



# Quick Guide Sound Scanner

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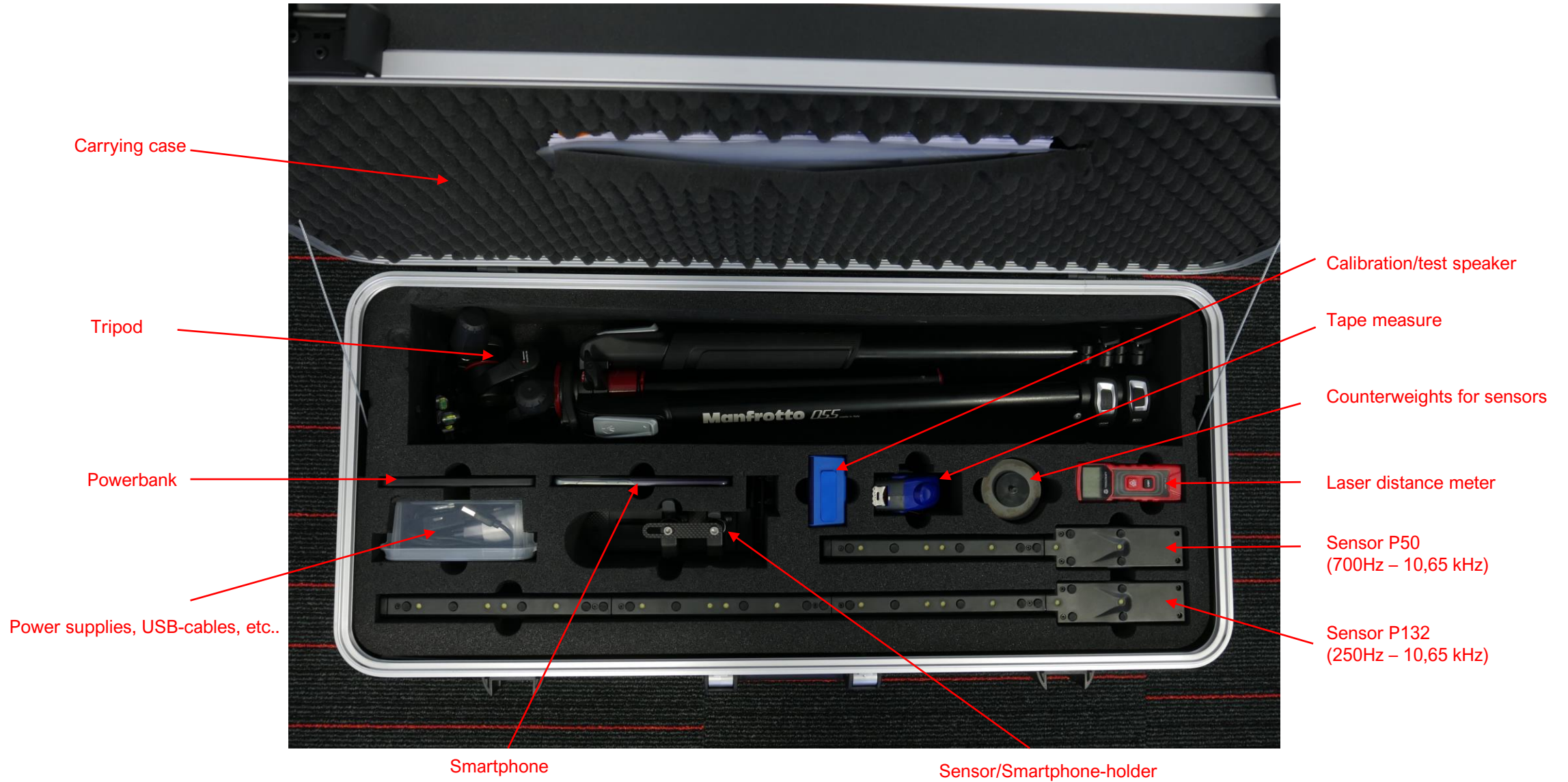


