

Pulsenmore ES

Clinician Manual



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Notice Page

Disclaimer

The Pulsenmore™ ES Ultrasound Device utilizes a cellular phone in order to transmit an ultrasound image from afar to a physician and/or qualified sonographer, via cloud services.

The device is neither certified nor intended to detect defects, replace a routine scan and/or pregnancy tests of any kind or replace medical consultation or a visit to the emergency room/clinic.

The decision whether the device should be used in a particular case, and the decision regarding the medical consequences of the aforementioned use are the clinicians alone.

Do not use the device without a physician's supervision, as this may lead to an incorrect diagnosis or interpretation of the test findings.

Do not draw conclusions and/or take action independently based on the findings of the ultrasound device unless under direct medical supervision.

In any case of pain, bleeding, preterm rupture of membranes, suspicious vaginal discharge, fear of absence of fetal movements and/or change in fetal movements, deterioration of physical condition or any other case that requires it seek medical attention immediately.

The Pulsenmore™ company is not responsible for any medical service provided as an accompaniment to the device, nor is it responsible for any medical decisions and instructions regarding the use of the device and the tests conducted on it (e.g., wrong diagnosis, follow-up, and treatment). Pulsenmore™ is not responsible for any use of the ultrasound device contrary to the terms of use.

Patents and Copyrights

This device is protected by patents and copyrights.

Listing of applicable patents: <https://www.pulsenmore.com/Patents>

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Overview

Ultrasound scans are recommended for fetal monitoring during pregnancy. Over the years, this technology has become the gold standard for routine check-ups, close surveillance and first aid for pregnant women worldwide.

The **Pulsenmore ES** ultrasound system is designed to enable the healthcare professional (HCP) to review fetus ultrasound scans performed by the patients at home.

About this manual

This manual is intended for the healthcare professional subscribing their patient with the **Pulsenmore ES** ultrasound system. It describes the system and its principles of operation. This manual provides instructions for using the device and the dedicated software application to review the ultrasound scan remotely.

This **Pulsenmore ES** Clinician's manual includes:

- Important safety information about the Pulsenmore ES device
- Instructions for how to use the Pulsenmore ES Clinician's Dashboard
- Troubleshooting information

If you have any questions, contact your local Service Provider.

You may also visit www.pulsenmore.com

Introducing the Pulsenmore ES ultrasound system

Intended Use

The **Pulsenmore ES** ultrasound device is a software-based ultrasound imaging system intended for non-invasive fetal monitoring.

The device is intended to be used by patients in a non-clinical environment.

Contraindications

No known contraindications.

The Pulsenmore ES ultrasound system

The **Pulsenmore ES** system consists of an ultrasound device, a mobile application, and the clinician web application. The device captures the ultrasound images and transfers them to the clinician web application via a designated mobile app.

Safety information

General

The **Pulsenmore ES** ultrasound device is designed to be used in a residential home environment / hospital / professional healthcare facility.

The **Pulsenmore ES** ultrasound device is designed for a single patient use to prevent cross contamination.

The **Pulsenmore ES** ultrasound device has no screen of its own. When a phone is connected, and scan is performed, the device presents the resulting ultrasound image on the smartphone screen.

The **Pulsenmore ES** system design applies ALARA "As Low As Reasonably Achievable" principle as follows:

- The system provides 2D imaging only (B mode) which provides anatomical imaging.
- The duration of each scan is limited (App-Guided scan) and up to the clinicians discretion (Clinician-Guided scan) (i.e., up to 3 minutes).
- Each scan is enabled only upon medical professional approval.
- Pre-defined scan protocol to ensure an optimized procedure.



CAUTION

When using the ultrasound device apply the principle of ALARA (As Low As Reasonably Achievable)

The images and data acquired using this device are to be interpreted only by a qualified medical professional.

If the performance of the **Pulsenmore ES** ultrasound device is affected by other equipment, the presented ultrasound image quality might be affected. In this case, the user should stop the scan and move away from the interfering equipment. As the system is used for indicative purposes only, no essential performances were defined.

