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TELEMED Echo Wave II Software User Guide

Contents

Echo Wave II Software

TELEMED ECHO WAVE II QUICK START GUIDE, REV.E
Thank you for choosing TELEMED products! This Quick Start Guide will conduct you to system and software

setup.

Product Information

Echo Wave II is an ultrasound scanner device that comes with software for image and video capture. The device is powered via power supply and needs to be connected to a PC using a USB cable. The software allows users to select the user interface, create
shortcuts, and record long video loops with the 64-bit package. The device also includes Ultrasound Scanner Monitor utility icon in the tray bar that indicates that the drivers are installed properly, and the system is ready for use.

Product Usage Instructions

1. Ensure that your PC meets the hardware and software requirements as mentioned in the user manual.
2. Read the user guide for your device and Echo Wave II Software User Manual carefully located on the USB key in Instructions for Use Devices folder and Instructions for Use Software folder respectively.
3. Install TELEMED Drivers Package ver. X.Y.Z by running setup_tdp.exe from Installation packages TELEMED Drivers Package ver. X.Y.Z folder. Choose the scanner model you want to install and click Next >.
4. Install Echo Wave II Software by selecting the appropriate installation package from Installation packages Echo Wave II ver. X.Y.Z folder. For 32-bit system run setup_ew2.exe. For 64-bit capable system any of the installation packages can be used setup_ew2.exe or setup_ew2x64.exe. Choose "I agree to overwrite all presets and settings" and select the user interface you prefer. Click Next > and choose shortcuts creation method. Wait for all files to be copied and click Finish.
5. Connect the power cable to your device if the device is powered via power supply. Connect your device to PC with USB cable. Wait until Windows finishes setting up the device.
6. Make sure that Ultrasound Scanner Monitor utility icon in the tray bar is GREEN. This indicates that the drivers are installed properly, the device is connected to the USB port, powered, and the system is ready for start.
7. On the Windows desktop, find Echo Wave II icon and double-click it to launch the software.
8. The software will start-up in progress and will be ready for use. Further information and step-by-step instructions can be found in Echo Wave II Software User Manual located on this USB key.

Additional Recommendations for Cybersecurity
Configure MS Windows settings and monitor using Windows Security Audit. Turn on Microsoft Security Essentials, Windows Defender, and its updates. Configure direct e-mail sending feature of the ultrasound software only if you plan to use it and your computer is currently connected to the Internet.

Dear Customer,
Thank you for choosing TELEMED products!

This Quick Start Guide will conduct you to system and software setup.

1. Please ensure that your PC meets the following requirements:
   Hardware Requirements
   - Windows(R) operating system compatible desktop, notebook or Tablet PC
   - Intel chipset-based motherboard available USB 2.0 interface (3.0/3.1 interface for ArtUs system)
   - CPU i5/i7/i9 1.8 GHz or better
   - 2 GB RAM or more

- 2 GB free hard disk space display with 1024×768 resolution or higher; wide viewing angles and matte covering are recommended for better imaging; consider IPS/LPS/OLED technology, as example display adapter with CUDA support (optional, for NeatView image enhancement)
- TCO certified display certified for medical use computer power supply

  Software Requirements
- Windows 7 SP1, Windows 8, Windows 10 operating systems
- Microsoft .NET Framework 3.5.1

2. Please read carefully user guide according to your device. User guides are located on this USB key in Instructions for Use\Devices folder.

