



WHAT'S NEW IN VICON NEXUS 2.15?

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Revision 1. For use with Nexus 2.15

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About Vicon Nexus 2.15

Vicon Nexus 2.15 is a point release that provides features and enhancements in addition to those that were included in earlier releases of Nexus 2. For more information, see [Nexus 2.15 new features and changes, page 5](#).

This release also benefits from ongoing maintenance and includes a number of [Addressed issues, page 27](#).

For workarounds for remaining issues, see [Known issues, page 28](#).

Nexus is 64-bit only

Nexus is 64-bit only. In most cases, you should upgrade to the latest version of Nexus to benefit from the latest functionality. Before you upgrade, note the following points:

VDDs (Vicon digital device files)

- **64-bit VDDs** When you install the plug-in for your device, ensure that the 64-bit version of the VDD is correctly installed to the folder:
`C:\Users\Public\Documents\Vicon\Nexus2.x\DigitalDevices64\`
- **32-bit VDDs** If you use a VDD (Vicon digital device file) that does not have a 64-bit version, continue to use Nexus 2.12.# until the vendor of your VDD releases a 64-bit version of the VDD. For information about the availability of the 64-bit version of the VDD, please contact the vendor.

OpenGL solution for non-NVIDIA graphics processors

The OpenGL solution for non-NVIDIA graphics processors is supported for Nexus 2.13 and later (see [Graphics processors for Nexus, page 25](#)).

Note that a different version of the DLL is required for Nexus 2.13 and later than for earlier releases of Nexus.

Update to ProEclipse

Nexus 2.14 and later provided an updated version of ProEclipse so that the path to Vicon Polygon now uses the *Program Files (x86)* folder when called from a 64-bit application.

Change to app for firmware management

You now manage firmware using the Vicon Firmware Manager. For information, see the [Vicon Firmware Manager Quick Start Guide](#)¹.

Note that in versions of Nexus earlier than Nexus 2.15, the Vicon Firmware Update Utility performs the same function as Vicon Firmware Manager and is used in the same way.

¹ <https://docs.vicon.com/display/FirmwareManager/Vicon+Firmware+Manager+Quick+Start+Guide>

Nexus 2.15 new features and changes

Nexus 2.15 provides the following new features:

- [Compatibility with Vicon Valkyrie cameras, page 6](#)
- [Improvements to video transcoding, page 16](#)

Compatibility with Vicon Valkyrie cameras

The latest version of Nexus is compatible with Vicon Valkyrie cameras, enabling you to benefit from their speed, resolution and power.



Nexus 2.15 is compatible with the following Valkyrie camera models:

- VK26, with a resolution of up to 26.2 megapixels (5120 x 5120) and full frame capture speed of 150 fps
- VK16, with a resolution of up to 16.1 megapixels (5120 x 3152) and full frame capture speed of 240 fps

The Valkyrie range features:

- New Vicon-proprietary varifocal lens for highest quality data, with wide and narrow Fields of View
- IP65 rating, for challenging environments
- Unparalleled resolution (26 MP), offered by the VK26

In addition, all models offer:

- **Status lights and display** A front-facing TFT LCD (thin film transistor liquid crystal display) as well as side-mounted status lights, which give clearly visible camera ID information and system feedback. For more information, see [Valkyrie status LEDs and TFT LCD display, page 9](#).
- **Accelerometer** This enables you to select a camera in the volume by tapping it, and monitors the camera position to let you know if the camera is accidentally knocked or moved from its intended position. For more information, see [Valkyrie Tap to Select feature, page 11](#) and [Valkyrie bump detection and display, page 12](#).
- **Automatic temperature monitoring** Thermal sensors monitor camera temperature levels, so that you are warned of any changes in temperature that could affect the system status. For more information, see [Valkyrie temperature display, page 14](#).

With a new Vicon-provided power switch (UPoE), you can connect up to 8 Vicon Valkyrie cameras to the host PC. The system can be expanded with additional switches to up to 160 Valkyrie cameras.


To connect Valkyrie cameras to the host PC, Vicon offers a range of options, depending on the number of cameras you want to use and whether you are adding them to an existing Vicon system. To determine the most appropriate topology for your system, see the Valkyrie system diagrams and contact your local Vicon Sales representative.

For synchronization to third-party devices and timecode, together with connections for analog devices, you can add a Vicon Lock Lab to your Valkyrie system.


⚠ Important: Vicon Valkyrie cameras can be used in the same system as Vicon Vantage, Vero, Viper and Bonita cameras, but if you add Valkyrie cameras to a system that includes T-Series cameras, the T-Series cameras will not work.