The maximum use of the device is 150 minutes throughout the entire pregnancy period for both App-Guided and Clinician-Guided scans.

Safety conventions

This clinician manual is intended to assist in the safe and effective operation of the **Pulsenmore ES** ultrasound system. It is important that all users review and understand all instructions in this clinician manual before operating the device, paying careful attention to the warnings and cautions throughout the manual. The following conventions are used throughout this manual to highlight safety concerns.

**WARNING**

Conditions, hazards, or unsafe practices that may result in serious personal injury or death.

**CAUTION**

Conditions, hazards, or unsafe practices that may result in minor personal injury, damage to the device, or loss of data.

Ultrasound Risks

Ultrasonic waves can slightly heat body tissue. While some warming may be normal, we recommend that if the device becomes warm during the scan, allow it to cool down before use.

**WARNING**

Before using the system, read these warnings.

Do not use the system for purposes other than those intended and expressly stated by Pulsenmore™. Use the device according to the provided instructions.

Do not operate this system in the presence of flammable gases or anesthetics as this can increase the risk for explosion.

Do not dispose of the device (or any parts of it) with industrial or domestic waste. Contact your service provider for your local disposable method. Avoid using the device in any case of damaged device/package.

Safety information

For device safety information see the **Pulsenmore ES** user manual






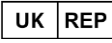




NOTES

For “Safety - Declarations, recommendations and test specifications” please refer to [Appendix - Safety](#)

For regulatory reasons, the device should not be used outside of the country of purchase.

Glossary of symbols

Symbol	Title and description
	Warning Information essential to your safety.
	Caution Information needed to protect or avoid damaging the product (hardware and software).
	Manufacturer Identifies the legal manufacturer.
	European Authorized Representative Indicates the Authorized European Representative.
	Swiss Authorized Representative Indicates the Swiss Authorized Representative.
	UK Authorized Representative Indicates the United Kingdom Authorized Representative.
	European conformity Indicates that the product complies with EU regulations.
	QR / Data Matrix Barcode Automatic identification and data capture symbol that provides product information (manufacturer, expiration date etc.)

Clinician Dashboard

The Clinician Dashboard is a secure location that allows you to generate Keys for patients, review their scans, and interact with patients using the Clinician-Guided scan.

Login

Use the following URL to launch the Clinician Dashboard:

<https://webviewer.pulsenmore.com/>

To login to the Clinician Dashboard, you will be requested to sign in using the credentials provided.

- Enter your email and password, you can choose to stay signed in.
- Please note that after 15 minutes of inactivity the system will automatically log off and you will need to re-enter your credentials to log in
- Once logged in, you will be able to access the clinician dashboard functionality

Scan Review Dashboard

The Scan Review Dashboard enables you to securely log in using credentials and to view video scans recorded by your patients. When logging into the site, the medical assessments tab opens with the default settings as shown in the picture below.

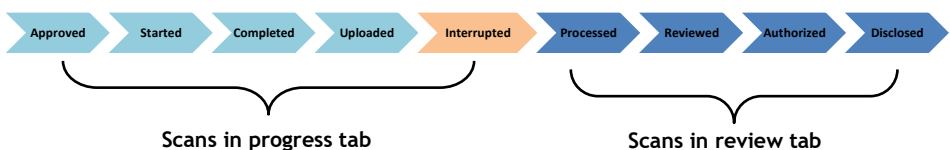
The screenshot shows the main interface of the Pulsenmore ES application. At the top, there is a search bar and a 'Time' filter set to 'Last 14 days'. Below this, there are four tabs for 'Processed', 'Reviewed', 'Authorized', and 'Disclosed', each with a notification icon. The main area contains a table with columns for 'Review Status', 'Patient', 'Key', 'Instance', 'Scan Status', 'Last Updated', and 'Files'. The table lists several scan entries with their respective details. At the bottom right, there is a 'WAITING ROOM' button. A red dashed box highlights the top navigation area, and another red dashed box highlights the 'WAITING ROOM' button. A red label 'Waiting room' points to the button.