3. Please read carefully Echo Wave II Software User Manual. It can be found in Instructions for Use\Software folder.

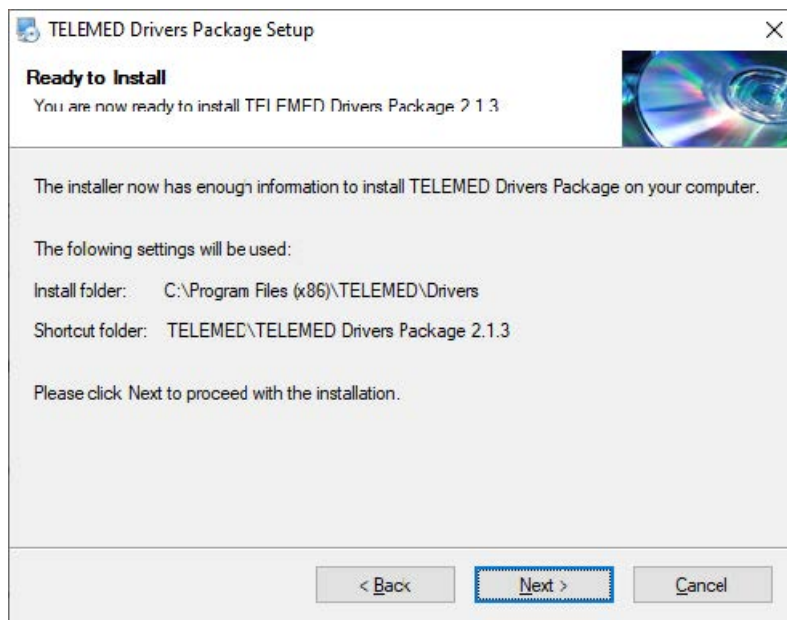## TELEMED DRIVERS PACKAGE AND ECHO WAVE II SOFTWARE INSTALLATION

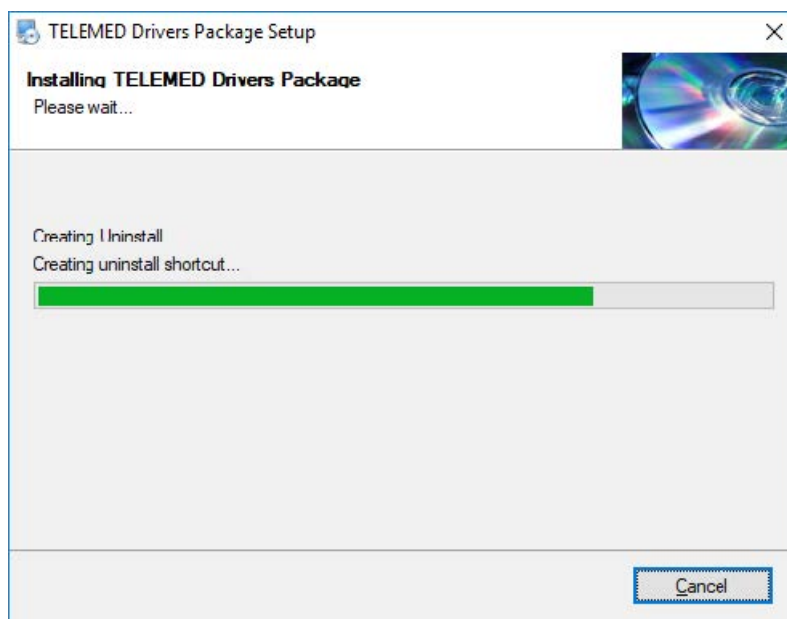1. Go to \Installation packages\TELEMED Drivers Package ver. X.Y.Z folder and run setup_tdp.exe
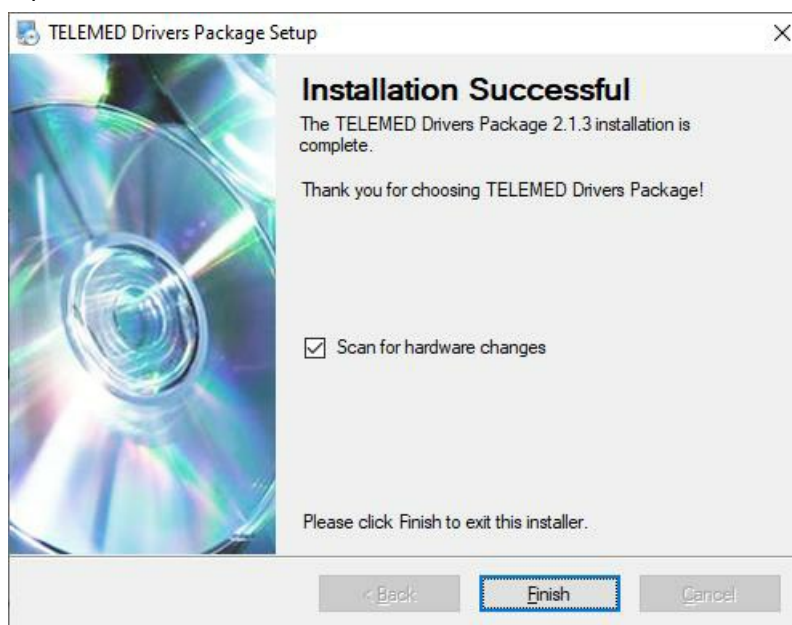