Also note that using T-Series cameras with Nexus 2.15 is not supported or tested. Use of T-Series cameras with Nexus 2.15 and later is at your own risk. For information on using these cameras, see the documentation for versions of Nexus earlier than 2.15.

In addition to working with the latest version of Vicon Nexus, Vicon Valkyrie cameras can also be used with the Vicon Control app.

 **Caution:** To maintain IP65 protection for your Vicon Valkyrie cameras, ensure that if you remove IP65 cable caps (and/or lens covers), you replace them correctly, as described in Remove and replace IP65 cable cap and Set camera focus and aperture, steps 2 and 9) in the *Vicon Valkyrie Quick Start Guide*².

For more information on setting up Vicon Valkyrie systems, see the Vicon Valkyrie documentation.

 **Important:** None of the certification relating to Valkyrie is for medical usage and no fitness for medical usage is implied.

For more information on using Valkyrie cameras with Nexus, see the following topics.

- [Valkyrie status LEDs and TFT LCD display, page 9](#)
- [Valkyrie Tap to Select feature, page 11](#)
- [Valkyrie bump detection and display, page 12](#)
- [Valkyrie temperature sensor display, page 14](#)

² <https://docs.vicon.com/display/Valkyrie/Vicon+Valkyrie+Quick+Start+Guide>

Valkyrie status LEDs and TFT LCD display

To help you monitor the status of Vicon Valkyrie cameras, the cameras include status LEDs and a TFT LCD (thin film transistor liquid crystal display):

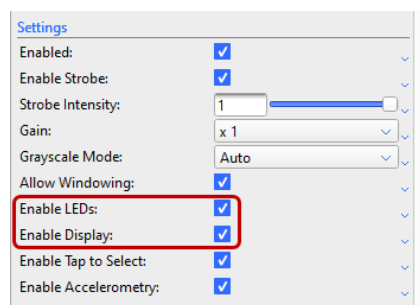
- Three LEDs provide feedback on camera operation, one pair on either side of the camera, and one below the display.
- The display on the front of the Vicon Valkyrie camera, combined with the status LEDs' color, gives information about the current camera status.

Under normal conditions (unless a connected application changes the display, and unless the display has been disabled in Nexus), the display changes to reflect the camera status.



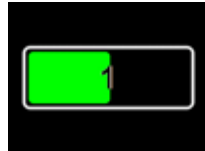
To change the display of Vicon Valkyrie camera status information:

1. In the **System Resources** list, select a camera (or all cameras).
2. In the **Settings** section of the **Properties** pane, select or clear **Enable LEDs** and/or **Enable Display**.



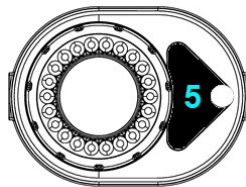
With **Enable LEDs** and **Enable Display** selected, while the camera is booting, the display shows the Valkyrie logo and the status LED color changes from gold to blue when it connects to Nexus.

The display changes to reflect the camera's status, giving information about camera status, for example when the camera has finished booting, whether it is currently active, and its calibration status.



When Enable Display is cleared, the display is blank.

When Enable Accelerometry is selected (see [Valkyrie bump detection and display, page 12](#)), the image on the display rotates based on the orientation of the camera.



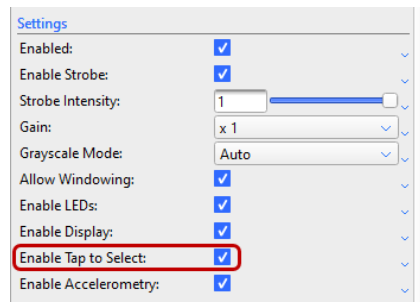
After the camera has booted, you can check the cameras' status by observing the status LEDs and the display on each camera. You can also monitor the camera status in Nexus.

Valkyrie Tap to Select feature

Vicon Valkyrie cameras provide a Tap to Select feature, which enables you to lightly tap the camera in the volume to select it (and deselect the other cameras). Enable Tap to Select is turned on by default.

To turn Tap to Select off or on:

1. In the System Resources list, select the required camera.
2. In the Properties pane, go to the Settings section and clear or select Enable Tap to Select.



Note that when **Enable Accelerometry** is selected, if you tap a calibrated camera too hard, the camera may be reported as 'bumped' (that is, its Bumped status may be selected in the Status section and it may be displayed with a 'caution' icon in the System Resources list)

You can remove the camera's bumped status in Nexus. If this is a frequent occurrence, you can change its sensitivity to being tapped by reducing the **Bump Detection Sensitivity**.

For information on removing a camera's bumped status and changing Bump Detection Sensitivity, see [Valkyrie bump detection and display, page 12](#).