Filtering scan menu

As a clinician, you can filter the video scans according to your patients, their Key, time frame, or procedure status. The filter selections are additive.

This close-up shows the top navigation bar of the application. It includes a search bar, a 'Time' dropdown menu set to 'Last 14 days', a 'Procedure Status' dropdown menu, a 'Refresh' button, an 'Administration Panel' button, and a 'Log out' button. Red dashed boxes highlight these elements, and labels below the bar identify each component.

- Search bar - entering a specific patient will filter the relevant video scans only, by the time frame chosen.
- Time frame - selecting the time filter opens a dropdown list of optional time frames. After selecting the relevant one, the video scans will be filtered by the time frame.
- Procedure statuses - When a patient starts a scan, the scan goes through several phases before becoming available for your review.



In the clinician dashboard, you will be able to select a tab that shows:

- **Scans in progress** - Video scans are NOT ready for review.
- **Scans in review** - Default display, video scans ARE ready for review or disclosed.
- **Scans require attention** - Some of the results were found abnormal/ not observed.



Scans in progress tab:

On this tab you will be able to see all the procedures that are in progress - from approved to uploaded, during a selected time frame chosen (For more information, refer to "Time Frame").

- **Approved** - Scan request was approved.
- **Started** - User has started the scan.
- **Completed** - User completed all scan steps.
- **Uploaded** - Video scans were completely uploaded to the cloud.
- **Interrupted** - Scan was interrupted. The video scans were not uploaded to the cloud and will not be available for you to review. (For more information refer to "Software alerts").

Scans in review tab:

Processed - Video scans that are available for you to review. The red notification badge indicates the number of scans within this status.

Reviewed - Video scans were reviewed. (For more information refer to Review status").

Authorized - You have reviewed the recorded scan results and approved their status.

Disclosed - Video scans whose results were disclosed to the patient (in default display, this option is not on chosen).

**NOTES**

Clicking on the icons of this bar will reveal/hide the video scans under the relevant status.

The default display is presenting video scans in “Processed”, “Reviewed” and “Authorized” statuses.

Scans require attention tab:

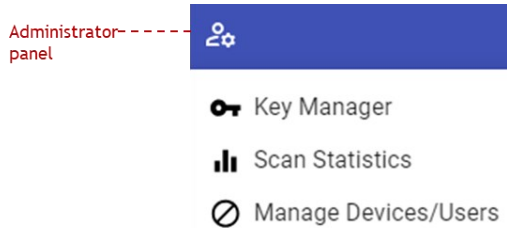
Video scans will appear under this tab only if one or more of the results (fetal heartbeat/movement or amniotic fluid amount) were abnormal/not observed and not disclosed by you to the patient. The review process stays the same.

These video scans will also appear in the upper part of the “Medical assessments” tab, so it will be more noticeable and get higher priority.

Refresh - Pressing on this button will refresh the website to default view (medical assessments tab).

Administration Panel

Clicking on the “Administration Panel” will open a dropdown list, with three options:



Key Manager

As the clinician, you are required to provide the patient with a Key for both App-Guided and Clinician-Guided scans. Make sure to use a name that can uniquely identify the desired patient for future interpretation.

To make a Key:

1. Click KEY MANAGER
2. Then click on the + NEW icon to open a window that allows you to choose the appropriate scan properties
3. Once all the scan properties are added, click CREATE on the bottom of the window
4. This will generate a QR code
5. Click the QR code to copy it to your clipboard (you can also copy the Key alphanumeric code)

Share the QR code and / or Key code with the patient

Scan Statistics


A document that is produced with detailed data regarding patient scans and clinician reviews

To create an Excel sheet report with scan statistics:

- Click on “SCAN STATISTICS”
- Select the dates for the report you want to create (max range is 30 days)
- Select “Generate a report”

Manage Devices/Users

To restrict or block access to **Pulsenmore ES** services for specific entities, such as devices or users, follow the steps outlined below:







- Press the 
- Enter the entity type; device/user, and enter their ID.
- In the main view you can see all the entities you have blocked, filtered by Users or devices, with the possibility to unblock them.