Installation windows will appear. Click "Next >"
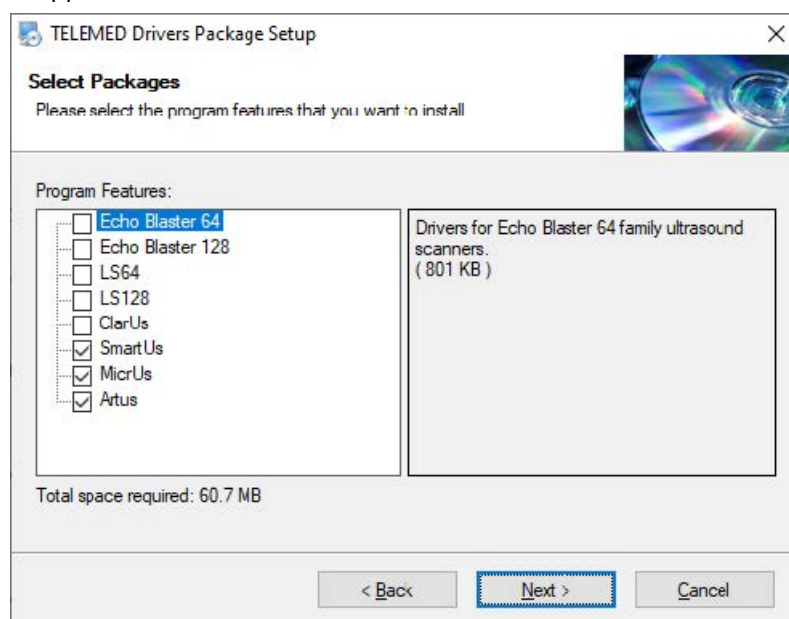
Choose scanner model you want to install, click "Next >"

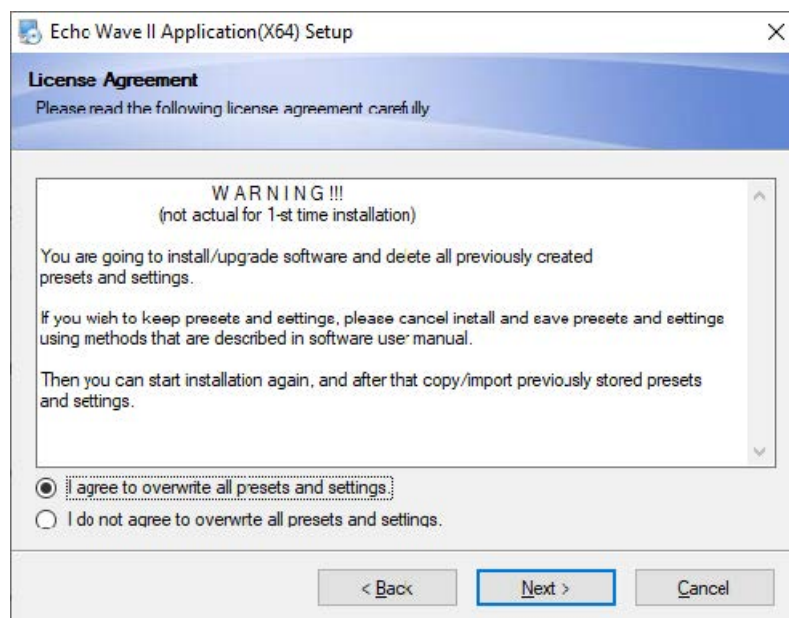Click "Next >"

Wait for all files to be copied…

Click "Finish".

