



airScan  
pro



USER GUIDE



Version airScan\_pro-EN-1.4\_20260122



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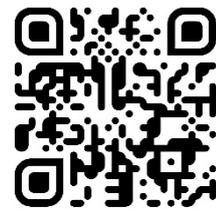
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We wish you and the users of the product a lot of success in taking care of your patients.  
We are sure that with our product you will be able to provide good care for your patients.

DRAMIŃSKI S.A. will be glad to receive your feedback regarding the device and this manual.

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## Table of contents

1.	Introduction .....	7
1.1.	Information about the user guide.....	7
1.2.	Warnings, comments and symbols used in the user guide .....	7
1.3.	Brief information about ultrasonography.....	8
1.4.	Introductory information about the airScan pro ultrasound scanner and its use.....	8
2.	Safe use.....	9
3.	List of components of airScan pro ultrasound scanner .....	10
4.	Construction of the DRAMIŃSKI airScan pro ultrasound scanner .....	10
4.1.	Ultrasound scanner body.....	10
4.2.	Ultrasound probe.....	11
4.3.	Battery.....	11
5.	Getting started.....	12
5.1.	How to charge the batteries .....	12
5.1.1.	Charger .....	12
5.2.	How to connect the batteries to the ultrasound scanner .....	13
5.3.	Attaching to the belt .....	14
5.4.	Turning on the ultrasound scanner and connecting to a mobile device .....	14
5.5.	Basic operations – quick start .....	16
5.5.1.	Preset selection .....	16
5.5.2.	Gain adjustment .....	16
5.5.3.	Scanning depth adjustment .....	16
5.5.4.	Focus.....	16
5.5.5.	Distance measurement .....	17
5.5.6.	Saving images .....	17
5.5.7.	Saving cine loop.....	17
5.5.8.	Doppler mode.....	17
5.5.9.	Checking battery level when the ultrasound device is off .....	17
6.	How to end operation of the ultrasound scanner .....	18
6.1.	How to turn the ultrasound scanner off .....	18
6.2.	Cleaning and disinfection.....	18
6.3.	Technical inspections .....	18

7.	Other features .....	19
7.1.	Mode B settings .....	19
7.1.1.	Multi Focus .....	19
7.1.2.	Frequency .....	19
7.1.3.	Harmonics.....	19
7.1.4.	Compound imaging .....	19
7.1.5.	LuciD .....	20
7.1.6.	FPS .....	20
7.1.7.	Tonal dynamics.....	20
7.1.8.	Grey map .....	20
7.1.9.	Left/right swap .....	20
7.1.10.	Line Density .....	21
7.1.11.	Freeze Timer .....	21
7.1.12.	Automatic brightness adjustment.....	21
7.1.13.	Split window (B+B mode) .....	21
7.1.14.	Screenshot capture .....	22
7.2.	Doppler mode .....	22
7.2.1.	Colour Doppler (CD) and Power Doppler (PD) imaging.....	22
7.2.2.	Adjusting the size and position of the Doppler frame .....	23
7.2.3.	Parameter settings for Colour Doppler (CD) and Power Doppler (PD) modes .....	24
8.	Image management .....	25
8.1.	Dimensioning  .....	25
8.1.1.	Distance .....	25
8.1.2.	Foetal age .....	26
8.1.3.	Measurement of the follicle .....	26
8.1.4.	Grid .....	27
8.2.	Annotations.....	27
9.	Image and video loop database  .....	28
9.1.	Loading images and loops.....	28
9.2.	Data export .....	28
10.	Presets .....	29

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10.1.	Saving a new preset .....	29
10.2.	Initial settings - load the last settings at application startup.....	29
11.	Portrait mode .....	30
12.	Multi-device connectivity .....	31
13.	Technical specification .....	33
14.	Transportation of the device .....	34
15.	Operational and technical notes .....	34
15.1.	Troubleshooting Guide.....	36
15.2.	Minimum System Requirements and Recommended Devices.....	39
15.3.	Generating an additional QR Code .....	39
16.	Symbols and markings on labels .....	40
17.	Versions of the instructions.....	41
18.	Warranty.....	41

## 1. Introduction

### 1.1. Information about the user guide

The individual sections of the user guide describe design, accessories of the device, preparing it to operation, functions and use of the airScan pro ultrasound scanner.



Reading the content of the user guide does not substitute even basic ultrasonography training. We recommend the user to take an authorised ultrasound training.

### 1.2. Warnings, comments and symbols used in the user guide

This user guide uses the following distinguishing signs to emphasise important information:



**Warning!** – Pay particular attention to safety of the patient or of the device use.

**Caution!** – Pay attention to the safety of the device or its proper operation.

**Bold text** – To draw attention to important fragments in the user guide or to make the information clearer and more legible.

*Descriptions of diagrams and figures* – to make details more visible.

The symbols used in the user guide do not provide complete information about safety instructions. Therefore, the safety instructions (section 2) must be read first and followed!

Symbols used in the text:

**[Text]** – means the name of the ultrasound scanner key

**<x.x.x>** – reference to section x.x.x

### **1.3. Brief information about ultrasonography**

Ultrasound apparatus is widely used in medicine. Particularly useful and commonly applied is real-time imaging, which allows for two-dimensional graphical representation of tissue cross-sections in 256 grayscale levels, known as B-Mode (Brightness-Mode). Additionally, colour Doppler ultrasound, used for vascular flow assessment, is gaining increasing diagnostic importance.

The diagnostic effectiveness of ultrasound is rated highly; however, the quality of the equipment, the individual experience and knowledge of the user, adherence to ultrasound examination standards, and familiarity with this user guide significantly impact the outcome of the procedure.

### **1.4. Introductory information about the airScan pro ultrasound scanner and its use**

airScan pro is a portable veterinary ultrasound scanner with a modular design. This means that for full functionality, it requires an external device, such as a smartphone, tablet, or goggles, equipped with their own computing unit, with which the airScan pro connects wirelessly. The ultrasound scanner functions can be controlled via the built-in keyboard or through an app. The image displayed in the app can be presented in B-Mode, Power Doppler, or Colour Doppler modes. The user has access to tools, such as measurements and data recording. The ultrasound device is equipped with a permanently attached linear rectal probe. This ensures seamless operation in livestock facilities and challenging field conditions. The primary applications include:

- examination of the reproductive system of animals,
- assessment of blood flow in the corpus luteum,
- lung examination,
- abdominal organ examination,
- musculoskeletal system examination.

## 2. Safe use



**Warning! – User and patient safety depends on the compliance with the following guidelines!**

1. DRAMIŃSKI *airScan pro* is a device that should be used for diagnostic purposes only by qualified personnel – a veterinarian trained in ultrasound diagnostics.
2. It is required to disinfect the probe before each use. Other parts of the ultrasound scanner should be disinfected when necessary, particularly if they may have come into contact with infectious substances.
3. The ultrasound scanner cannot be used simultaneously with other high frequency devices.
4. The ultrasound scanner must not be used for transoesophageal examinations.
5. For safety reasons, the use of the ultrasound scanner is strictly prohibited in areas where explosive and anaesthetic gases are used.
6. The device is intended for indoor use only.
7. The users of the ultrasound scanner are recommended to have regular technical inspections performed by the manufacturer every two years. This will contribute to ensuring the highest safety of patient safety.
8. Ultrasound diagnostics must not be conducted during defibrillation.
9. It is forbidden to dismantle the device and perform repairs and adjustments on one's own, except the activities described in the user guide.
10. The users of the ultrasound scanner are recommended to regularly check the probe cable and head against mechanical damage.
11. If mechanical damage of the probe, cable or strain reliefs is identified, the device needs to be sent to the service centre.
12. The ultrasound scanner has a sturdy design, however, in order to avoid mechanical damage, please, follow the instructions specified in this section of the user guide.
13. Avoid exposure of the device to strong sunlight. It is recommended to observe the temperature specified on the labels of the device and its components.
14. The user is forbidden to introduce any modifications to the device.
15. DRAMIŃSKI *airScan pro* is an electric device that can be the source of electromagnetic radiation.
16. The operation of the *airScan pro* ultrasound device may be disrupted by other electrical devices. Users may observe interference in the form of bright lines on the image when operating in a strong electromagnetic field. In such cases, it is recommended to limit the number of other electrical devices operating nearby.