NOTE

Please ensure that you are connected to a stable internet connection while accessing the Clinician Dashboard.

Review status table

Icon	Name	Explanation
	Waiting for review	Video scans were not reviewed yet
	Pending authorization	The timer represents that at least half of the time to disclose had passed
	Scan requires attention	Ultrasound results require attention
	Pending authorization	Ultrasound results are pending approval
	Results require attention	Ultrasound results require attention
	Technical issue	There is a technical issue with the video scans. This will appear in the ongoing procedures

Icon	Name	Explanation
	Normal results	Ultrasound results are normal
	Disclosed normal results	Ultrasound results are normal + disclosed (patient received review)
	Disclosed requires attention	Ultrasound results require attention + disclosed (patient received review)
	Disclosed technical issue	Technical issue with the video scans + disclosed (patient received review)
	Ongoing procedure	Video scans are not available for review yet
	inadequate video scans	The video scans are inadequate, not possible to review the results

Review status display

Pressing on the “Review status” headline will reverse the order.

Each procedure needs to be disclosed within defined range of time from upload. The time presented next to the review status represents the time that passed from upload.

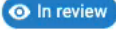

For more information refer to “Procedure statuses”.

Scan information categories

1. **Review status** - Refer to "Review status".
 2. **Patient** - A generated code that represents the patient creating the scans.
 3. **Key** - A generated code that represents a unique alphanumeric sequence that allows you and the patient to access App-Guided and Clinician-Guided scans. (For more information refer to "Error! Reference source not found.").
- **Instance** - The number of the current scan procedure out of all the number of scans available for the user.
 - **Scan status** - As in "Review status" - This field shows if the video scan status is: Processed / Reviewed / Authorized or Disclosed. Also, when hovering over the field, the date of each process is disclosed.
 - **Last updated** - Current status time. Pressing on the name of the field will rearrange the video scans by earliest/latest time.
 - **Files** - Represents the amount of the video scans recorded during the scan of this instance. Clicking on this number will open the "View a recorded scan".



NOTE

When a clinician is reviewing a scan, a review mark  will appear on other clinician's dashboard. When editing a scan, an edit mark  will be displayed. After making changes to the assessment of a scan, the scan will be indicated with an updated mark

 Updated

App-Guided Scan

View a recorded scan

To view a recorded scan:

- Type the Key or patient in the search bar (refer to "Search bar" for more information).
- Scroll down and choose the desired procedure.
- Expand the view by clicking on the file number, to access the recorded video scans.
- You can play, pause, and enlarge each video separately or play them all together.

Each recorded video can be viewed (streaming) or be downloaded in mp4/DICOM/WebM/RAW format for documentation in patient's EHR (Electronic Health Records).

Review a recorded scan

1. Scroll down to "Scan results", Click "Edit".
2. Select the relevant review for each of the following: Fetal heartbeat, fetal movement, amniotic fluid amount.
 - **Observed** - indication is normal and seen properly.
 - **Not observed** - indication is seen but it is not normal or not seen at all.
 - **Inadequate video scans** - video quality is poor, cannot tell if indications are normal.
3. Click on "Submit".

Authorize and disclose a recorded scan

After the contributor finished reviewing the scan,

1. The approver will go through the video scans again and enter their review.
2. Scroll down to "Scan results", Click "Edit".
3. Choose the result status under the "Authorize" section.
4. If the scan does not need further attention, change the disclosed status to "Yes".

Click "Submit".

Details about the scan



NOTE

In case of discrepancy between the contributor and approver reviews, a relevant message might appear.