How to set up the  
system

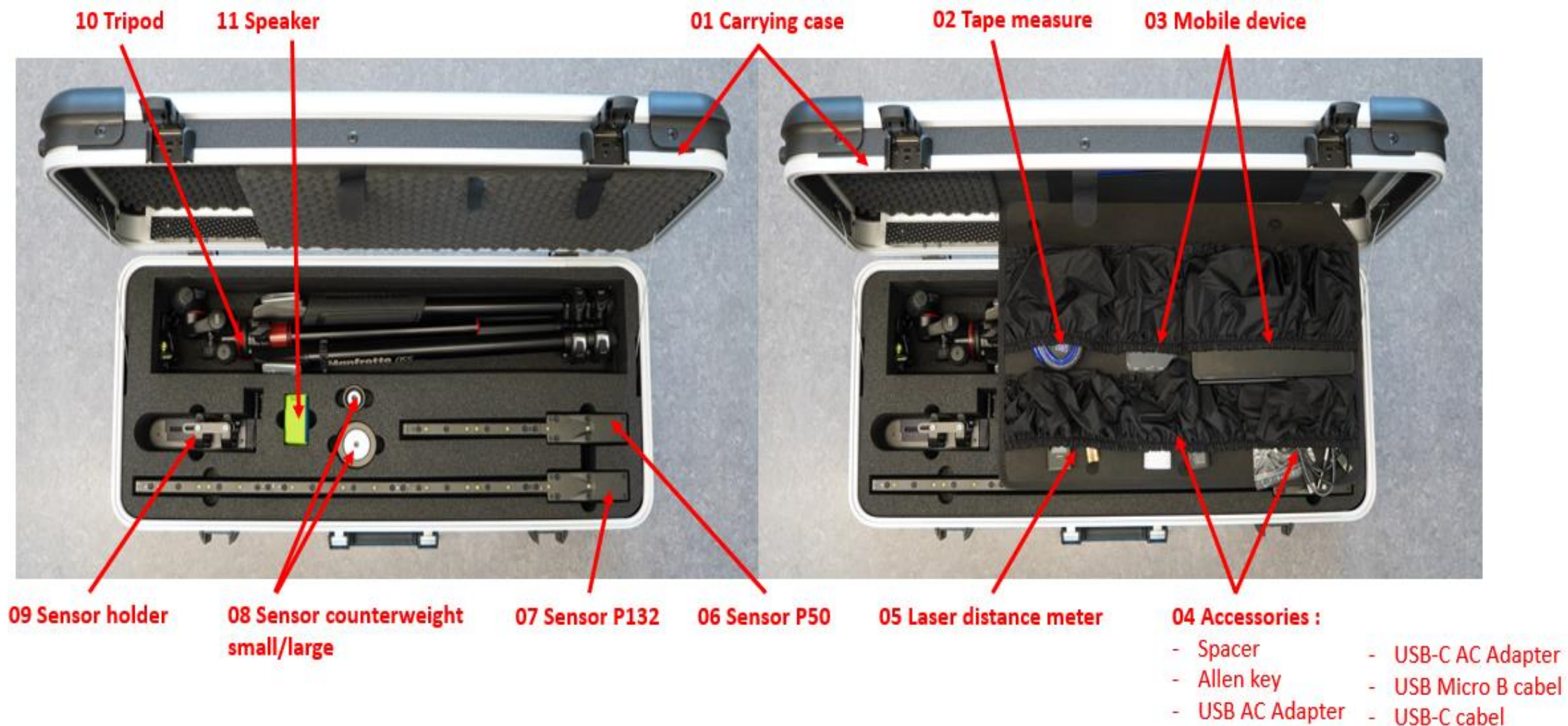
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# How to set up the system