17. When the device and its accessories reach their lifetime, in order to avoid the risk for the environment, they should be disposed of by specially trained entities in accordance with the applicable legislation, or returned to the manufacturer.
18. The device is equipped with overheating protection. If the processor reaches its maximum temperature threshold, the device will automatically shut down. In such a case, it is recommended to place the ultrasound scanner in a safe and cool location and wait for it to cool down.

### 3. List of components of airScan pro ultrasound scanner

Item	Name and description	Quantity
1	The airScan pro ultrasound scanner with probe	1
2	External battery	2
3	Charger	1
4	USB cable	1
5	User guide	1
6	Transport case	1

### 4. Construction of the DRAMIŃSKI airScan pro ultrasound scanner

The device is constructed of:

1. Ultrasound scanner body with permanently mounted ultrasound probe
2. Battery

#### 4.1. Ultrasound scanner body

The body of the airScan pro is made of aluminium. On the front panel, there is a membrane keyboard with power and battery charge status LEDs, as well as a Wi-Fi antenna. At the top of the casing, a cable-mounted ultrasound probe is installed. At the base, there is a socket for screwing in a ball joint mount. On the back panel, there is a system for connecting the battery.



### Caution!

The ultrasound scanner has a sturdy design. However, during use and transportation, caution is necessary in order not to subject the device to strong shocks and impacts. This will help prevent potential damage.

### 4.2. Ultrasound probe

The device is permanently equipped with a 128-component linear rectal probe operating at 7 MHz with a probe head length of approximately 60 mm. The probe cable is fitted with an easy-to-clean cover and flexible strain reliefs to protect it from bending at critical points.

### 4.3. Battery



#### Warning!

The battery can be charged only with the charger supplied by the manufacturer.

The ultrasound scanner is powered by a 3.7 V, 3000 mAh rechargeable lithium polymer battery. The battery has an internal thermal fuse protecting it against overheating during charging.

The battery casing has a socket to connect the charger cable and special contacts to be connected to the ultrasound scanner.

The battery is mounted on the back panel of the ultrasound scanner.

**Safety measures for handling a lithium polymer battery pack:**

- Never dismantle the battery pack which forms an integrated unit.
- Never short-circuit contacts in the battery pack casing using metal items.
- Do not throw battery packs into the fire nor heat them up.
- Battery packs should not be left in high ambient temperature, for example, inside a car directly exposed to sunlight, or near a source of heat. Failure to follow these principles can cause leakage of electrolyte from the battery and its damage or shorten its service life.
- Never expose the battery packs to mechanical impact. Do not throw them.
- If you notice electrolyte leakage, stop using the battery pack immediately.
- Never allow liquid to penetrate the battery pack, it may cause a sudden temperature rise and a danger.
- The battery should be charged in ambient temperature of 0°C to 40°C. Charging the battery in different ambient temperature can be dangerous and result in permanent damage to the battery pack.
- If there are problems with charging after a long service period (approx. 500 cycles), the battery pack needs to be replaced with a new one.
- The used battery pack should be recycled in accordance with the applicable legislation.

## 5. Getting started

### 5.1. How to charge the batteries

The airScan pro is powered by a 3.7 V 3000 mAh lithium polymer battery.

Charging duration: 2 hours.

Operating time: up to 2 hours when fully charged.

#### 5.1.1. Charger

A Quick Charge charger, with an output of 5V/3A, is recommended to charge the batteries. Note that in order to achieve the above charging time, you must use a cable capable of conducting a minimum of 3A. Using a charger or cable with lower parameters may significantly extend the battery charging time. It is recommended to use the charger and cable provided with the airScan pro.

**Warning! Warning!** – It is forbidden to perform any unauthorised repair of the charger nor to dismantle the device.

User safety and reliability of the device require that the charger not be used in humid and wet places.



Before you start using the charger, always check if its main components, including the cables, are not damaged.

**Caution!** Do not connect the charging cable to the battery socket if it is dirty or wet. Make sure the socket is clean and dry before charging.

**Caution!** If any damage is detected, disconnect the device from the mains immediately and replace the damaged part with a new one, by contacting an authorised service centre.

#### **In order to charge the battery:**

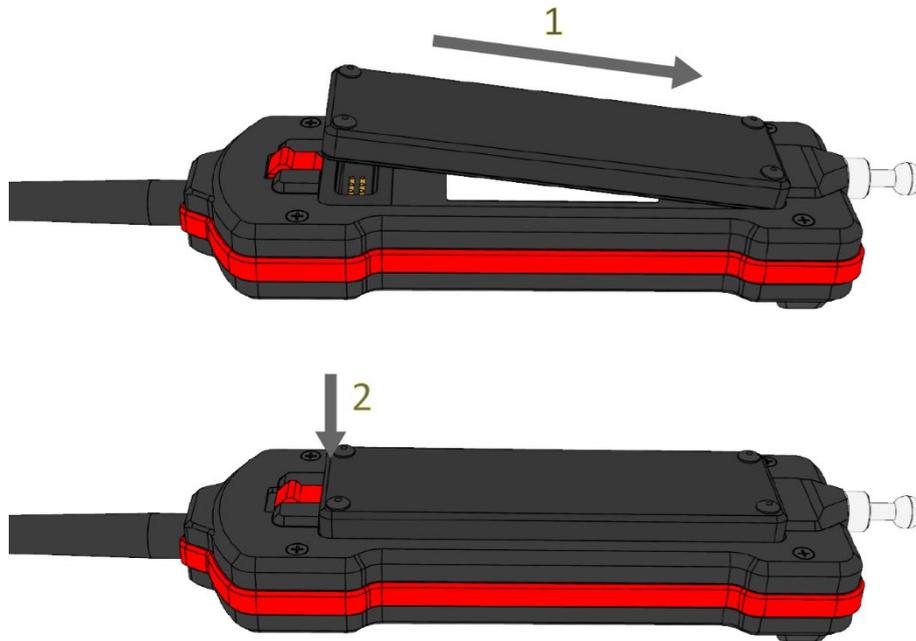
1. Connect the charger cable to the socket in the battery.
2. Connect the charger to the mains.
3. Wait 5 seconds and observe the LED built in the battery.
  - Flashing LED – the battery is charging.
  - Solid LED – the battery is fully charged.
  - No LED activity – the wrong charger is used or the battery is damaged.
4. Disconnect the battery from the charger.
5. Disconnect the charger from the mains.

#### **5.2. How to connect the batteries to the ultrasound scanner**

The battery is to be connected on the back wall of the ultrasound scanner.

**Caution!** Before connecting, make sure that the contacts of the ultrasound scanner and the battery are dry.

In order to connect the battery, follow the figure below:



**Caution!** After connecting the battery, all charge status LEDs will light up for about 1 second. This does not indicate that the battery is fully charged.

To check the battery level, briefly press the power button .

### 5.3. Attaching to the belt

1. Adjust the ultrasound mounting system to your preferred belt side.
2. Put on the belt, ensuring the mounting system opening faces upwards.
3. Adjust the belt circumference using the buckles.
4. Secure the loose belt ends with elastic bands.
5. Insert the ball mount into the mounting system until you hear a click.
6. Ensure that the ultrasound scanner will not detach unintentionally from the mounting system.