If the scan needs further attention, do not disclose it. After disclosing a scan, it is not possible to review it again.

To view details about the scan:

1. Type the Key or the patient in the search bar.
2. Scroll down and choose the desired procedure.
3. Expand the view by clicking on the file number, which will access the recorded video scans.
4. Below the recorded video scans, there is the details tab:
5. Within this tab, you will be able to see user information, scan results, device, smartphone, and scan information.

Account PulsenmoreDemo	LMP 6/25/2024	PDF	DICOM	EDIT
Patient Jozzy	Gestational Age 18 2/7	Review		
Case Type Pregnancy		Fetal heartbeat	None ▾	
Case ID LMP_2024-06-25		Fetal movement	None ▾	
Priority Normal		Amniotic fluid volume	None ▾	
		Authorize		
		Assessment	None ▾	
		Disclose		
		Disclose	None ▾	

Download a scan

To download a recorded scan to a local storage:

- Click “Download” and choose the video for downloading.
- Additional download options will appear, choose your preferred settings and click “Download”.

Clinician-Guided Scan

A Clinician-Guided scan allows you to conduct a real-time appointment with the patient. During this meeting, the patient follows your instruction and guidance. As the clinician, you have full and sole control on starting and stopping ultrasound transmission, recording the ultrasound images, and modifying the ultrasound parameters (i.e., gain, depth, frequency etc.)

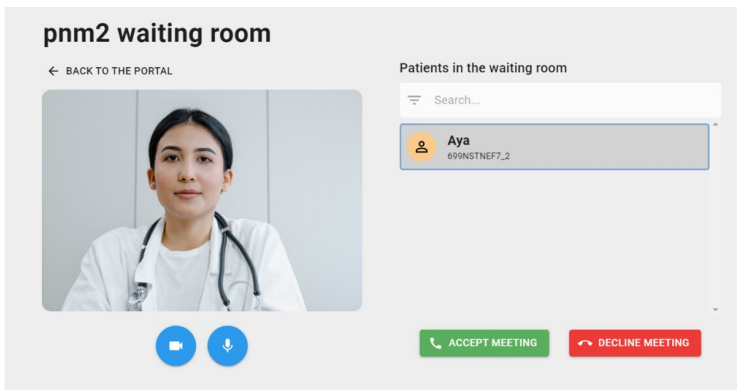
Start A Clinician-Guided Scan

To initiate a Clinician-Guided scan with the patient:

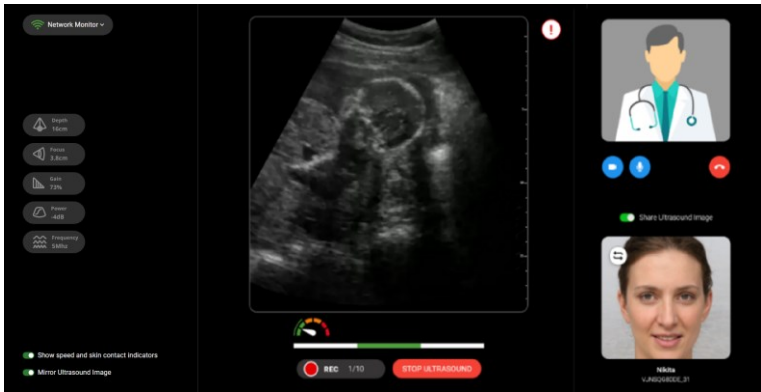
- Click on the “WAITING ROOM” button from the dashboard.



- Click on the desired patient then ACCEPT MEETING.



- The Clinician-Guided scan screen will open, and a call will be initiated.



- Once the scan screen opens, you will need to click START ULTRASOUND to begin the exam.
- Once the ultrasound scan begins, you will be able to adjust the ultrasound parameters, enable/disable the camera and microphone, and share ultrasound image with patient.