# How to set up the system



# How to set up the system



adjust height as needed



# How to set up the system



# How to set up the system

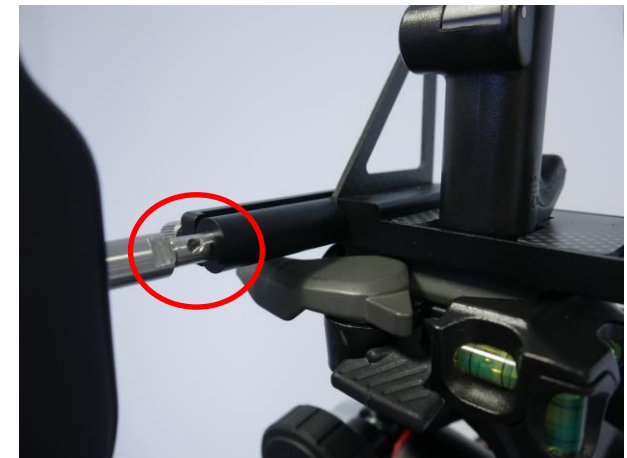


# How to set up the system

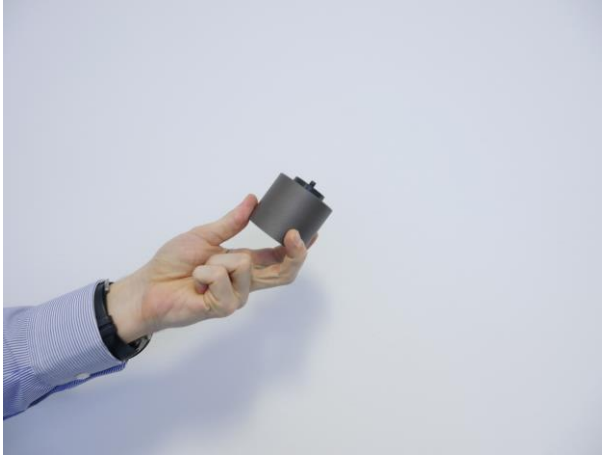




# How to set up the system



# How to set up the system



# How to set up the system





How to calibrate  
the system

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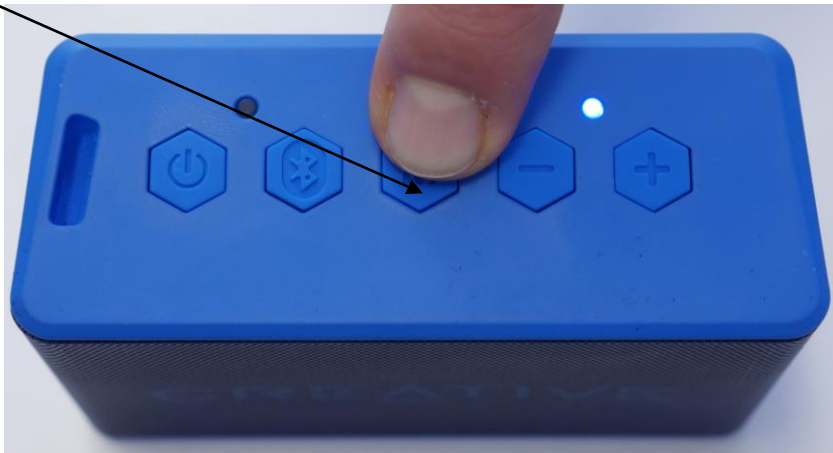
# How to calibrate the system

1. Set up the system (see: [How to setup the system](#))
2. Place calibration speaker in front of the sensor
3. activate „white noise“ on the calibration speaker
4. Perform measurement (see: [How to perform a measurement](#))