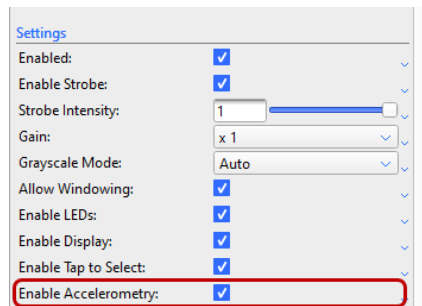
Valkyrie bump detection and display

In addition to the Tap to Select feature (see above), Vicon Valkyrie cameras also provide bump detection.

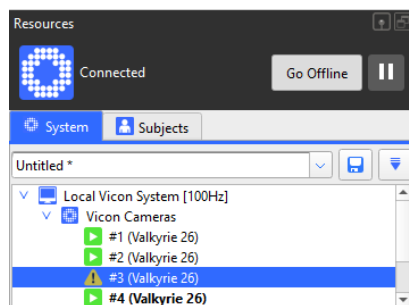
When **Enable Accelerometry** is selected, (its default state) bump detection works on calibrated cameras to alert you when they have moved from their calibrated positions. (This setting also turns on or off the auto-rotation of the display on Valkyrie cameras.)

To turn bump detection off or on:

1. In the **System Resources** pane, select a camera (or all cameras).
2. In the **Properties** pane, expand the **Settings** section and clear or select **Enable Accelerometry**.



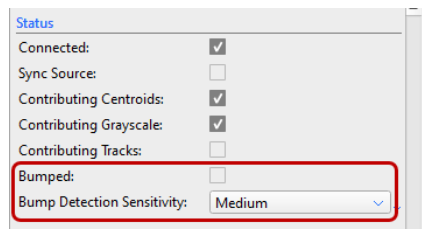
3. When **Enable Accelerometry** is selected, if a calibrated camera is accidentally knocked, its icon changes in the **System Resources** list.



In addition, the camera's **Bumped** check box (in its **Status** properties) displays a check mark.

To change the sensitivity of the accelerometer:

1. In the **System Resources** list, select the required camera.
2. In the **Properties** pane, go to the **Status** section and select a different option in the **Bump Detection Sensitivity** menu.



To clear a camera's Bumped status:

For a single camera:

1. In the **System Resources** list, select the bumped camera.
2. In the **Status** section of the **Properties** pane, clear the **Bumped** check box.

For all cameras:

Press **Ctrl+Shift+B**

Note the following limitations of bump detection:




- Bump detection is active only on calibrated cameras.
- Bump detection cannot detect movement that does not change the local gravity vector, for example. slow translation with no rotation; rotation about the G-vector.
- Bump detection cannot detect movements that occur when the camera is not connected to a live system.
- The camera is detected as bumped when the reading from the accelerometer is sufficiently different from the last reading that was sent. Therefore gradual changes (for example, a slipping camera mount) may not be detected until they are large enough to trigger a new notification.

Valkyrie temperature sensor display

Significant changes in camera temperature can have small effects on the camera's lens. Camera calibrations take into account lens intrinsics. Changes in these intrinsic properties can have small impacts on overall data quality. However, note that large temperature changes generally result in only very small data effects. Temperature monitoring is made available to optimize calibration-to-collection consistency.

Vicon Valkyrie cameras have on-board temperature sensors. These onboard temperature sensors enable you to determine when cameras have reached a stable temperature from a cold start and to observe any change in camera temperature (possibly associated with environmental changes).

The data for the onboard sensors is displayed in the Hardware section. A numeric indicator (in degrees Celsius) and a colored temperature indicator is displayed for each of the sensors. The color of the indicator changes to reflect a change in temperature: yellow (warming up to the temperature specified by the lower bounds), green (between the specified upper and lower bounds) or red (overheated above the upper bounds).

Hardware	
Type:	Valkyrie 26
Strobe Type:	IR
Camera Body Temp.:	36 
Camera Sensor Temp.:	36 
Camera Strobe Controller Te...:	43 

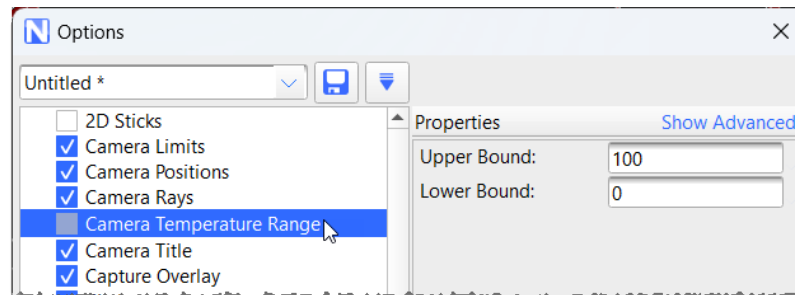
Note

In addition to the above warnings, when a camera's temperature sensors detect that the interior of the camera has reached the following values, Nexus warns you of your camera's status:

- Hot Case: 65.00°C
- Critical: 75.00°C
- Shutdown: 80.00°C

Because Vicon motion capture cameras are used in a wide variety of environments, a stable camera temperature will be different for different users. The **Camera Temperature Range** option enables you to set values that are representative of your laboratory environment.