2. Go to \Installation packages\Echo Wave II ver. X.Y.Z\ folder. Select appropriate installation package. For 32-bit system run setup_ew2.exe. For 64-bit capable system any of installation packages can be used
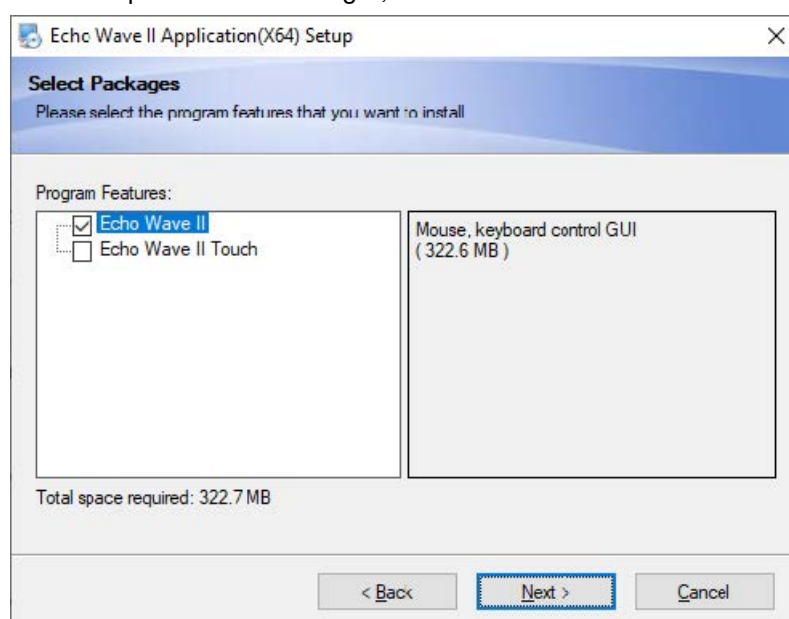
setup_ew2.exe or setup_ew2x64.exe. The main advantage of using a 64- bit package is the ability to record very long video loops.
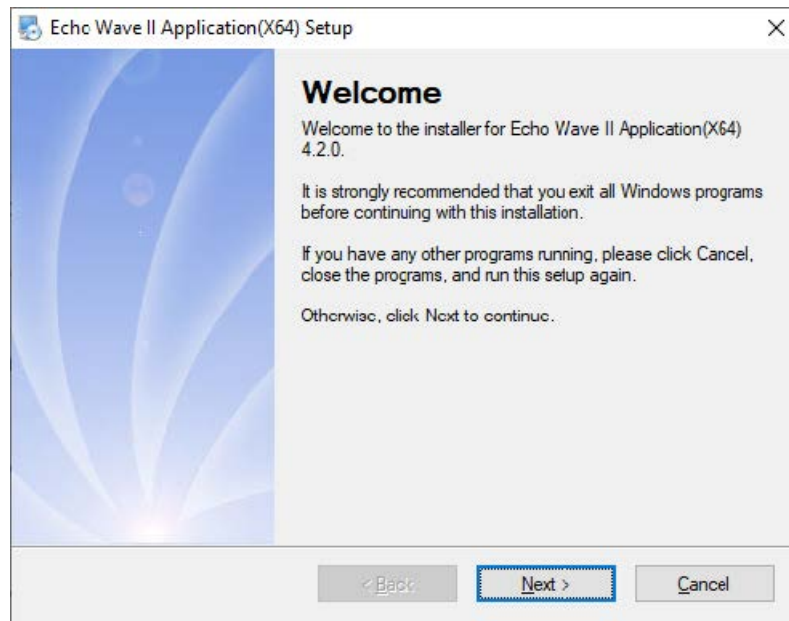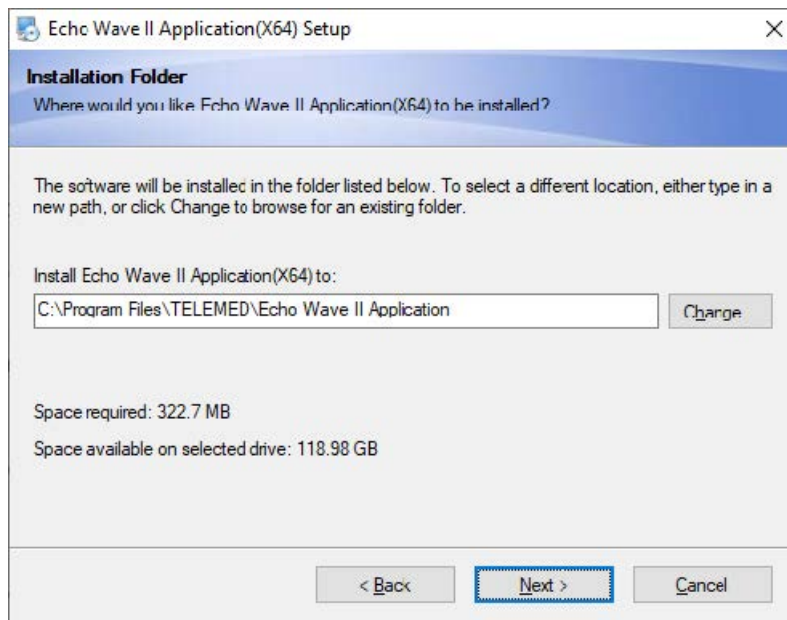