### 5.4. Turning on the ultrasound scanner and connecting to a mobile device

Each time a new mobile device is used, the QR code of the ultrasound scanner must be scanned to add it to the device list. The iLens goggles automatically connect to any airScan pro nearby.

To turn on the ultrasound scanner and connect to the mobile device:

1. Connect the battery to the ultrasound scanner.
2. Make sure it is charged by briefly pressing the Power/Freeze button. Four LEDs indicate a fully charged battery.

3. Press and hold the power button until the power LED lights up.
  - A. When the power LED is flashing, the ultrasound scanner is transmitting in the 2.4 GHz band.
  - B. If the power LED is on steady light, the ultrasound scanner is using the 5 GHz bandwidth (a 5 GHz capable device is required to connect to the ultrasound scanner).
  - C. Ultrasound frequency depends on the version of the software installed in the probe.  
After updating the probe to the latest software version.
    - a. Disconnecting and reconnecting the battery forces the ultrasound transducer to change its transmission frequency, so the transducer may switch to a different band when the battery is changed (applies to iLens, iOS, and Android devices).
    - b. After updating the software (applies to Android from version 1.25.1.150, 19.12.2025), the probe permanently retains the frequency set during the update. Disconnecting and reconnecting the battery **no longer forces** a frequency change.

To change the operating frequency of the ultrasound device:

1. Ensure the device is **OFF**.
2. Hold the **left arrow** and **press the FREEZE power button** until the probe starts up.
  - o The transmission frequency will automatically switch to 2.4 GHz or 5 GHz, depending on the previous setting.

*Recommendation:* We recommend operating the device using the 5 GHz frequency.

*Troubleshooting:* If you experience problems connecting to the probe or other transmission-related issues during operation, you can use the above key sequence to change the frequency and verify the effectiveness of the solution.

4. Launch the airScan app on your mobile device.
  - A. If using a smartphone or tablet, open the QR code scanner and scan the QR code on the ultrasound casing. The app will automatically detect and start connecting.
  - B. If you are using iLens, turn on the goggles and wait for the app to load. The iLens scans networks nearby. Once the airScan pro is detected, the goggles will connect to it automatically. Depending on the number of available networks, this can take up to several minutes.
5. The appearance of the ultrasound probe image on the screen indicates readiness for operation.

For subsequent connections with the same mobile device, simply select it from the list.

## 5.5. Basic operations – quick start

Regardless of whether the user operates with a phone, tablet, or iLens goggles, the device can be controlled using the ultrasound scanner keyboard.

In the case of using a mobile device with a touchscreen display, ultrasound scanner control is possible via the buttons on the user control panel.

### 5.5.1. Preset selection

Using the keyboard



Using the touchscreen panel, press .

### 5.5.2. Gain adjustment

Using the keyboard, adjust the overall gain – changing the brightness of the entire image sector



Using the touchscreen panel, swipe horizontally across the image sector. Swiping right increases the gain level, swiping left decreases the gain level.

Using the touchscreen panel, adjust the TGC (zone gain) – tap the TGC key, located on the right side of the screen. Adjust the gain levels from top to bottom of the screen.

### 5.5.3. Scanning depth adjustment

Using the keyboard

 – increase scanning depth (only in scanning mode)

 – decrease scanning depth (only in scanning mode)

Using the touchscreen panel, swipe vertically across the image sector.

### 5.5.4. Focus

The image displayed on the screen is clearest at the focus of the beam, as reflected by the white triangle to the left of the imaging sector.

The focus of the beam can be adjusted by holding your finger down on the touch panel, at the depth of interest at the centimetre gauge on the left side of the imaging sector.

Using iLens goggles:  -> Focus ->  -> set the appropriate value. The screen will show the percentage of beam focus adjustment relative to the set scan depth range. Confirm using the .

### 5.5.5. Distance measurement

 ->  -> DISTANCE ->  -> use the arrows to position both markers ->  -> use the arrows to position the first marker ->  -> use the arrows to position the second marker -> .

Using the touchscreen panel  ->  -> move the measurement points with your finger, one by one. The result is displayed on the left side of the screen.

### 5.5.6. Saving images

Using the keyboard

 ->  -> 

Using the touchscreen panel  -> 

### 5.5.7. Saving cine loop

 ->  -> use the arrows  /  to set the cine loop duration -> 

Use the touchscreen panel  ->  -> by dragging the blue marker along the timeline to set the cine duration -> Confirm.

### 5.5.8. Doppler mode

Using the keyboard

 ->  ->  -> 

Using the panel, press .

### 5.5.9. Checking battery level when the ultrasound device is off

 - brief pressing

## 6. How to end operation of the ultrasound scanner

### 6.1. How to turn the ultrasound scanner off

To turn ultrasound scanner off, press and hold the power button  until the power LED goes out.

### 6.2. Cleaning and disinfection

Remember to clean and disinfect the ultrasound scanner after finishing work with it.  
Clean it with a wet cloth or paper towel.

**Caution! During decontamination, the personnel performing these activities should be wearing protective clothing.**

**Caution! The ultrasound probe should be carefully disinfected after every use.**



**Warning! It is forbidden to use highly concentrated, aggressive and abrasive agents. Such agents can permanently damage the surface of the probe and the surface of the casing.**

**Warning! Use alcohol-free agents.**

**Caution! Never wash the ultrasound scanner under running water!**

**Caution! Remember not to make the battery contacts wet!**

In order to clean the ultrasound scanner:

1. Turn off the device.
2. Disconnect the battery.
3. Wipe the battery, the probe and the ultrasound scanner with a wet cloth or a paper towel.
4. Wipe all elements dry.
5. For disinfection, use a proper agent intended for disinfection of surfaces of medical and veterinary devices. Follow the instructions on the label.
6. Disinfect the battery and the probe using a damp paper towel or tissues.
7. Let the ultrasound scanner, probe and battery dry in a safe place.

To disinfect the ultrasound scanner and its accessories, use the products intended for disinfection of medical devices which do not contain alcohol.

**Caution! The transport case has a vent valve to control the air pressure in the closed case. It is not moisture-permeable. Do not close a wet device in the case. If humidity accumulates in the case, we recommend using car desiccants available in stores and petrol stations.**

### 6.3. Technical inspections

Remember to always check the ultrasound scanner, the battery, the probe and its cable for mechanical damage before starting to work. If you notice anything disturbing (for example, discontinuity of the cable), contact the service centre immediately.

The users of the ultrasound scanner are recommended to have regular technical inspections performed by the manufacturer every two years. It will guarantee the highest safety and durability.

## 7. Other features

### 7.1. Mode B settings

#### 7.1.1. Multi Focus

This setting allows for image focusing at two depths, ensuring sharp imaging in both the near and far field. A natural consequence of this function is a reduction in the frame rate (frames per second).

Selecting the Multi Focus option enables dual-focus imaging. To disable it, select Multi Focus function again.

##### 7.1.1.1. Multi Focus Depth

The user can define the depth of the first focus point in relation to the second focus point. The default setting is 50%, meaning if the second focus point is set at 40 mm, the first will be at 20 mm. Similarly, if the second focus is at 50 mm, the first will be at 25 mm.

To adjust the focal depth, select Multi Focus Depth, and set the desired value. Confirm with the button  or close with the X button.

#### 7.1.2. Frequency

The higher the frequency, the higher the resolution, but the lower the penetration.

The lower the frequency, the lower the resolution, but the higher the penetration.

To adjust the frequency, select Freq, and set the desired value. Confirm with the button  or close with the X button.

#### 7.1.3. Harmonics

Harmonics help reduce noise and improve image resolution. However, the harmonic signal strength is lower, resulting in reduced image brightness.

To enable harmonics, select THI.

To adjust the frequency value use Freq.

To disable harmonics, select THI again.