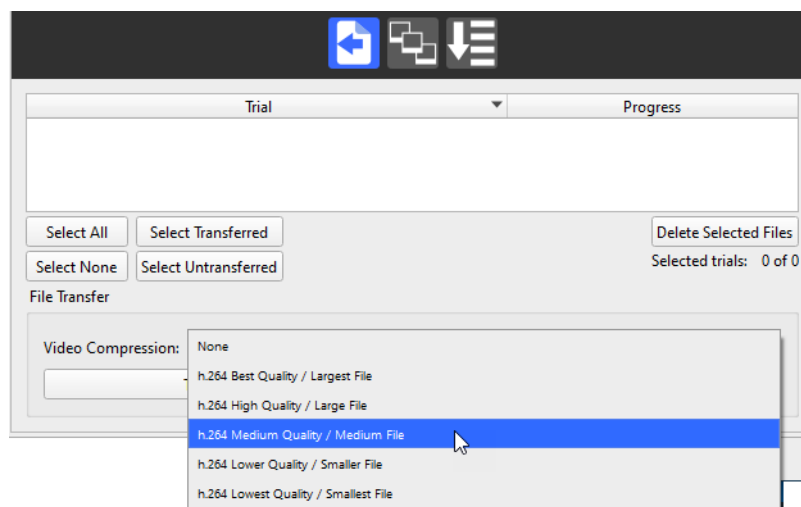
You can change the upper and lower bounds of the temperature range in the Options dialog box (F7).



Improvements to video transcoding

Improvements to transcoding with the H.264 codec have increased the speed of processing so that it is much closer to that achieved when using FFDSHOW.

To benefit from these improvements, be sure to transcode your video files using the File Transfer panel in the Communications pane.



If you run the Transcode Video for Trial pipeline operation, the speed of transcoding with the H.264 is the same as in previous versions of Nexus.

For more information on how to transcode video files in Nexus, see Transfer and transcode digital video files in the *Vicon Nexus User Guide*.

Requirements and upgrading

For information about requirements and systems supported for this version of Nexus, see:

- [Requirements for Nexus 2.15, page 18](#)
- [Vicon camera systems supported for Nexus 2, page 20](#)
- [Upgrading Nexus, page 21](#)

 **Note**

The Vicon motion capture system and the Nexus software, manufactured by Vicon Motion Systems Limited, have been tested prior to shipment and meet the metrological requirements as detailed in the Medical devices directive.

(See *Regulatory information* in the Nexus documentation area of the Vicon website, docs.vicon.com/3.)

³ <http://docs.vicon.com/>

Requirements for Nexus 2.15

Note the following requirements for Nexus 2.15.

For information on graphics cards, see [Graphics processors for Nexus, page 25](#).

For information on optimizing performance for AMD CPUs, see [Improving system performance on AMD CPUs⁴](#).

Operating system for Nexus 2.15

Nexus 2.15 is supported under the following operating system:

- **Microsoft Windows 10, 64-bit** (this is the Vicon-recommended OS):
Compatible with and fully supported. Installation, software operation and required third-party drivers tested.

Although Nexus may install and function under other Microsoft Windows operating systems, Vicon does not support or recommend this.

Basler video cameras and Nexus 2.15

Nexus 2.15 does not support the use of Basler video cameras. To use Basler video cameras with Nexus, use Nexus 2.12.1 or earlier.

MATLAB and Nexus 2.15

If you are planning to use MATLAB with Nexus 2.15, ensure that, in addition to installing MATLAB, you install the [.Net Framework version 4.5⁵](#) or later.

ProCalc and Nexus 2.15

To run ProCalc with Vicon Nexus 2.15, you must install ProCalc 1.2.1 or later.

To generate joint information (ProCalc angles) from combined Nexus-Theia trial data, you must install ProCalc 1.5 or later.

To generate both joint information and kinetics from combined Nexus-Theia trial data, you must install ProCalc 1.6 or later.

