Release Notes contain important information about the new Leica ScanStation P50/P40/P30/P16/P20/P15 firmware v3.0

The new firmware can be obtained from your local Leica Geosystems Selling Unit or can be downloaded from the myWorld @ Leica Geosystems customer portal:

<https://myworld.leica-geosystems.com>



The firmware is license protected and can only be loaded onto instruments with a valid CCP maintenance contract.

Firmware Version	FW File	Maintenance Date
3.00.112	Pxx_3.00.112.fw	01 October 2020

This firmware can be loaded to all scanners with maintenance expiry date on or after 01 October 2020.

If the CCP contract has expired, then please contact your local Leica Geosystems Representative to learn about Customer Care Packages (CCPs) that include firmware maintenance so that you can benefit from the latest firmware improvements.



WHAT'S NEW

1. Compatibility with Leica Cyclone FIELD 360

With the new firmware the ScanStation Pxx is now supported by Cyclone FIELD 360. ScanStation Pxx users can benefit from scanner control, in-the-field pre-registration and data checking in the mobile device app using Apple (iOS) or Android tablets or mobile phones.



2. Data Copy Tool: LUT generation to support FIELD360 compatibility

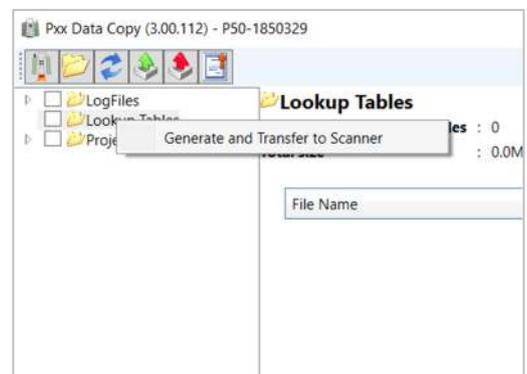
Lookup tables (LUT) on the ScanStation Pxx are a precondition for compatibility with Cyclone FIELD 360 and can be created in the Pxx Data CopyTool.

Right click the section **Lookup Tables** and select **Generate and Transfer to Scanner** to generate 21 LUT files and automatically transfer them to the attached scanner.

After generation the files are displayed in the section **Lookup Tables** of the Data Copy Tool.

Lookup Tables are serial number dependent and must be created separately for each scanner.

A new version of the Pxx Data Copy Tool and instructions how to use it can be downloaded from myWorld @ Leica Geosystems: <https://myworld.leica-geosystems.com>



3. Transfer of Lookup Tables

In **Tools, Transfer, System Files** a new tab **Lookup Tables** has been added. LUTs can be:

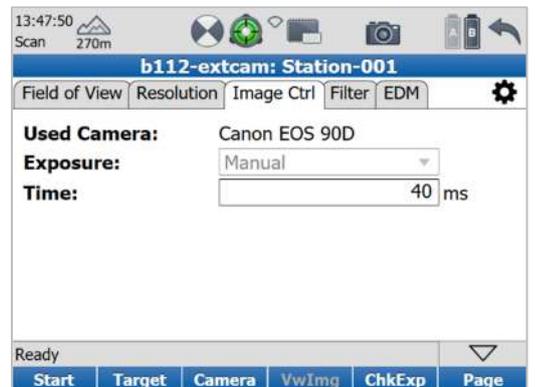
- copied from scanner to USB stick (**To USB**)
- uploaded from USB stick to scanner (**To SSD**)
- deleted from scanner (**F4=Delete**)

LUTs are removed from the scanner when a full format of the data partition is executed. Quick format does not remove them.

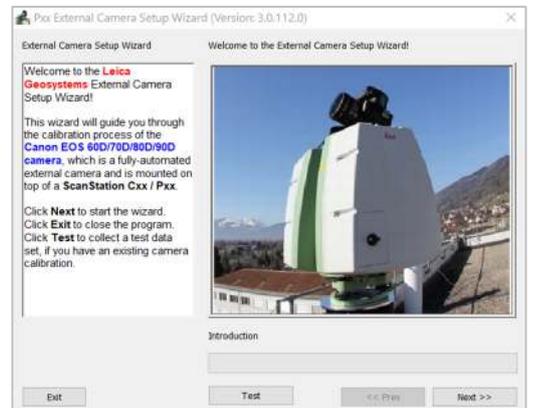


4. Support of Canon EOS 90D external camera

In addition to the existing camera models Canon EOS 60D, 70D and 80D the new firmware now also supports the **Canon EOS 90D** external camera.

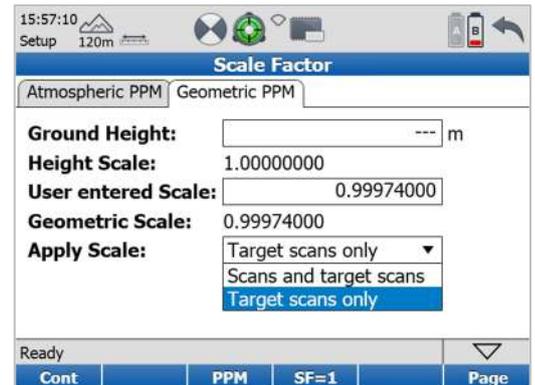


A new version of the **Pxx External Camera Wizard** can be downloaded from myWorld @ Leica Geosystems:
<https://myworld.leica-geosystems.com>



5. PPM scale factor: enter decimal value

- In the **Geometric PPM** tab the geometric scale factor can now be entered not only as PPM but also as a decimal number. The user can switch between the screens with the **F3=PPM/SF** button. E.g. a scale factor of 0.999740 equals to a PPM of -260.
- As a new option the scale can be applied to **Targets Scans only** or to **Scans and Target Scans**.



6. More robust raw data storage, better recovery

For a more robust raw data storage every time a new station is created, the current Project.prj file in the main project folder is copied to the previous station folder. As a result in each station folder there is a backup of the Project.prj file with the latest status which can be used for recovery in case of data corruption.

BUG FIXES

- Some users reported a vertical offset at the joint between face I and face II when displaying the data in the Scan Viewer of the scanner onboard interface or in the Data Copy Tool. This display error has been fixed.
- When a double scan was cancelled during the scan in face II, then the display was correct in the onboard viewer and in the Data Copy Tool. Both screens displayed the full scan as defined by the user. But in Cyclone only the part of face II until the cancellation of the double scan was displayed. The remaining part of the scan was not displayed. This defect has been fixed.

FIRMWARE INSTALLATION

- **The new firmware v3.0 can be installed on any ScanStation P50/P40/P30/P16/P20/P15 scanner with a valid CCP contract, independent of any previous firmware version.**
- **Compatibility with Cyclone, Cyclone REGISTER 360 and Cyclone FIELD 360**
 - Cyclone v2021.0.0 or higher is required to import FW v3.0 data
 - Cyclone REGISTER 360 v2021.0.0 or higher is required to import FW v3.0 data
 - Cyclone FIELD 360 v3.0 or higher is required to synchronise FW v3.0 data