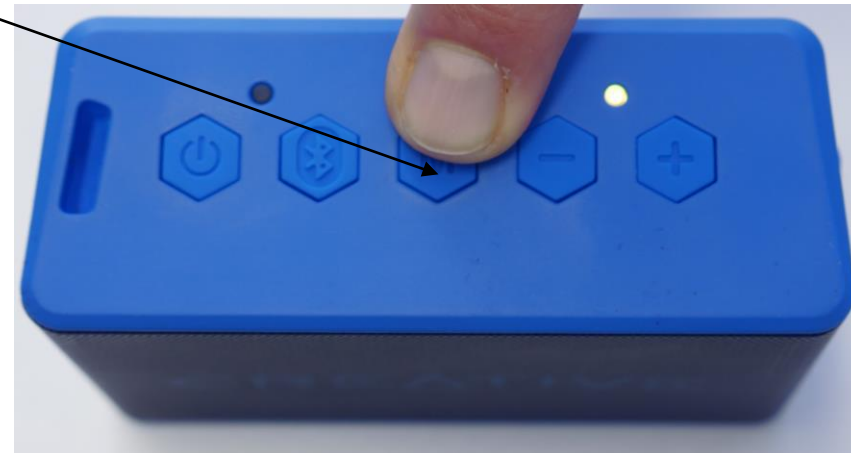
1. ON/OFF



2. Press „M“

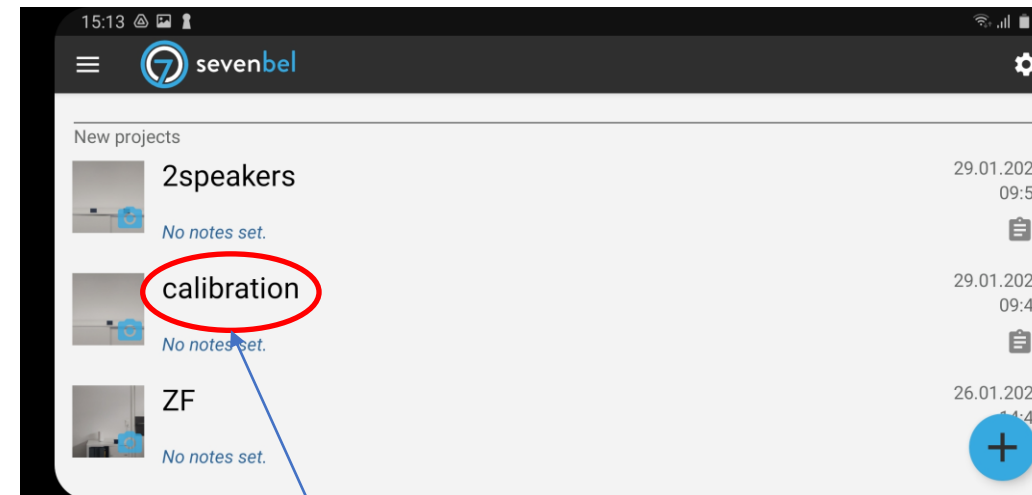


2. Press „M“ again = orange LED – „white noise“ activated