⁴ <https://docs.vicon.com/display/Connect/Improving+system+performance+on+AMD+CPUs>
⁵ <https://www.microsoft.com/en-gb/download/details.aspx?id=30653>

Vicon IMUs and Nexus 2.15

To update IMU firmware for Nexus 2.15, use Vicon Capture.U Desktop. For information, see the [Vicon Capture.U User Guide](#)⁶.

⁶ <https://docs.vicon.com/display/IMU>

Systems supported for Nexus 2

Before you install Vicon Nexus 2.15, note that Nexus captures data only from Vicon systems (including Vicon Valkyrie, Vicon Vero, Vicon Viper, and Vicon Vantage). Vicon Bonita cameras are also supported.

 **Note**

- Although you can use T-Series cameras with Nexus 2.15, this is not supported or tested.
- If you add Valkyrie cameras to a system that includes T-Series cameras, the T-Series cameras will not work.
- FLIR cameras are not compatible with T-Series cameras.

For information on using MX T-Series cameras with Nexus, see the documentation for versions of Nexus earlier than 2.15.

Upgrading Nexus

This section describes functionality that is dependent upon the version of Vicon Nexus that is being upgraded:

- [Upgrading from Nexus 2.7 and earlier, page 21](#)
- [Upgrading from earlier versions of Nexus 2, page 22](#)
- [Upgrading from Nexus 1.x, page 23](#)

Note

Although data collected in Nexus 2.15 (ie, .c3d files) can be viewed in earlier releases of Nexus, you cannot reprocess this data (ie, .x2d with .xcp files) in releases earlier than 2.7.

Upgrading from Nexus 2.7 and earlier

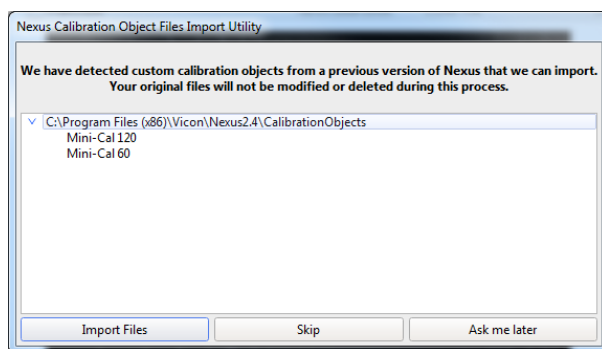
Improvements to camera calibration that were provided by Nexus 2.7 have the following effects on compatibility of data between releases:

- Data collected in earlier releases of Nexus can be reprocessed in Nexus 2.15 because calibration (.xcp) files that were created in earlier releases are fully compatible with Nexus 2.15. Note that if you load a calibration (.xcp) file that was created in an earlier release of Nexus into Nexus 2.15 and save it, Nexus maintains its compatibility with earlier releases.
- You can use earlier releases of Nexus to view data that was collected in Nexus 2.15 (that is, you can open Nexus 2.15 .c3d files in Nexus 2.7 and earlier).
- However, calibration (.xcp) files that are created in Nexus 2.15 are not backward-compatible, that is, they cannot be read by releases of Nexus earlier than 2.7, and loading will fail if attempted.

Upgrading from earlier versions of Nexus 2

If you are upgrading from a previous version of Nexus 2, during installation a dialog box gives you the option of adding the **Auto Intelligent Gap Fill** button and/or the **Add to Quick Report** button to your Nexus toolbar. For more information on these features, see *Automatically fill gaps in trial data* in the *Vicon Nexus User Guide* and *Quick Reports* in the *Vicon Nexus Reference Guide*. To add the additional button(s) to your toolbar, click **Upgrade Files**.

On first launch, Nexus 2.15 scans the installation directories of earlier versions of Nexus 2 and offers to automatically transfer custom objects that it finds.



If you click **Import Files**, Nexus 2.15 copies custom calibration objects from earlier versions of Nexus (2.0 and later) to the **Public Documents** folder (eg, `C:\Users\Public\Documents\Vicon\Nexus2.x\CalibrationObjects`).

Important

When you create new custom calibration objects, ensure you save them into this folder (not to the Nexus installation folder), so that they are available to future versions of Nexus.