#### 7.1.4. Compound imaging

This function sends multiple ultrasound beams at different angles, which are then combined into a single frame. This reduces shadowing at structure boundaries. A natural effect is a reduced frame rate (frames per second).

To enable cross-beam ultrasound, select Spatial compd.

### 7.1.5. LucidD

LucidD is a system that enhances image quality. It makes the image smoother, with sharper edges and improved contrast.

To adjust image enhancement, select LucidD, and set the desired value. Confirm with the button  or close with the X button.

### 7.1.6. FPS

This function allows limiting the frame rate (frames per second) to save energy.

Power Saver setting – lowest frame rate (frames per second), maximum energy saving.

Balanced setting – compromise between frame rate (frames per second) and energy consumption.

High Performance setting – highest frame rate (frames per second) and highest energy consumption.

To adjust the frame rate (frames per second), select FPS, and set the desired value. Confirm with the button



or close with the X button.

### 7.1.7. Tonal dynamics

The higher the dynamic range, the lower image contrast. The lower the dynamic range, the higher the image contrast.

To adjust the contrast, select dynamic range, and set the desired value. Confirm with the button  or close with the X button.

### 7.1.8. Grey map

Changing the grey map modifies the grayscale tones of the displayed image.

To adjust the grey map, go to Adv. Settings, select Grey map, and set the desired value. Confirm with the



button or close with the X button.

### 7.1.9. Left/right swap

Adjust the image so that the marker on the screen corresponds to the marker position on the probe.

To adjust the marker position, go to Adv. Settings and select L/R. The marker will be transferred to the other side, and the image will be reflected.

### 7.1.10. Line Density

Allows adjustment of the number of lines of which the image is vertically composed. For the Standard setting it is 128, for HD it is 256, UHD it is 384 lines.

The higher degree of the interleaving, the higher the resolution but slower the refresh rate.

To change the number of image lines displayed, enter Adv. Settings and select the Interleaving function, then set the appropriate value. Confirm with the button  or close with the X button.

### 7.1.11. Freeze Timer

Set an inactivity time for the ultrasound scanner, after which the image will automatically freeze, which will benefit the battery life.

To set the time, enter Adv. Settings and use the Freeze Timer function. Select the appropriate value and confirm with  or close with X button.

### 7.1.12. Automatic brightness adjustment

This function automatically adjusts image brightness to the area being scanned. This function is not available for keyboard control.

To enable press .

### 7.1.13. Split window (B+B mode)

This mode allows for comparison of symmetrical organs or current and previous scans.

To enable press . The image will be active in the right window.

To transfer the image from the left window: Freeze -> .

To load an image from memory into the left window, press  and select the file from the appropriate location.

To export both window images, press .

To temporarily expand the right window to full screen, press .

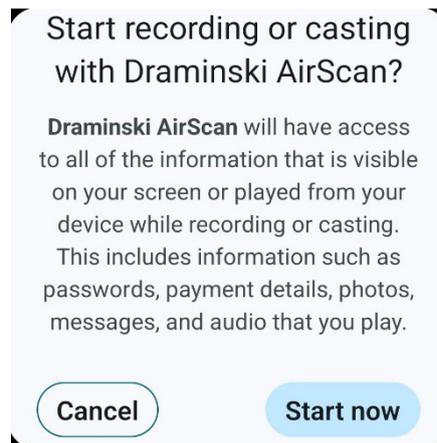
To return to single-window mode, press .

### 7.1.14. Screenshot capture

The user can capture a screenshot as a single image or video. Anything that is currently displayed on the screen will be saved on the image – if you are using a cell phone, these could be fragments of text messages or notifications, for example.

To save the image, press .

To start recording the screen, press  and confirm the message:



To stop recording, press .

## 7.2. Doppler mode

The Colour Doppler function visualises vascular flow in real time over a B-mode image. Blood flow is colour-coded according to direction. The red colour corresponds to the stream flowing to the probe head. The blue colour indicates the opposite direction.

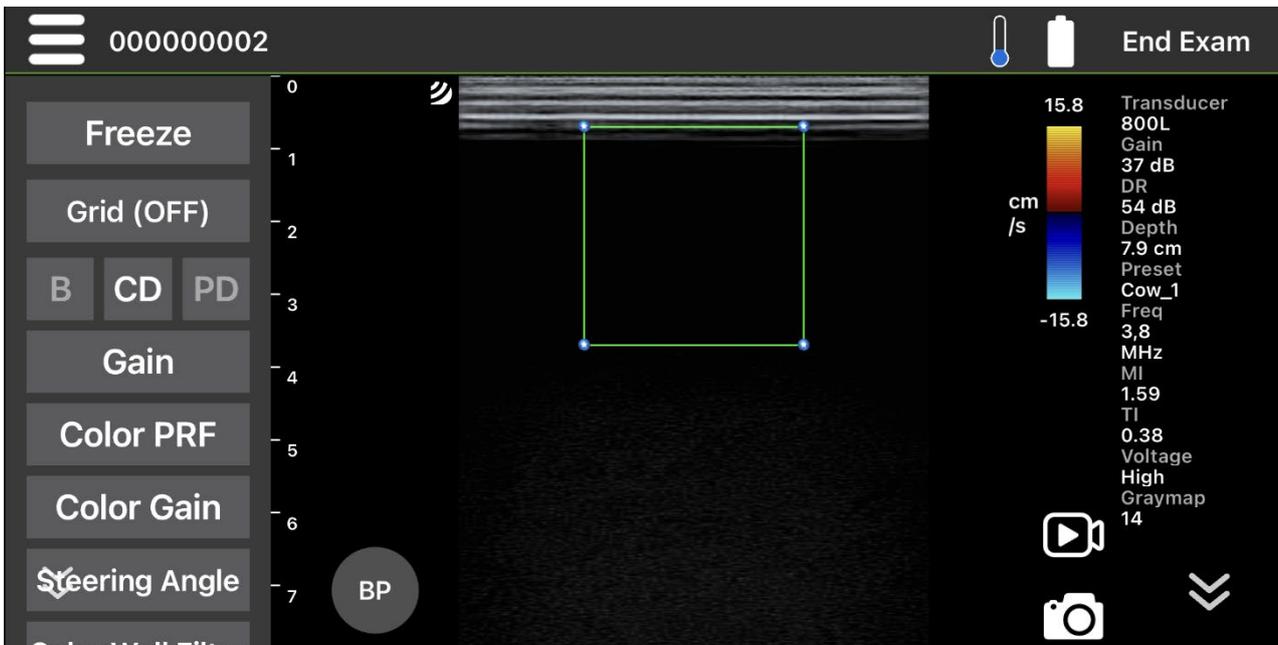
The Power Doppler function allows the flow to be visualised using a single colour, without specifying the direction.

### 7.2.1. Colour Doppler (CD) and Power Doppler (PD) imaging

Remember that the scanning conditions significantly affect imaging results. Poor contact between the probe and the patient's body may impact Colour Doppler sensitivity.

Before enabling Doppler mode, ensure the organ is clearly visualised in B-mode and centred in the image.

To enable Colour Doppler mode, press . To enable Power Doppler, press .



Window in CD mode (Colour Doppler)

### 7.2.2. Adjusting the size and position of the Doppler frame

The **ESC** button is used to switch between repositioning modes and to resize the frame.

#### 7.2.2.1. Changing Doppler frame position

Using the keyboard

Use the arrows **>** / **<** / **^** / **v** to adjust the position of the Doppler frame.

Using the touchscreen panel, drag the frame by its centre, to the desired place.

#### 7.2.2.2. Resizing the Doppler frame

Using the keyboard

**ESC** -> use the arrows **>** / **<** / **^** / **v** to change the size of the Doppler frame.

### 7.2.3. Parameter settings for Colour Doppler (CD) and Power Doppler (PD) modes

The adjustment of parameters is possible when Doppler mode is enabled.

