

Geomagic Perceptron Plugin 14.0

Release Notes version A, December 14, 2007

Enables Geomagic **Studio 10** 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 or 5.1
 - The Perceptron V4i Sensor requires ScanWorks 4.63 or 5.1
4. Log in to Windows as a user with administrative privileges.
5. Obtain the installer named **PerceptronSetup14.exe** from the Geomagic website.
6. Run the installer.

User Instructions

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

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

New Features in this Geomagic Perceptron Plugin

The primary purpose of this release is to be compatible with Geomagic Studio 10.

In the **Hard Probing Alignment** widget, the **3-2-1 Alignment** function has been removed because it is now part of the main application. It is now found at **Tools > Alignment > 3-2-1 Alignment with Hard Probe**.

The plugin can still create Features by hard probing, but that functionality is also added to the main application at **Tools > Features > Create Hard Probing Features**.

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.