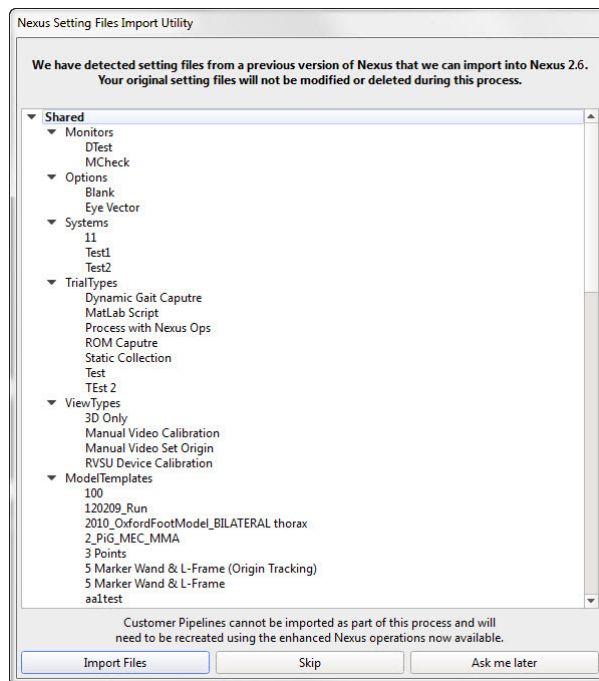
Upgrading from Nexus 1.x

Note

This section applies only to versions of Nexus that are earlier than 2.0.

Nexus 2.15 installs into its own folder, called *Nexus2.15*. If you already have Nexus 1.x installed, it will remain installed alongside the new Nexus installation.

On installation, Nexus 2.15 automatically scans for Nexus 1.x files, displays a list of any older files that it finds, and provides an automated system for importing these into Nexus 2.15.




This process copies all the old files and converts the copies, ensuring that original files are not moved, altered, or destroyed.

For more information on the installation and licensing process, see *Installing and licensing Vicon Nexus* .

Regulatory information

For Vicon Nexus regulatory details, see *Vicon Nexus regulatory information* in the Nexus documentation area of the [Vicon website](#)⁷.

 **Important:** None of the certification relating to Valkyrie is for medical usage and no fitness for medical usage is implied.

⁷ <https://docs.vicon.com>

Graphics processors for Nexus

Nexus is tested and fully supported with NVIDIA graphics processors. This is the Vicon-recommended graphics processor for PCs that are to run your Vicon system and Nexus software.

Using other graphics processors is not recommended and may affect the performance of the software.

If you experience issues with the software and you have been informed by Vicon Support that this is due to the graphics processor, note these points:

- Issues can occur when you first start the software, or may be due to a driver or Windows update.
- If you previously had a working configuration, consider rolling back the driver version or restoring Windows to a working restore point.
- Some laptops have both a dedicated graphics processor and an integrated processor. You can select the processor for use by an application. You can usually find the option for this by right-clicking the application's shortcut. You can find further general controls in the NVIDIA control panel.

If an NVIDIA processor is not available and Nexus stops responding, the following workaround may help. It involves installing an additional file to the Nexus program directory. To do this, you need read/write access to this location and may require the help of an administrator.

Mitigate graphics processor issues:

1. Download and unzip the file found in the OpenGL section at the bottom of [the Nexus page](#)⁸ on the Vicon website.

Two versions of the DLL are available on this page. Ensure you select the required version of the DLL, which depends on your version of Nexus:

- Nexus 2.13 and later – Download the 64-bit version
- Nexus 2.12 and earlier – Download the 32-bit version

Note that the filename is `opengl32.dll` for the 64-bit version, as well as for the 32-bit version.

2. With Nexus closed, place the `opengl32.dll` file in the folder that contains the Nexus executable (`Nexus.exe`), for example:

`C:\Program Files\Vicon\Nexus2.15`

3. Launch Nexus.
4. Repeat Step 2 for any other instances of Nexus.

This solution mitigates any issues that are due to the graphics processor which you may experience whilst you're running Nexus, however, performance, such as redraw and general navigation, may be adversely affected. This solution has been tested on a limited number of Intel graphics cards for Windows 10.

⁸ <https://www.vicon.com/software/nexus/?section=downloads>

Addressed issues

The following issues have been addressed in the latest release of Nexus:

- When specifying parameters for the **Run ProCalc Operation** pipeline operation, you can now select read-only schemes from the **Input Scheme** or **Variable Scheme** lists.
- When you add the **Run Theia ProCalc Scheme** operation to a pipeline, the **Variable Scheme** list now displays only Theia-specific schemes.
- Warnings from ProCalc (for example, that variables or inputs are missing) are now correctly displayed in the Log in Nexus.
- Mixing standalone licenses locked to dongles and to the machine no longer generates dongle error messages when the dongle is unplugged.
- Nexus no longer stops responding if you try to open a trial that contains data in extended ascii characters such as Russian, Japanese or Arabic, or if the history file is corrupted.
- Motek calibration files now populate the 6x6 matrix correctly given a valid input file.

Known issues

The following issues are known to exist in this release.