#### 7.2.3.1. Colour PRF – Pulse Repetition Frequency

The PRF setting determines the scale of flow velocity that can be visualised in red and blue. To visualise fast flows, set the PRF value high. As PRF increases, the image refreshing rate increases.

To visualise blood flowing at a lower speed, set a lower PRF value. At the same time, the image refreshing time will increase – the black-and-white image smoothness may decrease.

Therefore, when examining smaller vessels with slower flows, the PRF value should be minimised. Otherwise, it will not be possible to visualise the flows in these vessels.

To adjust PRF, select Colour PRF function, and set the desired value. Confirm with the button  or close with the X button.

#### 7.2.3.2. Colour Gain

Colour gain is used to adjust the amount of colour displayed within the vessel.

Increase the colour gain if no colour is visible in the Doppler frame or if the vessels are not sufficiently filled with colour pixels.

If there is too much colour, causing it to “spill” outside the vessel walls or if many chaotic, colourful speckles appear, decrease the colour gain.

To adjust the gain, select the Colour Gain function, and set the desired value. Confirm with the button  or close with the X button.

#### 7.2.3.3. Doppler frame steering angle

This function allows the beam to be tilted from vertical if it is directed at the vessel at a perpendicular angle (in such a case, visualising blood flow within the vessel may be difficult).

To adjust the beam angle, select the Steering Angle function, and set the desired value. Confirm with the button  or close with the X button.

#### 7.2.3.4. Colour Wall Filter

High-pass filter. Increasing the value means that the colour caused by tissue motion will not be displayed – reduction of motion artefacts. It should be increased when large, flashes of colour are seen during the animal's movements or rapid breathing.

**Caution!** High filter settings may simultaneously filter out data from slow blood flow.

To adjust the filter setting, select the Colour Wall Filter function, and set the desired value. Confirm with the button  or close with the X button.

### 7.2.3.5. Colour Threshold

This setting removes lower flow values, thus cutting off darker colour shades.

To adjust the cut-off threshold, select the Colour Threshold function, and set the desired value. Confirm with the button  or close with the X button.

## 8. Image management

### 8.1. Dimensioning

The ultrasound scanner has a tool for taking measurements: length, determination of fetal age, follicle measurement. The user can also use a grid for quick assessment of the size of examined structures.

#### 8.1.1. Distance

The distance measurement is expressed in mm.

Each distance measurement has a sequential number.

Using the keyboard

 ->  -> Distance ->  -> use the arrows to position both markers ->  -> use the arrows to position the first marker ->  -> use the arrows to position the second marker -> 

Up to three distance measurements can be taken. When two or three measurements have been taken and the  button is pressed, the last measurement taken will be deleted and the ability to move both markers of the previous measurement will automatically start.

Using the touchscreen panel

 ->  -> Distance

Slide the two measurement points with your finger.

The result is displayed on the left side of the screen.

### 8.1.2. Foetal age

Use obstetric measurements to assess the foetal age.

The age of the fetus is expressed in days and the distance in mm is displayed.

Using the keyboard

 ->  -> Age of fetus ->  -> use the arrows to position both markers ->  -> use the arrows to position the first marker ->  -> use the arrows to position the second marker -> 

Using the touchscreen panel

 ->  -> Age of fetus

Slide the two measurement points with your finger.

The user has a choice:

Cow BPD (Biparietal Diameter) – Biparietal measurement at ~ 65–200 days of gestation

Cow CRL (Crown-Rump Length) – Foetal body length at ~ 30–80 days of gestation

Equine BPD (Biparietal Diameter) – Biparietal measurement at ~ 100–330 days of gestation

Equine ED (Eye Diameter) – Diameter of the eyeball at ~ 86–318 (65–356) days of gestation

Equine VD (Vesicle Diameter) – Measurement of the embryonic bladder at ~ 13–45 days of gestation

Lama BPD (Biparietal Diameter) – Biparietal measurement at ~ 75–240 days of gestation

Sheep CRL (Crown Rump Length) – Length of the foetal body at ~ 30–70 days of gestation

Sow CRL (Crown Rump Length) – Length of the foetal body at ~ 20–50 days of gestation

### 8.1.3. Measurement of the follicle

The feature makes it easier to measure pre-ovulatory follicles. When it is activated, a measurement marker is permanently displayed during the examination, around which, after the image is frozen, the follicle diameter measurement is automatically drawn.

The position of the measurement marker can be adjusted in the vertical plane only in freeze mode - it will be permanently stored for subsequent measurements. The sensitivity of the measurement can be adjusted after it is taken.

To enable follicle measurement, enter Adv. Settings and select the Follicle function. A marker will appear in the center of the screen.

To measure the diameter, try to aim the follicle at the location of the displayed measurement marker or directly above/below it, so that the follicle boundaries are within the vertical axis defined by the measurement marker.

Once the image is frozen, the measurement will automatically take place around the measurement marker.

At the top of the menu you will see an additional button , used to modify the measurement result by changing the sensitivity threshold of the follicle measurement. The sensitivity threshold determines what level of echogenicity of the structures should be the boundaries for the contour.

Using the keyboard

 -> use the arrows  /  to change the position of the measurement marker if it is outside the follicle perimeter -> use the arrows  /  to change the sensitivity threshold ->  to validate the measurement.

Using the touchscreen panel

 -> swipe the measurement marker in place of the follicle ->  to change the sensitivity threshold.

Changing the height of the measurement marker while measuring a follicle in image freeze mode will be remembered and the measurement marker will be displayed at the given height after switching to scan mode.

The diameter is expressed in mm.

The result is given on the left side of the screen.

#### 8.1.4. Grid

The user can superimpose a grid on the image with a scale every 1 cm to allow an approximate assessment of the size of the structures.

To enable the grid, select the GRID ON/OFF function in the main menu.

#### 8.2. Annotations

After freezing the image, select the Annotate function to add a description on the image. Use the keyboard to enter a description and confirm with the Done button. Move the description with your finger to the appropriate location.

## 9. Image and video loop database

This function allows loading images and video loops with annotations from the internal memory of the device.

**Caution! Remember to systematically backup saved images and loops to external media and clean the device's memory.**

### 9.1. Loading images and loops

The database can be accessed from the position of the app's start window.

Select Review . A list of examinations will appear on the screen, displaying patient data, examination date, and the number of files in the directory.

← Saved Exam 29 cases 			
<b>Quick ID (Male)</b>			
MRN: 0000029	Date: 12/20/2024	Duration: In Progress	 2
DOB:	Time: 12:37:49	Performed by:	
Accession No.:	Station Name:		
<hr/>			
<b>Quick ID (Male)</b>			
MRN: 0000028	Date: 12/16/2024	Duration: 84 minutes	 0
DOB:	Time: 10:47:05	Performed by:	

Click on the desired folder and select the image you want to display on the screen.

### 9.2. Data export

Open the patient folder as described above.

In the upper right corner of the screen, press  and select Export File.

Select the files you want to export and use the two available options:



- share (allows you to share a file via instant messaging or email)



- export (allows you to export images and loops from the app to a folder in the mobile device's memory).

## 10. Presets

The list of presets available during the test depends on the type of probe.

To select a preset using the keyboard



Using the touchscreen panel, press .

### 10.1. Saving a new preset

Adjust the image settings to your preference. Use , and then press "+". Enter the name of the new preset and confirm.

### 10.2. Initial settings - load the last settings at application startup

This function allows the ultrasound scanner to remember its settings after an examination and to load those settings the next time it connects to the probe.

You can choose from three options: run the application with the default cow reproductive testing preset, run the application with the last used preset, or run the application with the last user settings.

*To enable the function of running the application with settings from before the shutdown,*

go to the Main Settings  in the initial window of the application.

