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Procedures for Using the Sonoptek EQ-1

1/ Download the EQUUS App onto the Tablet. This is a free App.

<https://play.google.com/store/apps/details?id=com.sonoptek.smartvus3.eq>

2/ Connect the Probe to the Tablet following these instructions (taken from page 6 of the User's Guide).

Wireless Connection

- Turn on the Probe by pressing the start Icon on the Probe.
- A blue light will appear.
- To the right of the start button blue lights will appear to indicate level of battery charge in the Probe.
- All 4 lights ON will mean the Probe is fully charged.
- To connect the Probe to the Tablet the Probe will need to be turned ON
- Turn on the Tablet.
- Tap on the Settings button
- Tap WiFi
- Under Network or WLAN EQC plus probe serial # Should Appear... Tap on it
- **It will now ask you for Password. The Password is the Serial Number on your Probe.**
- **Enter the Serial Number in ALL LOWER CASE**

- Once connected Open the EQ App on your Tablet
- TO ENSURE YOU ARE CONNECTED to WIFI
- The Probe's EQ-1 GVCAMA005 serial number should now appear in BLUE at the top left hand side of the EQUUS APP screen. If it DOESN'T appear you are not connected. GO BACK AND RECONNECT.
- ONCE CONNECTED
- Press the SNOW Icon on the left hand side of the screen.
- The word LIVE should now appear at the bottom left of the screen.
- This means you are connected and ready to start scanning.

Remember when asked for the password use the serial number stamped on the handle of the probe starting with eq all in LOWER CASE . eg eqcccla052 (that is our demo probe serial number) your probe serial number will be different.

3/ Go back to the EQUUS App on the Tablet and the blue serial number should be showing on the top left hand side of the Tablet. It will also have freeze showing in the bottom left. To take it off freeze push the on/off button quickly and it will show Live on the screen. Also the snowflake button on the tablet can be used to take it off freeze.

4/ Please be aware of this as the button can be pressed when scanning by accident freezing the image.

Setting Up to Scan

1/ Put a Table next to the crush

2/ Put the Tablet in a briefcase propping the lid open or a plastic drum to give the screen of the Tablet shade and protection from dust and being mishandled. Angle the tablet in the above briefcase or container so it can be easily seen from the operator in the Vet Crate behind the crush

3/ This also keeps one hand free to hold the cow's tail and the other to hold the Probe. It is important for the scanning operator to hold the tail as this helps to locate the probe and also stops the tail from flicking out and damaging the probe on the side of the crush.

4/ Have two buckets of water on hand . One for washing the probe and one for keeping you as clean as possible. We mix Hibitane with the water in both buckets which is just a common livestock disinfectant. This ensures that bacteria are not carried into the rectal passage from one cow to the next and also lubricates the probe to assist with rectal insertion.

5/ Remember the Principals of Ultrasound.

a/ Black Amniotic Fluid appears on the screen of a pregnant cow. The fluid appears black on the screen as Ultrasound passes through fluid and does not reflect back.

b/ Then look for activity in the fluid. By activity we mean Cotyledons which look like mushrooms lining the walls of the fluid. Cotyledons are part of the placenta providing nutrients, blood and oxygen to the fetus. So, when you see Cotyledons, you have a pregnancy. Other activity will be seen often and that is the frame of the calf in older pregnancies, umbilical cords (which wave about like a piece of string or cotton in the early stages). However essentially once you have seen black amniotic fluid and CL's you have a pregnancy. The natural tendency in the early stages is to over evaluate what you are seeing on the screen.

To confirm pregnancy in a cow only takes up to 30 seconds . If scanning is taking longer it is usually because the cow is empty which deserve extra time so decisions can be made after ensuring the cow is empty. The empties take the longest. In an empty cow you will not see the mass of fluid nor will you see the Cotyledons.

Always take care of the Probe remembering and treating it as a scientific tool which provides invaluable information to the Breeder. Clean after each use with a damp rag . Store and travel with the probe in the supplied foam box , or ideally a gun bag being careful not to mark the ultrasound probe head (grey strip on the end of the probe) as it will affect image quality .

Please call anytime if assistance is required. 0400 403 883

Important

Best Settings that can be adjusted on the EQ-1:

Scanning Depth (Zoom) 100 mm

Mhz 8 Mhz

Gain (Db) 65 to 75

Keep your eye on these settings . They can be changed easily but these are a great place to start when learning how to Scan.



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