(For information on CGM2 issues, see Known issues for CGM2 in the *Vicon Nexus Reference Guide*.)

Issue	Workaround
<p>If you change the frame rate while Enable Preview Mode is selected, the camera sometimes stops contributing data, its icon in the System pane turns gray and the Cameras view goes blank.</p>	<p>Set the frame rate before you select Enable Preview Mode.</p>
<p>In systems that include both Vicon Vantage cameras and Vue video cameras, if the Vues are activated when Enable Preview Mode is selected in Nexus, the video preview for the Vantage camera(s) displays black frames.</p>	<p>While you're using Video Preview mode, deactivate any Vue video cameras in the system.</p>
<p>When using Video Preview mode with Vantage cameras, the strobe is automatically turned off and the preview displayed may be too dark to see clearly.</p>	<p>When using Video Preview mode with Vantage cameras, manually turn the strobe on.</p>

Issue	Workaround
<p>If you have a 32-bit version of Nexus 2.12 or earlier installed together with a 64-bit version of Nexus on the same machine, and set the value for the Local Vicon System property, Buffer Size, in the later version of Nexus to a value higher than 1024 MB, when you try to connect the 32-bit version to the live system, Nexus stops responding.</p>	<p>Contact Vicon Support⁹ regarding replacing your system file.</p>
<p>If you select multiple FLIR cameras in Nexus, right-click and then click Reboot, some cameras are not rebooted and in the System panel, they are displayed with yellow warning icons. For each camera that did not reboot, an error is displayed in the Log.</p>	<p>Re-select the FLIR cameras that failed to reboot and reboot them again.</p>
<p>When using Auto Capture Setup to specify settings for data capture, if you are using FLIR cameras and set Capture before start to more than 1 second, capture fails and an error message is displayed.</p>	<p>When using FLIR cameras, do not set Capture before start to a value greater than 1s.</p>
<p>When more than four video camera views are displayed at the same time in offline mode, a noticeable lag occurs in the views during playback. The performance of the data capture is unaffected.</p>	<p>During playback or when scrubbing in the time bar, do not display more than four video camera views with the 3D Perspective view.</p>

⁹ <mailto:support@vicon.com>

Issue	Workaround
<p>If you run the Autolabel Static pipeline operation on a trial that contains multiple subjects, only one of the marker sets is labeled, and the labeling ignores which subject is selected.</p>	<p>Use manual labeling instead of the Autolabel Static pipeline operation.</p>
<p>If you directly connect a Tobii recorder to the network card on the PC using an Ethernet network cable, start Nexus and add Tobii Pro Glasses 3 as a digital device, and then unplug the Ethernet cable from the recording unit and plug it back in, Tobii Pro Glasses 3 don't reconnect to Nexus and an error is displayed: Source data unavailable. This issue may also occur when you initially connect a Tobii recorder directly via Ethernet, if the Tobii Pro recorder is turned on before you start Nexus.</p>	<p>If, after you've started Nexus, you need to disconnect a Tobii recorder that is connected via Ethernet to the network card on the PC, after reconnecting the Tobii recorder, turn the recorder off and then turn it on again.</p>
<p>If USB3 cameras are physically connected (ie, plugged in) when you start up the PC, some cameras may only work at 16 Hz max.</p>	<p>Unplug the affected cameras and plug them back in.</p>
<p>If you are using a FLIR camera, when you start masking or calibrating, and also when masking or calibration ends, a warning may be briefly displayed informing you that the DV camera is not set to a valid frame rate.</p>	<p>None. This is expected behavior: masking and calibrating are unaffected and the warning quickly disappears.</p>
<p>If you have opened Theia outside of Nexus, and then try to run Theia processing through Nexus, the trials are not processed.</p>	<p>Before running Theia processing from Nexus, close any other instances of Theia that are currently running.</p>

