# ECHO WAVE II QUICK START GUIDE

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 1024x768 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**

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



Installation windows will appear. Click "Next >"

🌄 TELEMED Drivers Package Setup	×
Select Packages Please select the program features that you want	to install.
Program Features:	Drivers for Echo Blaster 64 family ultrasound scanners. ( 801 KB )
< Bac	k Next > Cancel

Choose scanner model you want to install, click "Next >"

TELEMED Drivers Package Setup	×
Ready to Install You are now ready to install TELEMED Drivers Package 2.1.3	
The installer now has enough information to install TELEMED Drivers Packa	age on your computer.
The following settings will be used:	
Install folder: C:\Program Files (x86)\TELEMED\Drivers	
Shortcut folder: TELEMED\TELEMED Drivers Package 2.1.3	
Please click Next to proceed with the installation.	
< <u>B</u> ack <u>N</u> ext >	Cancel
Click "Next >"	
TELEMED Drivers Package Setup	×
Installing TELEMED Drivers Package Please wait	
Creating Uninstall Creating uninstall shortcut	
	<u>C</u> ancel

Wait for all files to be copied...



Click "Finish".

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 >"

n Echo Wave II Application(X64) Setup	×
License Agreement Please read the following license agreement carefully.	
W A R N I N G !!! (not actual for 1-st time installation) You are going to install/upgrade software and delete all previously created presets and settings. If you wish to keep presets and settings, please cancel install and save presets and settings using methods that are described in software user manual. Then you can start installation again, and after that copy/import previously stored presets and settings.	~
<ul> <li>● I agree to overwrite all presets and settings.</li> <li>O I do not agree to overwrite all presets and settings.</li> <li>&lt; <u>B</u>ack <u>N</u>ext &gt; <u>C</u>ancel</li> </ul>	

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

🛃 Echo Wave II Application(X64) Setup	×
Select Packages Please select the program features that you want	to install.
Program Features:	Mouse, keyboard control GUI ( 322.6 MB )
< <u>B</u> ac	k <u>N</u> ext > <u>C</u> ancel

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



Click "Next >" button

🛃 Echo Wave II Application(X64) Setup	×
Shortcut Folder Where would you like the shortcuts to be installed?	
The shortcut icons will be created in the folder indicated below. If you don't want to use the defaul folder, you can either type a new name, or select an existing folder from the list.	t
Shortcut Folder:	
TELEMED\Echo Wave II Application(X64) 4.2.0	~
<ul> <li>Install shortcuts for current user only</li> <li>Make shortcuts available to all users</li> </ul>	
< <u>B</u> ack <u>N</u> ext > <u>C</u> ancel	

Choose shortcuts creation method and Click "Next >" button

🌄 Echo Wave II	Application(X64) Setup	×
Ready to Insta You are now rea	II dy to install Echo Wave II Application(X64) 4.2.0	
The installer now computer.	/ has enough information to install Echo Wave II Application(X64) on your	
The following se	ttings will be used:	
Install folder:	C:\Program Files\TELEMED\Echo Wave II Application	
Shortcut folder:	TELEMED\Echo Wave II Application(X64) 4.2.0	
Please click Nex	t to proceed with the installation.	
	< <u>B</u> ack <u>N</u> ext > <u>C</u> ancel	

Click "Next >" button

Echo Wave II Application(X64) Setup	$\times$
Installing Echo Wave II Application(X64) Please wait	
Installing Files C:\Program Files\TELEMED\Echo Wave II Application\EW2\\cw_cd_mode.png	
<u>C</u> ancel	

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.





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 <u>https://www.microsoft.com/security/portal/definitions/adl.aspx</u> Firewall

It is strongly recommended that on computer will be turned on Windows Firewall. How to Configure Windows Firewall on a Single Computer <u>https://msdn.microsoft.com/en-us/library/cc875811.aspx</u>

• 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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