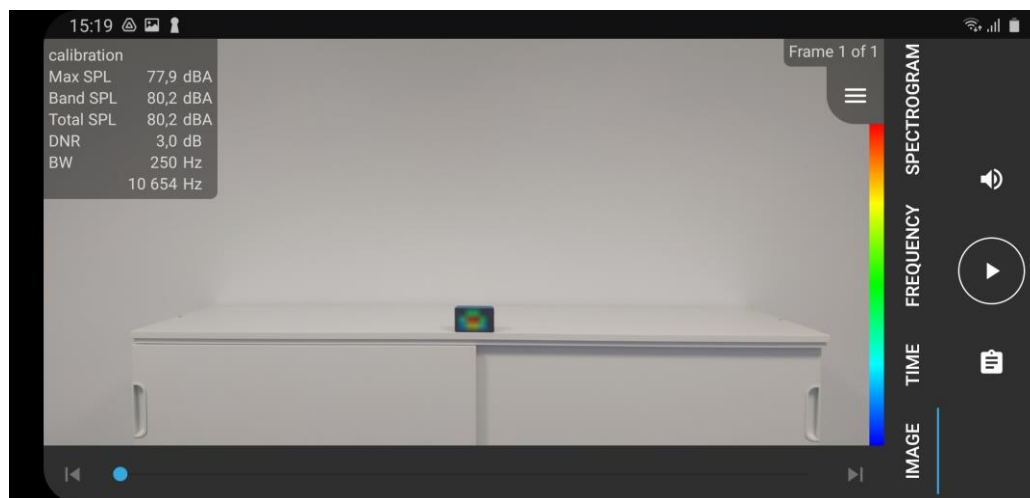


# How to calibrate the system

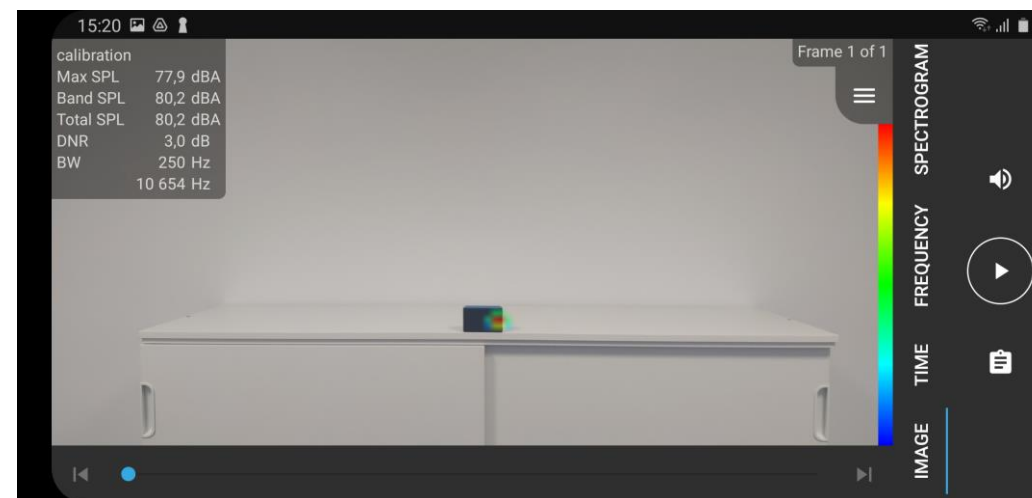
## PERFORM MEASUREMENT



1. open the measurement by tapping the file-name