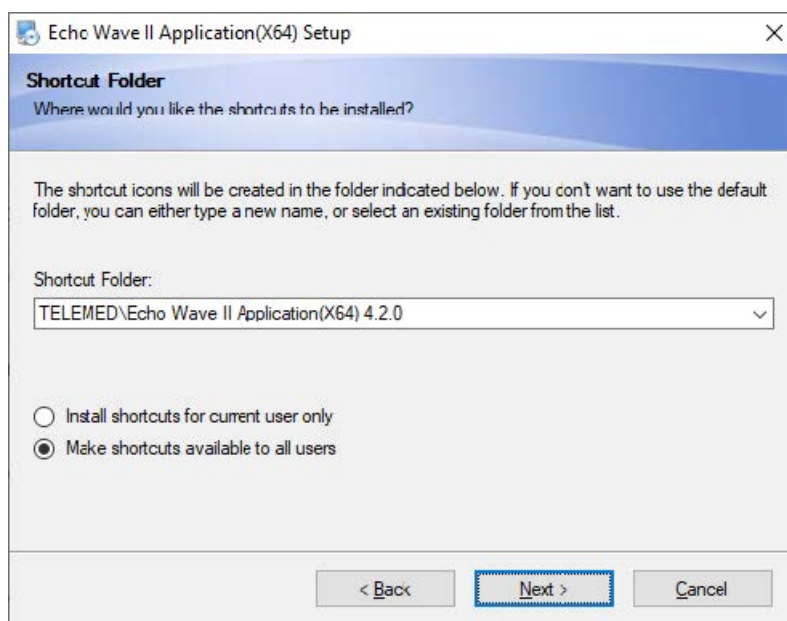
Installation windows will appear. Click "Next >"

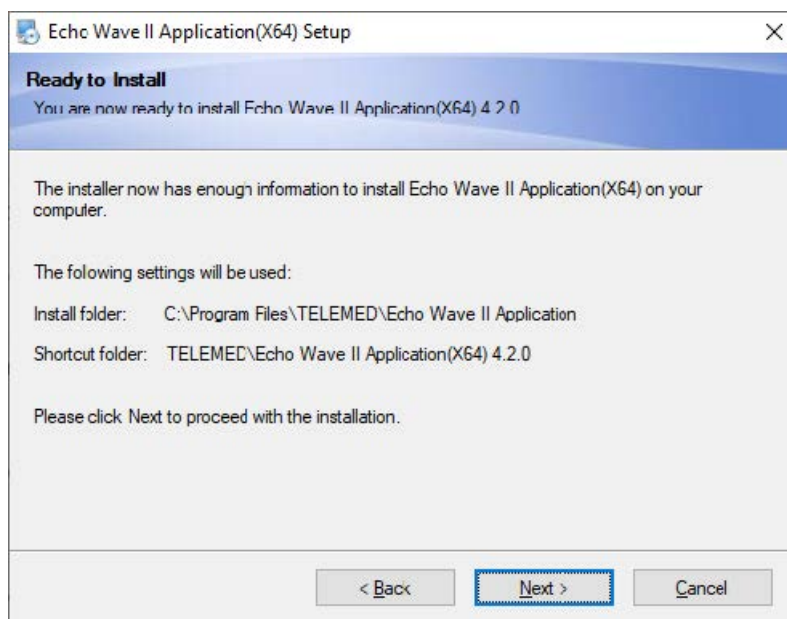Choose "I agree to overwrite all presets and settings", click "Next >" button