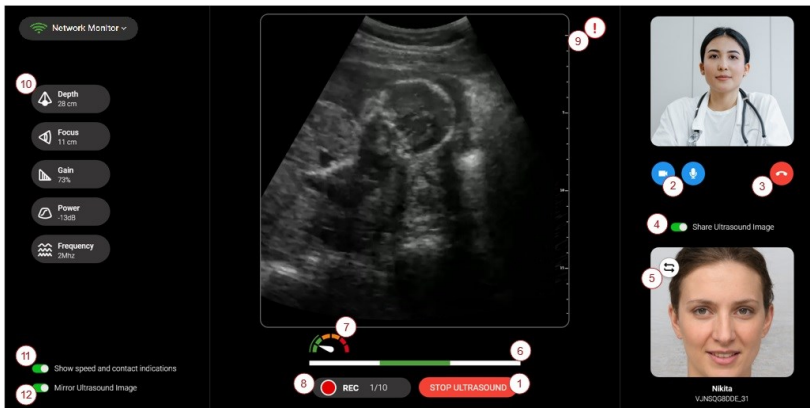
NOTES

You can only adjust the parameters before clicking the REC button, you cannot adjust parameters while the scan is recording.

Recordings must be a minimum of 2 seconds and a maximum of 60 seconds.

You can record up to 10 scans per call.

Meeting Controls



1. Click the **START ULTRASOUND** button to remotely start the scan. You can stop the scan at any time by clicking the **STOP ULTRASOUND** button
2. Enable/disable camera/microphone
3. Press the HANG UP button to end the session
Note: Do not exit the browser beforehand
4. Share the ultrasound image with the patient
5. Switch the patient screen display between the ultrasound and live video
6. Skin Contact Indicator shows the contact quality of the transducer with the skin. Red indicates poor contact or lack of gel with the left or the right side of the transducer. Guide the patient to improve the contact by either pressing or adding gel, until the bar turns green
7. Speed Control Indicator shows how fast the patient moves the ultrasound transducer during the scan. Red indicates faster than desired speed. Guide the patient to move the transducer more smoothly and slowly until the indicator turns green
8. Press RECORD to start/stop recording
9. Software alerts: When this symbol appears on the screen, clicking on it will present an alert for an issue the patient is having during the scan. In order to learn more about the alerts and how to solve them, refer to "Software alerts"
Note: After solving the issue, you will need to click the START ULTRASOUND button again to remotely start the scan

10. Adjust Ultrasound parameters. From the top down: DEPTH, FOCUS, GAIN, POWER, FREQUENCY (for more information refer to “Ultrasound controls table”)
11. Show or hide the patient skin contact and speed control indicators.
Note this selector doesn’t affect the patient view
12. Enable/disable mirroring the ultrasound image

Note this selector doesn’t affect the patient view

Ultrasound Controls






Change in any ultrasound, display, image, filters, or presets will affect the ultrasound image received.



NOTE

All parameters can be modified only by you during a Clinician-Guided scan.

Ultrasound controls table

Ultrasound Parameter	Symbol	Range	Description
Depth		9 - 28 cm	The Depth control adjusts the field of view and penetration of the ultrasound image. The measurement unit is centimeters [cm].
Focus		0.8 - 11 cm	The Focus control optimizes the ultrasound image by increasing resolution at a specific area. The focus is set by choosing the desired depth by the clinician. focusing depth is in centimeters [cm].
Gain		0 - 100 %	The Gain control adjusts the amplifications of the returning ultrasound echo signal. The measurements unit is in percent [%].
Power		(-20) - 0 dBm	The Power control adjusts the acoustic power of the ultrasound signal. Increasing the power allows greater penetration depth of the ultrasound signal. The measurements unit is decibels [dBm].
Frequency		2-5 MHz	The Frequency control adjusts the frequency of the ultrasound signal. The measurement unit is megahertz [MHz].

Skin Contact Indicator

The Skin Contact Indicator is provided during an App-Guided scan and when the ultrasound image is enabled on the patients' phone screen by you in a Clinician-Guided scan.

