

System Requirements

For the correct use of DASYLab 2026, the following minimum requirements must be met:

Hardware

CPU	X86-compatible processor from 1 GHz
Memory	minimum of 1 GB, 8 GB recommended
Disk Space	1 GB free space, of which at least 500 MB on the system partition
Video/Graphic card	Color depth at least 24 or 32 bits (True Color)
Screen resolution	At least 1024x768, multiple external monitors supported.

Operating Systems

- Windows 10, 32 Bit
- Windows 10, 64 Bit (as 32-Bit application)
- Windows 11, 64 Bit (as 32-Bit application)

 **Notes: In order to use DASYLab 2026, you need an updated serial number, if you have not purchased a maintenance contract – even if you already have a DASYLab license for an earlier release. In doubt, please contact your reseller.**

 **Hints:**

- Please note that this version is a new release of DASYLab. You can install this version in addition to an older version on the same computer. However, you can only run one DASYLab version at a time. Please keep in mind that the saved worksheets (.DSB format) can no longer be opened with an older version.
- Please note that not every DASYLab driver supports all listed operating systems.
- Please note that you need administrator rights to install DASYLab, to access the configurator and to work over the network. If you are logged in as a standard user, you can use DASYLab, but you cannot change the configuration. DASYLab does not support logging in as a guest.
- You must not use Asian characters in the installation path.

Compatibility with older DASYLab versions

Due to the extensive changes to the data format and other modifications to the DASYLab programming interface, all third-party modules created for DASYLab 2020 and 2016 (which use the Extension Toolkit for implementation) should be adapted. Drivers and modules created for DASYLab from 2016 onwards can be used as they are. However, you will then not be able to use the new features introduced in DASYLab 2022 (e.g. SmartMux).

Older drivers that still use the **driver toolkit** - these are selected in the menu item **Measurement >> Select driver...** are not affected by this and will work with DASYLab 2026. However, these drivers cannot use the changes introduced with DASYLab 2016 (higher precision and larger blocks).

Compatibility of the serial number

The DASYLab 2026 serial number is no longer compatible with DASYLab versions before 2024. Previously, you could also unlock older DASYLab versions with your current serial number. This is no longer possible with the DASYLab 2026 serial number.

If you require an older DASYLab version in addition to your current DASYLab version, please contact your distributor. They can also provide you with a serial number for older DASYLab versions based on your current license.

What's new in DASYLab 2026?

DASYLab 2026.0.0b73 (September 2026)

Security: scripts and add-on modules only run after your approval

 Python scripts contained in a worksheet only run after you have marked them as trusted – following the model you know from Office macros. The approval is bound to the script content and expires when the text is changed. Several new scripts in one worksheet are listed in a single confirmation dialog; if you decline, you can still open the worksheet and approve the scripts individually later. Worksheets located in the DASYLab program folder (e.g. the shipped examples) are considered trusted; every such approval is logged in the console. A second path in the stored module data, through which foreign code could run while loading a worksheet, has been closed as well.

Add-on libraries listed in the configuration file are checked before loading (program folder, measX signature or earlier approval – otherwise a confirmation dialog). Such entries may now point to an arbitrary path; loading of all program libraries has been hardened against planted files of the same name.

User interface and display scaling

- DASYLab now follows the Windows display scaling (125/150/200 %) throughout – including changes at runtime and moving a window to a monitor with a different scaling: function bar, module bar, user-defined buttons, tree views (with a module icon per entry), splash screen, program icon and script editor.
- The channel bar in the module dialogs (connector icons, channel numbers, arrows) scales in all modules and is precisely aligned for the first time.
- The toolbars of the display modules received the same icon quality; for Y/t, X/Y and polar plot, toolbar and fonts also follow a monitor change at runtime.
- The Configurator and the Reference Curve Editor follow the display scaling as well and use an updated graphics base.

Measurement and operation run separately

- Measurement data is passed on independently of the user interface: menus, dialogs and moving windows no longer slow down worksheet execution.
- A slow display no longer slows down the measurement chain: all data blocks are consumed; during fast measurements the display combines several blocks into one picture while the data itself continues completely.
- During worksheet execution, DASYLab raises the process timer resolution (1 ms instead of about 15 ms). Effect: precise wake-up times of the software time bases with small block sizes, plus a smoother display refresh (33-ms update cycles of the visualization modules, block symbol animation).

Display modules: flicker-free, smoother and faster

-  Y/t chart, waterfall, color sonogram,  list display and the four instruments  status lamp,  analog meter,  bar graph,  digital meter) draw with a new technique: no flickering, no fraying at scales and tick marks; needles, curves and arcs are smoothed, grids deliberately stay pixel-exact.
- Considerably less CPU load – most of all for noisy signals with many samples per pixel column: the Y/t chart needs about a quarter of the previous drawing time there. Every incoming block is drawn, without skipping blocks.
- Circle markers and bar display run at full frame rate; resizing the waterfall and color sonogram windows is smooth instead of sluggish. Configured line widths and dash patterns are drawn correctly again.
-  Chart recorder: the time axis moves evenly instead of in jerky steps, the curves of several channels no longer shift against each other, tick marks and fonts follow the display scaling. A frozen display no longer blocks the data flow: recording continues fully in the background and downstream modules keep receiving data. The frozen display keeps the complete state from the moment of freezing for as long as you like; when you unfreeze, the course recorded in the meantime is adopted.
- Cosmetics: the white stripe below the color sonogram is gone, the lower right frame corner is closed (Y/t, X/Y, polar plot), displays without a Y axis have equal margins.