Issue	Workaround
<p>When you're using Tobii Pro Glasses 3, if the glasses are disconnected from an Ethernet connection and then reconnected, in Nexus, the device continues to be displayed as not contributing (with a gray Play icon) and it stops sending data.</p>	<p>To return the device to full functionality, perform a manual resync. To do this: In the Nexus System tree, right-click Local Vicon System and then click Resynchronize.</p>
<p>The sample rate value for AMTI Force Plates displayed in the System tree doesn't match the Acquisition rate that is selected in the Properties of the AMTI Devices Controller. Except in the case of the initial value, the sample rate that is displayed in the System tree is the last selected Acquisition rate, not the current rate.</p>	<p>In the Properties of the AMTI Devices Controller, temporarily change the value (up or down) for Fz Threshold. The sample rate for the force plates in the System tree changes to match the selected Acquisition rate of the AMTI Devices Controller.</p>
<p>When you select a connected Delsys Trigno EMG digital device and in its Properties, set the Trigger Mode to Triggered and then configure the correct sync port, the Delsys device disconnects, and in the System tree, its icon goes gray. Devices do not reconnect until you set the Trigger Mode back to Not Triggered.</p>	<ol style="list-style-type: none"> 1. In the Nexus System tree, right-click Local Vicon System and then click Resynchronize. 2. Wait for the Delsys device icon(s) to go green and during the next 4–5 seconds (while the device icons are green), press the START Trigger push button  at the top right (below the power indicator) on the Delsys Trigger Module. Delsys devices stay connected and green, synchronized and ready to capture a trial.
<p>When you're using a Blue Trident sensor to capture movement, and have Global Angle selected, global angles are streamed, but both global angles and 9-axis raw data is captured to the sensor.</p>	<p>None</p>

Issue	Workaround
<p>When you're using Vicon Blue Trident sensors, at high device counts, some sensors begin to drop packets, so some flickering may be observed in the view pane.</p>	<p>When working with a large number of sensors, reduce the Bluetooth stream rate or the number of enabled axes. This issue does not affect the data recorded to the device.</p>
<p>If you drag the Report Options pane to outside of the Nexus Quick Reports window and release the mouse button, then try to drag it back, it does not re-attach inside the Nexus Quick Reports window.</p>	<p>To restore the Report Options pane to its previous docked location, double-click its title bar, then drag it to the required position within the Nexus Quick Reports window.</p>
<p>The Nexus Quick Reports window does not have a Close button.</p>	<p>To close the window, press F4.</p>
<p>A crash can occur if any Noraxon EMG error messages are not dismissed before shutting down Nexus.</p>	<p>Dismiss all Noraxon EMG error messages before exiting Nexus.</p>
<p>When run via the Run Python operation, the Load Trial command in the Python SDK is not able to load a trial.</p>	<p>Run the Python script from IDE or command line.</p>
<p>Device drivers for Cometa/Wave depend on your Windows version.</p>	<p>For Windows 10 device drivers, contact Cometa.</p>
<p>When the system frame rate is set above 80Hz, if you enable Preview mode, no preview is displayed for Vicon Vantage cameras (the Camera view is blank).</p>	<p>To use Preview mode with Vantage cameras, select a system frame rate below 80Hz.</p>
<p>When you right-click the Devices node on the System Resources pane, the required digital device is not available in the Add Digital Device menu.</p>	<p>When you install the relevant plug-in, ensure that the VDD is correctly installed to the folder: C: \Users\Public\Documents\Vicon\Nexus2.x\DigitalD evices64\</p>

Issue	Workaround
<p>Noraxon Telymyo DTS device halts camera and analog data delivery when Noraxon devices are housed/not charged.</p>	<p>Digital devices now have an Enabled parameter in their Properties pane. To prevent a given manufacturer's plugin from holding up the rest of Nexus, clear Enabled for ALL devices from that manufacturer.</p>
<p>Unable to run legacy Static Gait Model under Japanese Windows. Log entry reads: No parameter file found</p>	<p>The legacy Plug in Gait model does not support international character sets. Instead of using the legacy Plug-in Gait model, use the Nexus 2 replacement gait model (found under Data Processing pipeline operations: Process Static Plug-in Gait Model and Process Dynamic Plug-in Gait Model).</p>
<p>Export c3d at the end of a pipeline does not clear the trial and leaves the trial with a dirty flag (*).</p>	<p>The Export C3D operation does not write out the subjects associated with the trial. To remove the dirty flag on a trial, save the entire trial, which saves all associated files (x2d, xcp, etc), using the Save Trial - C3D + VSK operation.</p>
<p>Video capture duration can be limited directly after deletion from SSD storage.</p>	<p>After deleting your video files, wait a few seconds before starting your next capture. This is because some Solid State Drives require a few seconds to recover full Write speed after file deletion.</p>
<p>Spaces in variable names can cause BodyLanguage to fail.</p>	<p>When creating subject parameters for use in BodyLanguage modeling, use underscores instead of spaces.</p>
<p>Nexus can suffer many problems if Eclipse databases are created in locations that are Read-only. These problems range from data silently failing to save to crashes.</p>	<p>NEVER create Eclipse databases in locations that require administrator privileges to read or write.</p>
<p>Starting a capture very soon after a change to the system frame rate, or a resynchronization, can result in erratic capture behavior (failure or dropped frames).</p>	<p>Avoid starting captures soon after changing the hardware setup.</p>