Select which user interface you prefer and click "Next>" button

Click "Next >" button

Choose shortcuts creation method and Click "Next >" button

Click "Next >" button
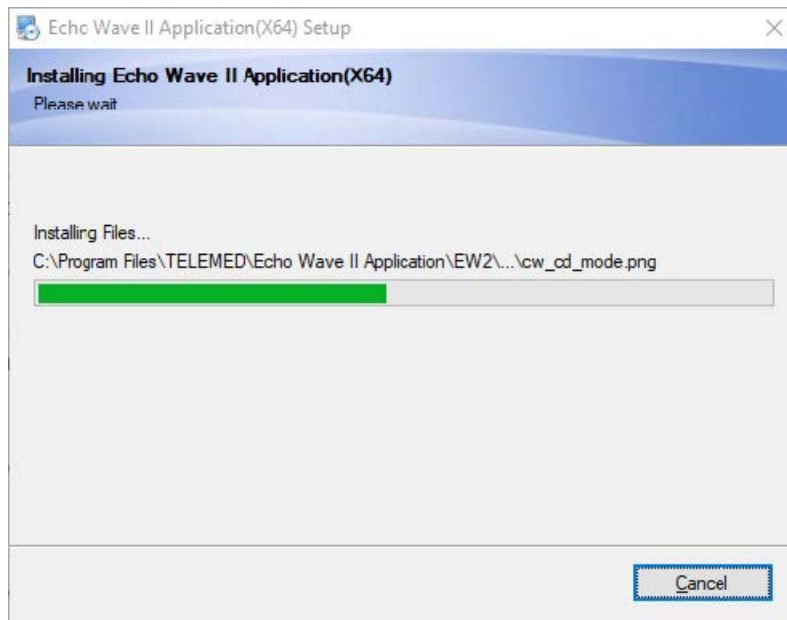
Wait for all files to be copied…
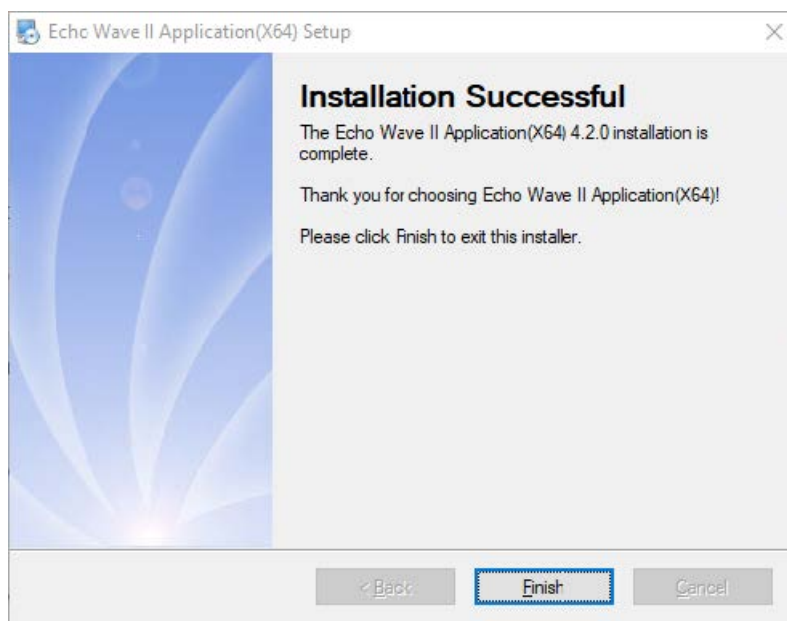
Click "Finish".

3. Connect power cable to your device if the device is powered via power supply.

4. Connect your device to PC with USB cable. Wait until Windows finishes setting up the device.

5. Make sure, that "Ultrasound Scanner Monitor" utility icon in tray bar is GREEN. This indicates, that the drivers are installed properly, device is connected to USB port, powered and system is ready for start.