Signal processing: filter and window with live preview

-  Digital Filter: the frequency response (magnitude and phase) is shown as a live preview while you set it up and follows every input immediately. In addition, the filter types band-pass and band-stop are available for all characteristics (Butterworth, Bessel, Chebyshev).
-  Universal Filter: the filter wizard now also designs IIR filters (Butterworth) via a graphical interface and shows the magnitude and phase response as a live preview, switchable between a logarithmic and a linear frequency axis.
-  Data Window: the selected window function is shown as a curve before the measurement; the overlap with the next window is visible as a gray outline, so that the choice and effect of the windowing are directly apparent.
-  Universal Filter: in the FIR filter design the stop-band attenuation again takes full effect. In certain cases it was previously much too low; designed FIR filters now attenuate the stop band again as intended.

Layout pages

- Graphs and the entire page rendering (decoration, tables, variable and text links) are flicker-free; a layout page no longer slows down the measurement chain.
- The font size now follows the monitor and the zoom factor – on high-resolution monitors it used to be about a third too small (see [Check after upgrading](#)).
- A layout exported as an image (clipboard or file) has the correct physical size on every monitor.

Further improvements

-  The network function (client/server communication) can be switched on and off and is off by default – no more Windows Firewall prompt at first start. Enabling it in the global settings takes effect without a restart.
-  Script module: scripts containing umlauts or Japanese characters are transferred correctly on export, import and saving; the selection lists in the configuration dialog – including self-registered time bases – display special characters correctly. These characters are now also displayed correctly in the script editor itself, and saving a worksheet with such characters in the script runs reliably without aborting. Older worksheets also load when a script module has gained new settings in the meantime.
-  FFT: the Nyquist line can be output per channel.
-  Serial input modules: When a master module is deleted, its channel extensions no longer remain silently inoperable. DASYLab points this out when loading; the channel assignment is kept and can be reconnected to a new master.
-  Slider: the value is now also output continuously while you drag the self-drawn slider and rotary controls, not only when you release the mouse; layout links follow along.
-  Switch: short pulses now visibly afterglow in the display, so that an on/off pulse remains recognizable even with large blocks (the output data was always correct). A momentary switch no longer emits an unwanted pulse at measurement start.
-  Relay with control input: the replacement value for blocked data can now also come from a global variable (right-click in the "Replace with" field), not only as a fixed number.
-  NI-DAQmx driver: fundamentally renewed internally and more robust against invalid input and overlong texts.
-  The communication library used for sending e-mail has been brought up to date.
- The window title wrongly showed "Basic Net" for a Basic license.
- When closing DASYLab, lone connection lines of the worksheet remained briefly visible while the settings were being saved; this area is now cleared properly.

Check after upgrading

- Check existing layout pages with tightly set texts once: the font size now follows the monitor and the zoom factor, so fonts on high-resolution monitors are displayed larger than before.
-  Universal Filter: the FIR filter design again attenuates the stop band at full strength. Worksheets that use a FIR filter designed in an earlier DASYLab version therefore filter differently than before – please check the results once.
-  Chart recorder: when the display is frozen, recording now continues in the background and downstream modules keep receiving data. If a worksheet previously relied on freezing to pause the data flow, please check this behavior.

DASYLab 2026.0.0b32 (July 2026)

Flexible term of the DASYLab license

DASYLab licenses can now be granted with flexible terms. To do this, the license's start month is specified in the serial number in addition to the duration (in weeks).

Updates and corrections

- Updated APIs of the CAN drivers
- NI-DAQmx: DASYLab driver module version 16.0; requires an installed NI-DAQmx version 9.3 or later
- Updated Microsoft Visual C++ runtime environment (Redistributable 2015–2022, x86, version 14.44)
- Many changes and adjustments to increase security
- The incorrect detection of Kvaser CAN or LIN devices has been fixed.
- The incorrect handling of time stamps in the CAN drivers has been fixed.
- Improved error handling when reading worksheet files (DSB/DSA), fixes discovered security vulnerabilities.
-  The integrated Python environment has been updated to version 3.12.10.

SmartMux

 Demultiplexing of SmartMux channels has been extended considerably. The demultiplex module extracts arbitrary channels from a SmartMux channel bundle anywhere in the worksheet, to be used as individual channels. The structure of the channel bundle is displayed and the user selects the channels to extract.

Known issues

- Depending on the operating system, graphics driver and number of monitors, DASYLab may number the monitors in a different order than Windows. Please use the function integrated in DASYLab to determine the order of the monitors and the monitor numbers. (Help >> Identify Monitors).
- If DASYLab is used under *Windows 10 version 1809*, then the **minimized** display windows are often not fully displayed. When creating a new display module, the minimized window may then not be visible at all. In this case, you have to make the window visible via *View/Restore Window* or the corresponding icon in the toolbar before you can use it. This is a bug of *Windows 10 version 1809*, which is fixed in more recent Windows versions.

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