**Attention!** Be sure to properly complete each test by pressing the "End Test" button on the touch panel or by

holding down the power button . Any other way of terminating the examination, such as by minimizing and closing the application, without first terminating the examination or turning off the probe, makes it impossible to save the last ultrasound settings.

## 11. Portrait mode

Activating portrait mode allows the screen orientation to switch between horizontal and vertical depending on the device's position. The mobile device switches automatically when rotated by 90°. The screen interface adjusts to the current orientation, and all settings available via the keyboard in horizontal mode are also available in portrait mode.

To enable or disable portrait mode, go to the Main Settings  in the application's home screen.

To prevent the screen from changing orientation while rotating the mobile device in portrait mode, disable automatic screen rotation in the mobile device's system settings.

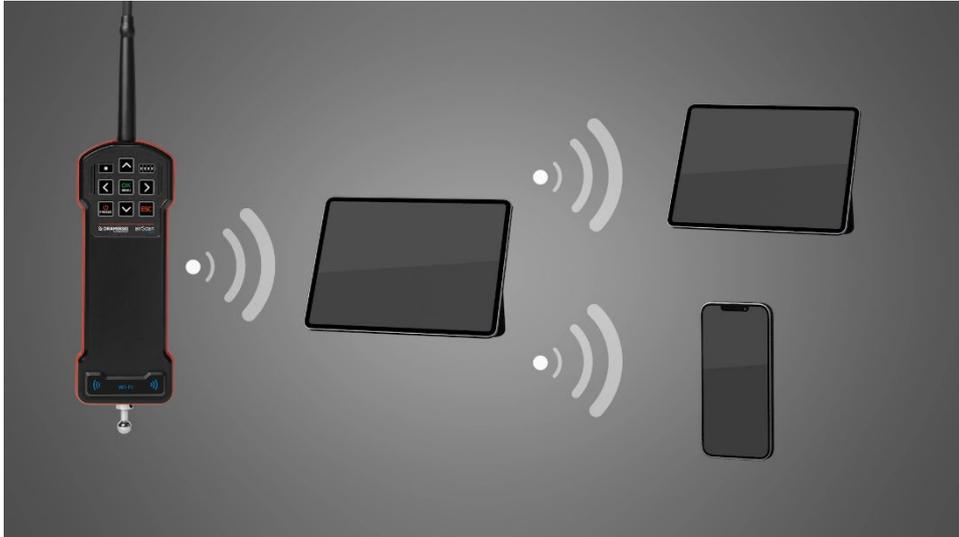


## 12. Multi-device connectivity

The mobile device connected to your airScan pro can share the displayed image with other mobile devices using the dedicated **Draminski screenLink** app.

For this function to work correctly, Wi-Fi and hotspot must be enabled simultaneously. Some devices automatically turn off Wi-Fi when the hotspot is activated, so make sure your device supports simultaneous operation of both functions (e.g., Xiaomi Pad 6, 8 GB RAM).

Only devices running Android can share the image, whereas iOS devices can only display the shared image.



**If you want to stream an image from your mobile device to another mobile device or the iLens goggles, follow the instructions below:**

\* The multi-device connectivity icon  is located in the lower right corner of the Draminski airScan app.

Clicking on it will take you to a quick guide .

\* When you stream an image for the first time, take the mobile device from which you want to stream the image, then download the Draminski screenLink app  from the Google Play Store (mobile data may be required).

1. Take the mobile device from which you want to stream the image, launch the Draminski airScan app

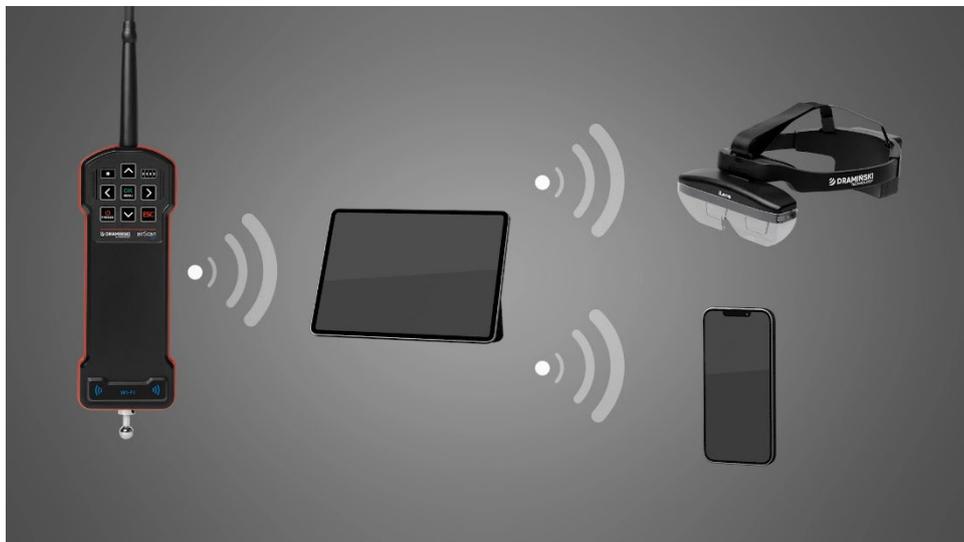


on it, turn on the airScan pro ultrasound scanner and connect to it.

2. When you stream an image for the first time:
  - In the advanced settings of the application, click the "Open hotspot" button and configure it, set the network name to "DramSpot" and the password to "12345678." Then enable the hotspot. Return to the Draminski airScan app.
3. When you stream an image again:
  - In the advanced settings of the Draminski airScan app, click the "Open hotspot" button, then turn it on. Return to the Draminski airScan app.

4. In the advanced settings of the application, click the "Open screenLink" button to launch the screen sharing application. Once in the Draminski screenLink app, enable image transmission, then return to the Draminski airScan app.
5. Take the second device on which you want to view the stream image:
  - The iLens goggles will connect automatically when turned on (make sure you have a compatible version of the software).
  - If you want to connect your phone or tablet, you will need to launch the Draminski airScan app 

to display the image. Click this button , select the "DramSpot" network, enter the password "12345678". Don't worry if a message appears on the screen that you are connected to a network without Internet access. Please confirm this message if it appears on the screen.



6. Wait for the streamed image to appear on your device.

\* If the streamed image stops displaying on your device, make sure you have not lost your Wi-Fi connection to the "DramSpot" network. If this does not help, stop and restart the image transmission in the Draminski screenLink app on the device that is streaming the image.

\* If you are having trouble connecting your goggles, turning off the displays by shortly pressing the power button to put it into standby mode and then pressing it again will refresh the list of nearby devices searched for.

### 13. Technical specification

<b>Purpose</b>	Ultrasound diagnostics of animals: Diagnostics of reproductive system Confirmation and monitoring of pregnancy Ultrasound examination of the lungs, digestive system Measurement of backfat thickness
<b>Imaging modes</b>	B Mode Colour Doppler Power Doppler
<b>Grayscale</b>	256 shades
<b>Grey maps</b>	30 settings
<b>Image management</b>	Freezing the image Dimensioning Annotations Saving to internal memory Exporting to external storage device
<b>Measurements</b>	Distance, grid, obstetric measurements (Cow CRL, Cow BPD, Equine BPD, Equine ED, Equine VD, Sheep CRL, Lama BPD, Sow CRL), follicle measurement
<b>Saving data to the memory</b>	Image with measurements Cine loop
<b>Image and video loop memory</b>	Dependent on mobile device
<b>Image display</b>	Android or iOS mobile device iLens Goggles
<b>Probe</b>	Electronic, broadband, permanently mounted. Linear rectal 7 MHz L60 Convex rectal 5 MHz R60
<b>Keyboard</b>	Membrane, water resistant
<b>Connectivity</b>	WiFi
<b>Power supply</b>	Li-Po 3.7 V 3000 mAh
<b>Continuous operation when the battery is fully charged</b>	Up to 2 hours
<b>Charging of the battery pack</b>	2 hours
<b>Battery charge indicator</b>	Automatic – graphic indicator in the app Manual – LEDs on the membrane keypad of the device
<b>Dimensions</b>	27 x 18 x 7 cm (LxWxH)
<b>Weight of the device</b>	0.6 kg with probe and battery
<b>Weight of the battery</b>	0.1 kg
<b>Protection class</b>	IP65
<b>Operating temperature</b>	From 0°C to +40°C
<b>Recommended storage temperature</b>	From 5°C to +40°C

**Caution!** If the storage temperature happens to fall below 5°C, it is necessary to warm the probe up before turning on the device. Using the ultrasound scanner in extreme temperatures alternatively is unfavourable and can lead to damages.