When this feature is enabled, the Pulsenmore™ app will alert the patient if skin contact with part of the device's transducer is not optimal.



Red on both sides - Poor skin contact on both sides of the transducer



Red on the right - Poor skin contact on the right side of the transducer



Red on the left - Poor skin contact on the left side of the transducer



Green in the middle - Good skin contact

To achieve effective images when scanning the patient should:

1. Perform the correction in the required direction until the bar turns green
2. Make sure there is always a sufficient layer of gel between the device and their skin
3. Ensure firm contact between the gel-covered transducer and their skin

Speed Control Indicator

During the scan you will instruct the patient where to place the device and how to move it. It is very important that they maintain slow and constant movement of the device over their abdomen. The Speed Control indicator at the bottom of the screen will point to the red bars if the patient is moving too fast, signaling that they should move the device slower.



Interpretation Display Requirements

To make a proper medical diagnosis, the clinical professional doing the analysis of the Ultrasound scan must meet the following means of display:

Specification	Value	Specification	Value
Resolution	1920x1080 or higher	Touchscreen compatibility	Not optimized
Contrast ratio	1:1000 or better	Screen Dimensions	24'' flat panel or higher. 12" laptop screen or larger

Additional Information

For further information, consult your Service Provider.

You and the patient should know the limitations, warnings, and precautions associated with the **Pulsenmore ES** system. In the first use of the **App-Guided scan**, the patient goes through video tutorial by the software to make sure they understand how to perform the scan safely and effectively.

During the **Clinician-Guided scan**, you should set clear expectations and instructions regarding the patient's upcoming scan. Patients should understand the system displays, indicators, and all troubleshooting solutions. You and the patient should know whom to contact for clinical and technical support.

All users will go through the same tutorial steps for both Clinician-Guided and App-Guided scans apart from scan steps which will be instructed for App-Guided scans only. During a Clinician-Guided scan, you will guide the patient how to perform the scan.

Troubleshooting

Software alerts

If the patient is having one of the following alert messages during a Clinician-Guided scan, refer to the following orders in the solutions column in order to assist. For further information, consult your Service Provider.



NOTE

For additional information see the **Pulsenmore ES** user manual.

Alert message (Clinician side)	Alert message (Patient side)	Issue	Solution
Ultrasound Device Error	Ultrasound Device Error	Appears when there is a problem in the inner device system (not the app)	Patient should disconnect and then reconnect the ultrasound device
Ultrasound Device Disconnected	Ultrasound Device Disconnected	Appears if the device has been disconnected during the scan	Patient should reconnect the ultrasound device
Smartphone Power Saving Mode	Power Saving Mode	Appears if the patient has a power saving mode ON in their phone	Patient should turn off smartphone power saving mode
New Ultrasound Device Detected	New Ultrasound Device Connected	Appears if the patient changed the device during the scan procedure	Patient should use the same ultrasound device during a scan
Ultrasound device is not verified	Ultrasound device is not verified	Appears when the patient connects a device to their phone, a compatible check is being made between the Key and the device on a remote server. When the server is not responding, or the patient has a problem with their network- the connected device will not be verified	Patient should reconnect the ultrasound device

Alert message (Clinician side)	Alert message (Patient side)	Issue	Solution
Smartphone Low Battery	Low Battery	Appears if during the scan the patient's battery went below 5%	Patient should charge the smartphone
Smartphone Low Storage Space	Low Recording Space	Appears if the available space in the patient's phone is below 1GB	Patient should free some space on the smartphone to enable recording
Ultrasound Device Overheated	Ultrasound Device Overheated	Appears if the device has reached 65°C (149 °F) during the scan	Patient should disconnect the ultrasound device and let it cool before reconnecting
Ultrasound Feed Quality Has Degraded	-	Usually FPS is around 20, the alert appears for FPS under 14	Please check your internet connection
Unrecognized Device Error	-	Appears when a not recognized alert is detected during the scan	Patient should look for a more specific error message on the mobile app
-	-	Image cannot be viewed	Make sure the device USB connector is properly inserted into the mobile phone USB socket Close and re-load the app.
-	-	App does not start	Close and re-load the app Turn off and restart mobile phone
-	-	Poor image quality	Make sure there is enough gel on the body scanned area Move away from transmitting equipment
-	-	Video scans are not sent to you	Make sure the mobile device is connected to the Wi-Fi or cellular network.