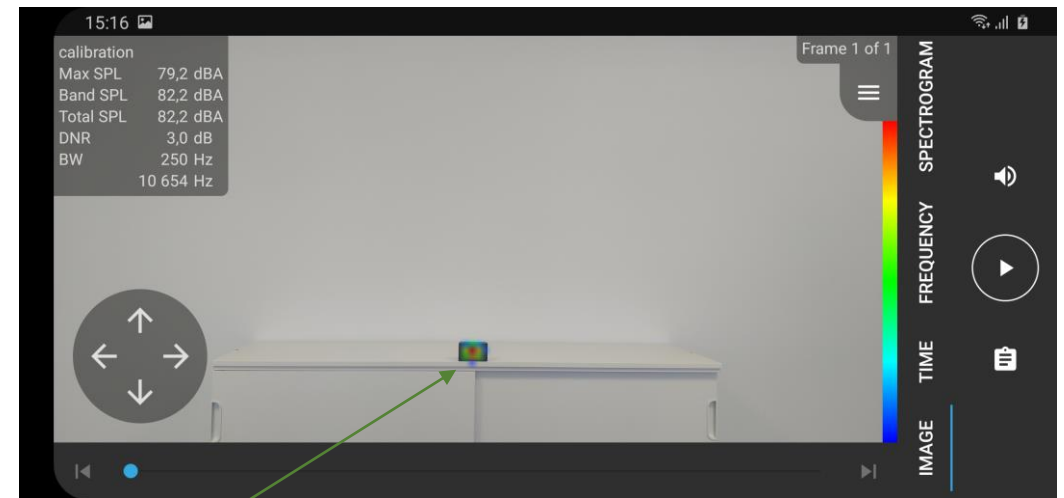
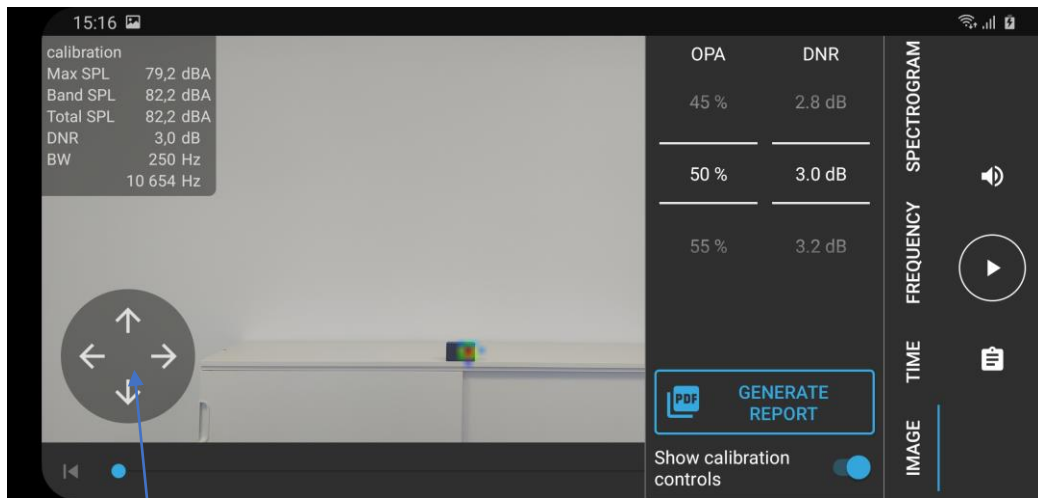
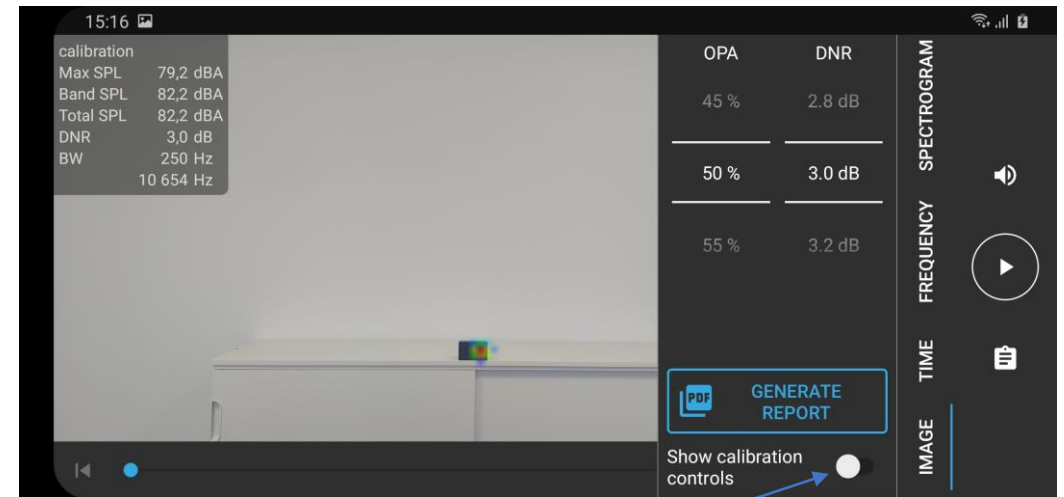
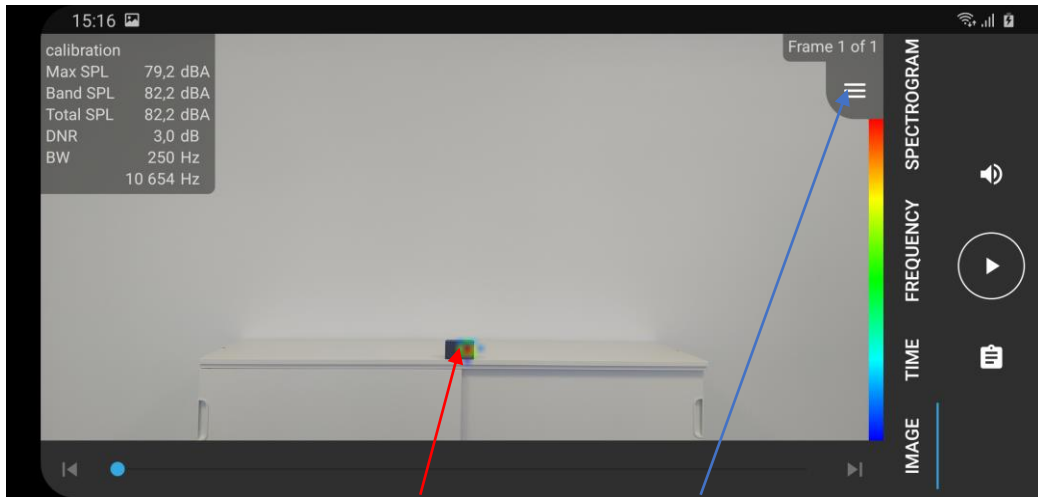