## 14. Transportation of the device

It is recommended to transport the device in the provided transport case.

It is recommended to connect the battery to the ultrasound scanner during transport.

## 15. Operational and technical notes

It is necessary to shave fur and use ultrasound gel in order to carry out abdominal examination. Proper layer of the gel will definitely improve penetration of the ultrasound beam and will enable obtaining proper and legible images.

**Caution!** Ultrasound gel should not contain any of the following ingredients, as they can damage the probe:

- Olive oil
- Methylparabens or ethylparabens (parahydroxybenzoic acid)
- Dimethyl Silicone
- Iodine
- Lotions
- Lanolin
- Aloe vera
- Mineral oils
- Methanol, ethanol, isopropanol or other alcohol-based gels

During and after the examination, protect the head of the probe and the cable against mechanical damage. Remember:

1. To arrange the cable of the probe properly. Improper arrangement or excessive bending of the cable can cause damage to the wire.
2. To place the probe in the case properly. To avoid squeezing the cable with the cover of the case, as it may cut the wire.
3. To store the probe properly and safely.
4. The ultrasound scanner, probes and batteries should be stored in a dry place.

**Caution! Portable RF communication equipment (including peripherals such as antenna cables and external antennas) should not be used closer than 30 cm (12 inches) to any part of the ultrasound scanner, including cables specified by the manufacturer. Otherwise, the performance of this equipment may be impaired.**

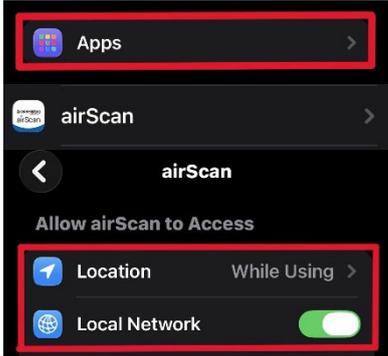
**Caution! Ultrasound scanner is a device sensitive to magnetic fields. If, during the test, the user sees interference on the screen of the mobile device in the form of moving or static horizontal, oblique or vertical lines or dots, change the test location to one where the interference will stop.**

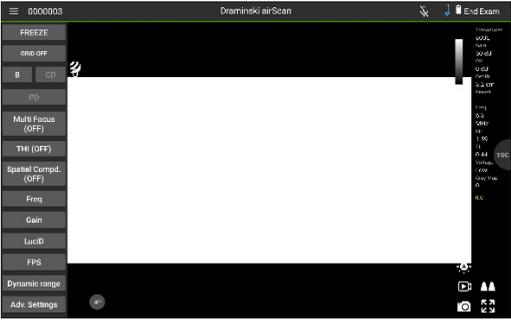
The airScan pro is designed for use in the electromagnetic environment specified below.

The customer or user of the equipment should ensure that they are used in such an environment.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment – guidance
Carried RF IEC 61000-4-6	3 Vrms: 0.15 MHz – 80 MHz 6 Vrms: in the ISM and amateur radio bands between 0.15 MHz and 80 MHz	3 Vrms: 0.15 MHz – 80 MHz 0.15MHz – 80MHz 6 Vrms: in the ISM and amateur radio bands between 0.15 MHz and 80 MHz	Portable and mobile radio communication equipment should not be used at a distance shorter from any part of the equipment including cables than the recommended separation distance calculated on the basis of the equation appropriate to the frequency of the transmitter.
IEC RF radiation	80% AM at 1 kHz  10 V/m 80 MHz – 2.7 GHz 80% AM at 1 kHz	80% AM at 1 kHz  10 V/m 80 MHz – 2.7 GHz 80% AM at 1 kHz	Recommended separation distance: $d = 1.2\sqrt{P}$ $d = 1.2\sqrt{P}$ 80MHz to 800 MHz $d = 2.3\sqrt{P}$ 800MHz to 2.7 GHz Where P is the maximum output power of the transmitter in watts (W) according to the transmitter manufacturer, and d is the recommended separation distance in meters (m). Interference may occur in the vicinity of devices marked with the following symbol: 
Proximity magnetic field IEC 61000-4-39	8 A/m at 30 KHz 65 A/m at 134.2 KHz 7.5 A/m at 13.56 MHz	8 A/m at 30 KHz 65 A/m at 134.2 KHz 7.5 A/m at 13.56 MHz	
<p>NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies.</p> <p>NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.</p>			

**15.1. Troubleshooting Guide**

Symptoms of improper operation of the device	Causes / Verification
The device does not turn on	<ol style="list-style-type: none"> <li>1. Check if the battery is properly attached.</li> <li>2. Check if the battery is charged.</li> <li>3. Check if the device operates with another battery for airScan pro, if available.</li> </ol>
The power LED flashes after start up	<ol style="list-style-type: none"> <li>1. The ultrasound scanner is transmitting in the 2.4 GHz bandwidth.</li> </ol>
The power LED is on steady light after start up	<ol style="list-style-type: none"> <li>1. The ultrasound scanner is using the 5 GHz bandwidth</li> </ol>
The ultrasound scanner cannot change its current transmission frequency	<ol style="list-style-type: none"> <li>1. Disconnecting and reconnecting the battery forces the ultrasound transducer to change its transmission frequency, so the transducer may switch to a different bandwidth when the battery is changed.</li> <li>2. Ensure the device is OFF. Hold the left arrow and press the FREEZE power button until the probe starts up. (Android software from version 1.25.1.150, 19.12.2025)</li> </ol>
The power LED is on steady light after being connected to the ultrasound scanner	<ol style="list-style-type: none"> <li>1. The ultrasound scanner is transmitting in the 2.4 GHz bandwidth (the power LED stops flashing and becomes steady after connection).</li> <li>2. The ultrasound scanner is using the 5 GHz bandwidth.</li> </ol>
Ultrasound scanner won't connect to mobile device or goggles	<ol style="list-style-type: none"> <li>1. Make sure the device's battery is fully charged. A low state of charge can make it difficult to connect.</li> <li>2. Make sure you have Wi-Fi enabled on your device.</li> <li>3. Make sure you are not connected to another network via Wi-Fi.</li> <li>4. Make sure airScan pro is not connected to another device.</li> <li>5. Make sure that there are not many WiFi networks in the place where you are conducting your examination. If the channel on which the target connection is set is occupied by other devices, an automatic attempt will be made to change the channel to another one. This may take a few minutes.</li> <li>6. Make sure the app on your iOS device has access to Location Services and the Local Network in the device's Settings. Go to Settings -&gt; Apps -&gt; airScan -&gt; Location and Local Network.</li> </ol> 
Image transmission is not smooth	<ol style="list-style-type: none"> <li>1. Make sure that the device transmits in the 5GHz band.</li> <li>2. Make sure Bluetooth on your phone/tablet is turned off.</li> <li>3. Make sure there are no other apps on your device running in the background.</li> <li>4. Make sure there are no other radio frequency devices operating in the vicinity that could interfere with the ultrasound scanner.</li> </ol>