Appendix – Safety

Declarations, recommendations, and test specifications

B-Mode:

Acoustic Output Limit	
MI	0.4
TI	0.03

Expected Service Life

The product must be first used within two years of its manufacturing date. Once first used, the product can be used for a maximum period of six months. The service life of this product begins from the date of manufacture.

EMC Guidance

Guidance and Manufacturer’s Declaration - Electromagnetic emissions

Emissions test		Compliance
RF emissions CISPR 11	CISPR 11	Group1 Class B

Note: The **Pulsenmore ES** system uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.

The **Pulsenmore ES** system is suitable for use in all establishments, including domestic establishments and those directly connected to the public low voltage power supply network that supplies buildings used for domestic purposes.

Guidance and Manufacturer’s Declaration - Electromagnetic immunity

The **Pulsenmore ES** is intended for use in electromagnetic environment specified below. The customer or the user of the **Pulsenmore ES** should ensure that it is used in such an environment.

Warning: Use of the **Pulsenmore ES** adjacent to or stacked with other equipment should be avoided because it could result in improper operation.

Warning: Portable RF communications equipment (including, peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the **Pulsenmore ES**. Otherwise, degradation of the performance of this equipment could result.

IMMUNITY test	Standard	IEC 60601 test level	Compliance level
Electrostatic discharge (ESD)	IEC 61000-4-2	Air: $\pm 2kV, \pm 4kV, \pm 8kV, \pm 15kV$ Contact: $\pm 8kV$	Air: $\pm 2kV, \pm 4kV, \pm 8kV, \pm 15kV$ Contact: $\pm 8kV$
Power frequency (50/60 Hz) magnetic field	IEC 61000-4-8	30 (A/m)	30 (A/m)
Radiated electromagnetic fields (RF) including Proximity fields from RF wireless communications equipment	IEC 61000-4-3	3.0 V/m 0.15 to 80 MH 10.0 V/m 80 MHz to 2.7 GHz 80% AM at 1 kHz 27V/m, 385 MHz, 18 Hz Pulse Mod. 28 V/m, 450 MHz 1KHz FM 9V/m 710/745/780 MHz 217 Hz PM 28V/m 810/870/930 MHz 18Hz PM. 28V/m 1720/1845/1970 MHz 217 Hz PM 28 V/m 2.450 MHz 217 PM 9V/m 5240/5500/5785 MHz 217 PM	3.0 V/m 0.15 to 80 MH 10.0 V/m 80 MHz to 2.7 GHz 80% AM at 1 kHz 27V/m, 385 MHz, 18 Hz Pulse Mod. 28 V/m, 450 MHz 1KHz FM 9V/m 710/745/780 MHz 217 Hz PM 28V/m 810/870/930 MHz 18Hz PM. 28V/m 1720/1845/1970 MHz 217 Hz PM 28 V/m 2.450 MHz 217 PM 9V/m 5240/5500/5785 MHz 217 PM

General characteristics

Description	Specification
Axial distance measurement accuracy	< 3%
Typical Frame Rate	15-25
Depth	Up to 28 cm
Viewing angle	~ 60 degrees
Number of elements	64

Description	Specification
Image Display	B-mode, M-Mode
Frequency Range	2-5 MHz
Dimensions	78(W) x 167(H) x 38.5mm(D)
Weight	Type C - 200 g Type iOS - 250 g
Network Connectivity	Wi-Fi or cellular (WPA2)
Data Upload	Secured cloud service