Green icon – system ready to be started

Red icon – something is wrong:

For example: drivers were not properly installed, USB cable is not connected or system is not powered

6. On Windows desktop find "Echo Wave II" icon, double click it.

"Echo Wave II" software launch icon

Software start-up in progress
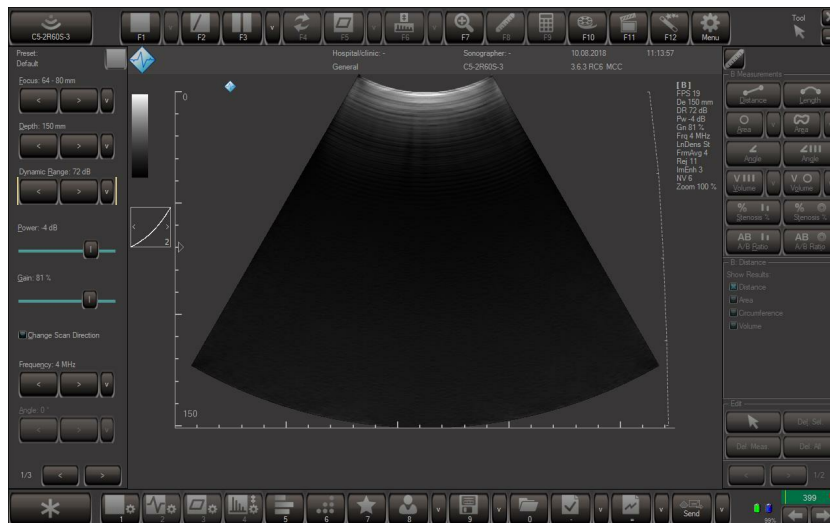
Software / system ready for use.

Note: Picture shows image from convex probe connected to the scanner

7. Further information and step by step instructions can be found in Echo Wave II Software User Manual located on this USB key.
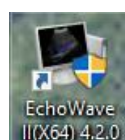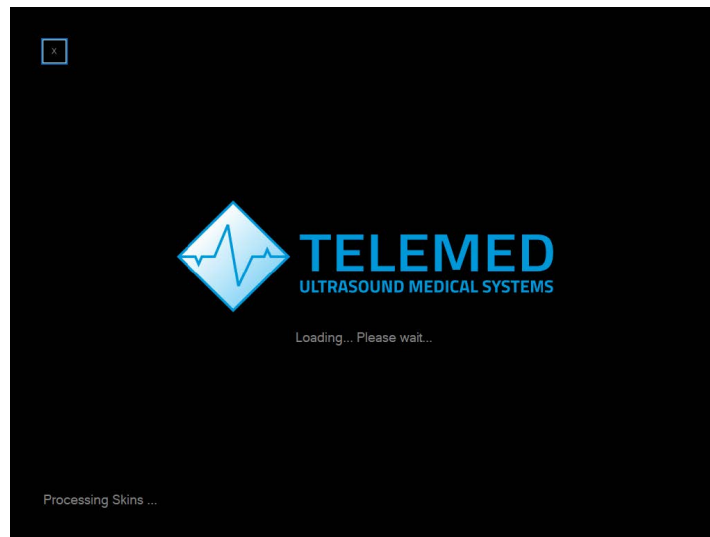
ADDITIONAL RECOMMENDATIONS FOR CYBERSECURITY

MS Windows Configuration:

- **E-mail**

  Configure the e-mail program (for example Outlook Express). It is necessary for normal operation of the direct e-mail sending feature of the ultrasound software.

  Note: You do not need to configure the e-mail software if you are not planning to use it or if your computer is not currently connected to the Internet.

- **Windows account**

  For each system user must be created Windows account with separate login and password.

- **Create a local user account**

  https://technet.microsoft.com/en-us/library/cc770642(v=ws.11).aspx

- **Create a user account in Windows**

  https://support.microsoft.com/en-us/help/13951/windows-create-user-account

- **User Accounts**

https://technet.microsoft.com/en-us/library/dd277409.aspx

- **Windows security**

  It is strongly recommended that in Windows security will be strengthened using Security Policy Settings and monitored using Windows Security Audit.

- **How to Configure Security Policy Settings**

  https://technet.microsoft.com/en-us/library/dn135243(v=ws.10).aspx

- Security Auditing Overview

  https://technet.microsoft.com/en-us/library/dn319078(v=ws.11).aspx

- **Antivirus**

  It is strongly recommended that on computers will be installed antivirus software, for example, Microsoft Security Essentials, Windows Defender, and will be turned on its updates.

