

Geomagic Perceptron Plugin 13.0

Release Notes version B, April 18, 2007

Enables Geomagic **Studio 9 sr 3** and *subsequent* releases,
and Geomagic **Qualify 9 sr 1** and *subsequent* releases
to operate with Perceptron **V5 Sensor** and **V4i Sensor**

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Prerequisites

This plugin requires a Geomagic product listed in the heading. To verify your current version, launch the application and select **Help -> About Geomagic ProductName**. The text box at the top of the dialog indicates the current software version.

Installation

1. Verify installation of a Geomagic product listed in the heading.
2. Uninstall any version of the Perceptron plugin. Click **Start | Control Panel | Add or Remove Programs**, click **Geomagic Plugin for Perceptron N**, then click **Remove**.
3. Read the ScanWorks manual for installation and setup of hardware and software. In summary: install WinRDS, install CimCore/Perceptron ScanWorks software, install the arm and scanner, calibrate the arm and scanner, and make a test scan.
 - The Perceptron V5 Sensor requires ScanWorks 5.0.
 - The Perceptron V4i Sensor requires ScanWorks 4.63.
4. Log in to Windows as a user with administrative privileges.
5. Obtain the installer named **PerceptronSetup13.exe** from the Geomagic website.
6. Run the installer.

User Instructions

See "*Perceptron Plugin, Document Version K*".

Certain controls of the user interface are grayed out when the hardware is **V4i**.

New Features in this Geomagic Perceptron Plugin

In addition to the **OK** and **Cancel** buttons that can be pressed at the conclusion of a **Hardware Alignment, Features and Datums, Laser Capture, Probe Capture** or (in Qualify only) the **Laser Compare** process, there is a new **Merge>>** button. The **Merge>>** button closes the plugin and pops up the **Merge Scans** dialog for the purpose of merging any set of objects that exist in the Model Manager. The Merge Scans dialog can also merge the Features and Datums from a specified object into the merged result. This mechanism eliminates the need to perform similar actions manually using multiple commands in the Studio or Qualify application. See the *User Instructions* for details.

Please Note

The **Scanner Profile, Scanner Calibration,** and the **Auto Exposure** icons buttons, all in the **Scanner Controls** group, are sensitive for the Perceptron V5 Sensor only. To perform those functions on the V4i Sensor, use the Perceptron ScanWorks application.

Known Issues

- The user interface is available in English, Spanish, French, German, Italian, Japanese, and Chinese, but the new **Merge Scans** dialog appears in English only.
- Under unusual circumstances, the value in the **Max. Deviation** field of the Laser Compare function unexpectedly jumps to 0, causing the next data collection process to give no results. If a data collection process yields a blank Viewing Area, manually set **Max. Deviation** to an appropriate value. Note that **Max. Deviation** has a maximum value that is determined by the geometry of the Reference object, meaning that the value that appears in the field might be lower than actually entered by the user.
- Users might like to hard probe without the laser scanner attached to the arm. As of ScanWorks version 5.0.38, however, ScanWorks doesn't initialize properly unless the laser scanner is attached. Therefore, to hard probe without the laser scanner, remove the scanner only after ScanWorks is started. This restriction may be removed by a newer version of ScanWorks.
- If the laser takes up to 8 seconds to start after clicking Start Capture, Laser Capture, or Laser Compare, then shut down the plugin, verify that external output is enabled in ScanWorks, shut down ScanWorks, restart ScanWorks, and restart the plugin. This is true with ScanWorks 5.0.38.