NO calibration necessary – everything OK!

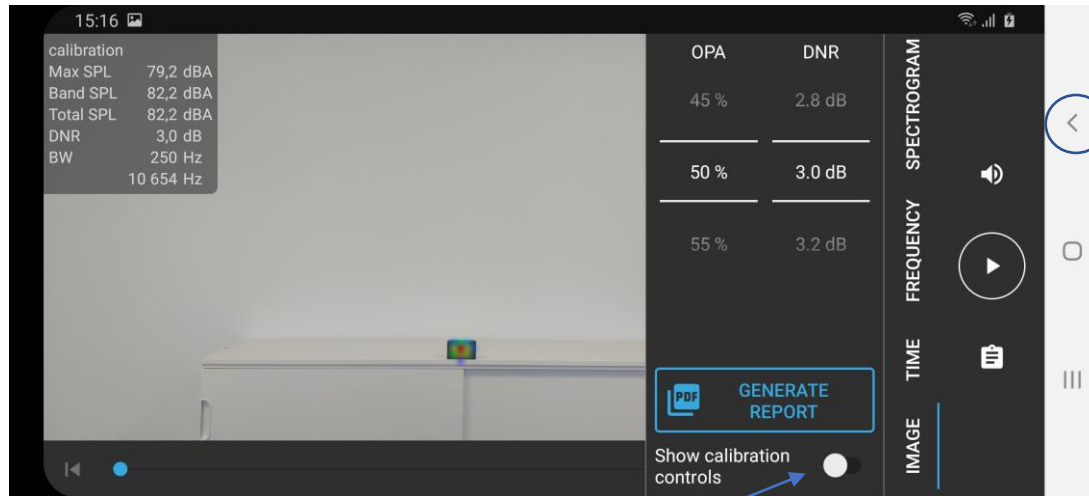


calibration necessary – overlapping must be adjusted (see next page)