- Microsoft Security Essentials Download

  https://support.microsoft.com/en-us/help/14210/security-essentials-download

- **Windows Defender**

  https://support.microsoft.com/en-us/help/17464/windows-defender-help-protect-computer

- Updating your Microsoft antimalware and antispyware software

  https://www.microsoft.com/security/portal/definitions/adl.aspx

- **Firewall**

  It is strongly recommended that on computer will be turned on Windows Firewall.

  How to Configure Windows Firewall on a Single Computer

  https://msdn.microsoft.com/en-us/library/cc875811.aspx

- **Windows updates**

  It is strongly recommended that computers will have turned on Windows Updates.

  Windows Update: FAQ

  https://support.microsoft.com/en-us/help/12373/windows-update-faq

- **Network communication**

  It is strongly recommended that for network communication will be used secure Virtual Private Networks (VPN).

  Virtual Private Networks

  https://technet.microsoft.com/en-us/library/cc977889.aspx

- **Digital Signature**

  Ultrasound software distribution packages (setup(s)) and essential ultrasound software parts (drivers) are digitally signed.

  This means that the user can check file properties and see if file signature (digital certificate) is valid and what company signed that file. 64-bit Windows operating systems does not load drivers that do not have signature or signature is invalid. This means that ultrasound scanning will not be started (driver will not be loaded) if it is modified by any malware.

- **Digital Signatures for Kernel Modules on Systems Running Windows Vista**

  https://msdn.microsoft.com/en-us/library/bb530195.aspx

- **Digital signatures and certificates**

  https://support.office.com/en-us/article/Digital-signatures-and-certificates-8186cd15-e7ac-4a16-8597-22bd163e8e96

- **Windows AppsLocker**

https://technet.microsoft.com/en-us/library/dd759117(v=ws.11).aspx

- **Encrypted file system.**

  It is strongly recommended that computer data will be protected by using encrypted file system
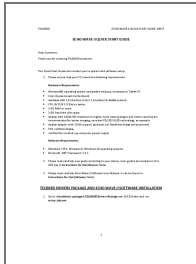
- **The Encrypting File System**

  https://technet.microsoft.com/en-us/library/cc700811.aspx

- **BitLocker**

  https://technet.microsoft.com/library/cc732774.aspx

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Company address: Savanoriu ave. 178A, Vilnius LT-03154, Lithuania Internet: **www.pcultrasound.com**,
www.telemed.lt
Information, sales e-mail: **info@pcultrasound.com**, i**nfo@telemed.lt** Technical Support e-mail:
support@pcultrasound.com, **support@telemed.lt**

Documents / Resources

[TELEMED Echo Wave II Software](#) [pdf] User Guide
Echo Wave II Software, Echo Wave II, Software

References

- ◈ **[Telemed - Ultrasound Medical Systems](#)**
- 🌐 **[Telemed - Ultrasound Medical Systems](#)**
- ▦ **[Digital Signatures for Kernel Modules on Systems Running Windows Vista | Microsoft Learn](#)**
- ▦ **[How to Configure Windows Firewall on a Single Computer | Microsoft Learn](#)**
- ▦ **[Windows Update: FAQ - Microsoft Support](#)**
- ▦ **[Create a user account in Windows - Microsoft Support](#)**
- ▦ **[What is Microsoft Security Essentials? - Microsoft Support](#)**
- ▦ **[Stay protected with Windows Security - Microsoft Support](#)**
- ▦ **[Microsoft Support](#)**
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- ▦ **[Windows AppLocker | Microsoft Learn](#)**
- ▦ **[Microsoft Learn: Build skills that open doors in your career](#)**
- ▦ **[How to Configure Security Policy Settings | Microsoft Learn](#)**
- ▦ **[Microsoft Learn: Build skills that open doors in your career](#)**
- ▦ **[Security Auditing Overview | Microsoft Learn](#)**

- ■ **Microsoft Learn: Build skills that open doors in your career**
- ■ **BitLocker Drive Encryption Overview | Microsoft Learn**
- ■ **Latest security intelligence updates for Microsoft Defender Antivirus and other Microsoft antimalware - Microsoft Security Intelligence**

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