	<ol style="list-style-type: none"> <li>5. Reduce imaging parameters that may affect image processing: LuciD, Line Density.</li> <li>6. Make sure your tablet/phone is charged (discharged device in battery saving mode may process the image slower).</li> <li>7. Restart your mobile device and reconnect to the ultrasound scanner.</li> <li>8. Try connecting to another device with a higher processor model and more RAM.</li> </ol>
<p>The image is disturbed</p>	<ol style="list-style-type: none"> <li>1. Check if the ultrasound scanner is not located near other devices emitting electromagnetic field.</li> <li>2. Check if the probe cable has no mechanical damage.</li> </ol>
<p>The image is too bright or too dark</p>	<ol style="list-style-type: none"> <li>1. Check the settings of mobile device display brightness, gain, grey map and MHz.</li> <li>2. Enable preset.</li> </ol>
<p>The device heats up after some time of operation</p>	<ol style="list-style-type: none"> <li>1. Check the temperature of the housing.</li> <li>2. When the device heats up above 50 degrees, turn it off, disconnect the battery and place the entire set in a shaded, cool place.</li> </ol> <p>* The housing is made of a sealed aluminum casing, which facilitates heat dissipation. The housing can reach temperatures of up to 50 degrees.</p>
<p>No charging indication on the battery</p>	<ol style="list-style-type: none"> <li>1. Check if the charger is properly connected to the mains.</li> <li>2. Check the power supply in the mains.</li> <li>3. Check a different charger and cable.</li> <li>4. Battery defect or end of life.</li> </ol>
<p>The battery works too short</p>	<ol style="list-style-type: none"> <li>1. The battery was not charged.</li> <li>2. Low ambient temperature.</li> <li>3. Compare the operating time on the second battery.</li> <li>4. Make sure your Draminski airScan pro app has the latest updates.</li> <li>5. The battery is worn out.</li> </ol> <p>* The operating time with a fully charged 3000 mAh battery is approximately 2 hours. Operating time depends on the operating parameters, ambient temperature, etc.</p>
<p>The image from the probe is not displayed (a white or black image is displayed)</p> 	<ol style="list-style-type: none"> <li>1. Click the BP button and load the preset of your choice.</li> <li>2. The battery is deeply discharged.</li> <li>3. The probe is damaged.</li> </ol>
<p>Vertical interference appears on the displayed image from the bottom to the top of the screen</p>	<ol style="list-style-type: none"> <li>1. The battery is deeply discharged.</li> <li>2. Disconnect and reconnect the battery.</li> <li>3. Compare work on the second battery.</li> <li>4. Battery defect or end of life.</li> </ol>
<p>Problems when using the multistreaming function - trouble connecting your device to the hotspot and starting the transmission</p>	<ol style="list-style-type: none"> <li>1. Make sure the device has simultaneous Wi-Fi and hotspot functionality.</li> <li>2. Make sure you entered the correct name and password when creating the hotspot.</li> </ol>

	<p>3. Make sure the hotspot is turned on and the image transmission in the Draminski screenLink app is started.</p> <p>* The iLens goggles:</p> <ol style="list-style-type: none"> <li>1. Make sure you have the correct software version compatible with the multistreaming function.</li> <li>2. If you are having trouble connecting your goggles to the hotspot, turning off the displays by shortly pressing the power button to put it into standby mode and then pressing it again will refresh the list of nearby devices searched for.</li> </ol>
<p>Problems when using the multistreaming function - the image is lagging</p>	<ol style="list-style-type: none"> <li>1. Make sure there are no other devices operating nearby that could interfere with the transmission.</li> <li>2. Make sure you are not too far from the device transmitting the image.</li> </ol>
<p>Problems when using the multistreaming function - the streamed image stops displaying on your device</p>	<ol style="list-style-type: none"> <li>1. Make sure you have not lost your Wi-Fi connection to the "DramSpot" network.</li> <li>2. Stop image transmission in the Draminski screenLink app and turn off the hotspot. Turn the hotspot on again and start screen sharing in the Draminski screenLink app. Refresh the iLens goggles by briefly pressing the power button if they are in use.</li> </ol>

## 15.2. Minimum System Requirements and Recommended Devices

The Draminski airScan app is compatible with devices running Android and iOS. Below are the minimum system requirements for your mobile devices:

- **Hardware Specifications:**
  - **CPU:** Qualcomm 626 or higher
  - **GPU:** Adreno 506 or higher
  - **RAM:** 2 GB or higher
  - **Wi-Fi:** 802.11ac or faster
- **Minimum Device Specifications:**
  - **Android version:** 9 or later
  - **iOS version:** 13 or later

Meeting the minimum hardware requirements does not guarantee full functionality or stable operation of the device. Manufacturer-provided specifications may differ from actual performance.

**Accordingly, DRAMIŃSKI is not responsible for any performance limitations or operational issues resulting from 3rd party hardware that does not meet the required standards.**

### Recommended Devices

To ensure full functionality and optimal use of the ultrasound scanner, we **recommend** using one of the following mobile devices:

- **iLens**
- **Xiaomi Pad 6** or newer, **8 GB RAM**
- **Samsung Galaxy S23** or newer
- **iPhone 13** or newer

\* iLens and iOS devices can display images from other devices but cannot stream images themselves.

## 15.3. Generating an additional QR Code

You can generate a dedicated QR code for your airScan pro on the QR generator website. Set the data type to **TEXT**, then enter:

- **“LV128-8154-XXXXX”** for a **linear probe**, or
- **“LV128-8141-XXXXX”** for a **convex probe**.

The five **X** characters represent the unit's serial number.

Serial numbers start with **“15”** for linear probes and **“25”** for convex probes.

## 16. Symbols and markings on labels

	CE marking which indicates conformity of the product with Directives in force.
	Note, read the user guide.
	Warnings about hazards which concern user safety.
 2024	Date of manufacture of the product
 DRAMIŃSKI	Name of the product's manufacturer and its address
	Dispose of separated with other household waste in accordance with the 93/86/EEC Commission Directive or local regulations.
<b>IP65</b>	The level of resistance of the housing to external factors – the ingress of solid foreign bodies and dust, and the degree of protection against water.
<b>SN-</b>	Product serial number for identification purposes
MAX 40°C  MIN 10°C	Product storage temperature
	Take care, fragile
	For internal use only
 19V DC	Information about the voltage and polarity of the power supply

## 17. Versions of the instructions

Version No	Changes made
<b>airScan_pro-EN-1.1_20250305</b>	Creation the English version of the user guide
<b>airScan_pro-EN-1.2_20250601</b>	Update content
<b>airScan_pro-EN-1.3_20250612</b>	Update content, new features added
<b>airScan_pro-EN-1.4_20260122</b>	Content updates, new features, list of compatible devices, and troubleshooting guide

## 18. Warranty

The manufacturer gives a 12-month warranty and guarantees trouble-free operation of the device used in accordance with this user guide.

The battery in the device is covered with a 6-month warranty.

In case of a technical defect, which was not caused by the user, the manufacturer is obliged to repair the delivered device within no more than 14 business days from the date of delivery of the device to the service centre (ul. Wiktora Steffena 21, 11-036 Sząbruk, Poland) and send back the operational device to the user at the manufacturer's cost.

The warranty does not cover mechanical damage, damage caused by improper use, storage and self-made repairs.

The warranty is honoured on the basis of a proof of purchase (invoice). In order to claim under this warranty, notify Dramiński about the alleged defect immediately after its occurrence.

In order to submit a warranty claim, you need to provide:

1. The device.
2. The copy of the purchase document which determines the name and address of the seller, date and place of the purchase, type of the product and the serial number of the product.

The warranty is provided by:

DRAMIŃSKI S.A.

ul. Wiktora Steffena 21

11-036 Sząbruk, Poland

e-mail: [serwis@draminski.com](mailto:serwis@draminski.com)

[www.draminski.com](http://www.draminski.com)







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