# How to calibrate the system



# How to calibrate the system



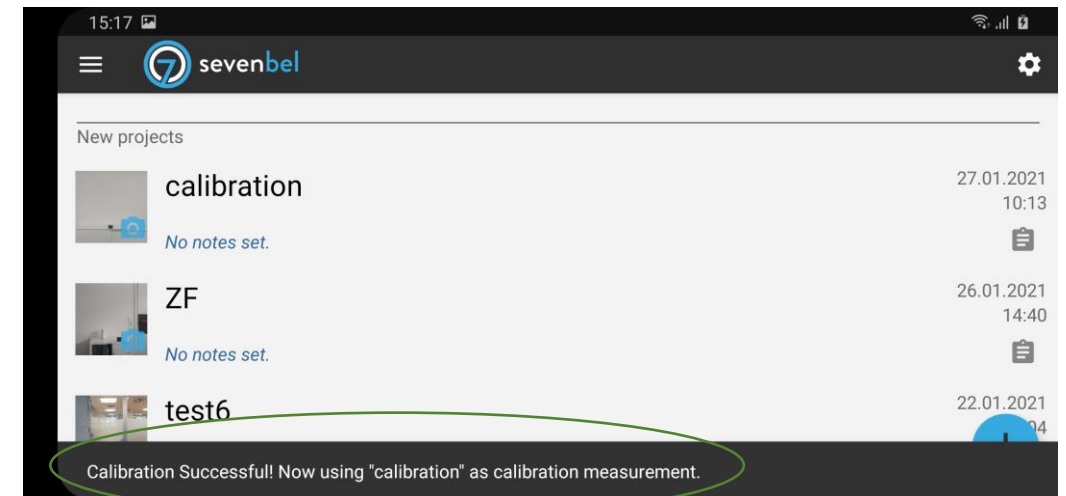
6. disable slider

7. back to main menu

## Note:

Perform the calibration for vertical and horizontal orientation of the mobile device

Calibration has not to be done before every measurement



Message: „Calibration successful.....“ appears

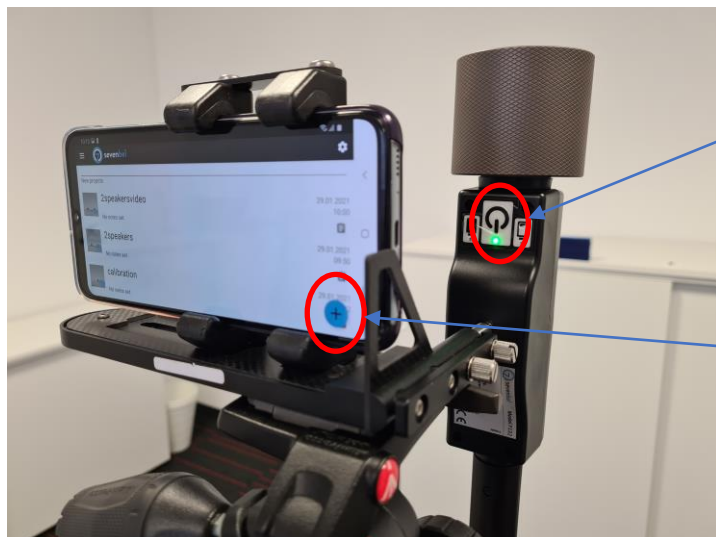




How to perform a  
measurement

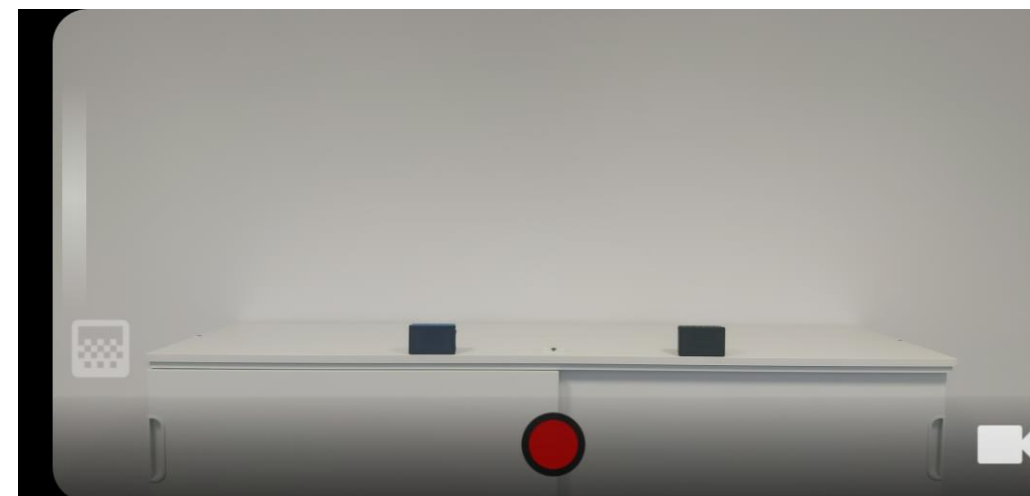
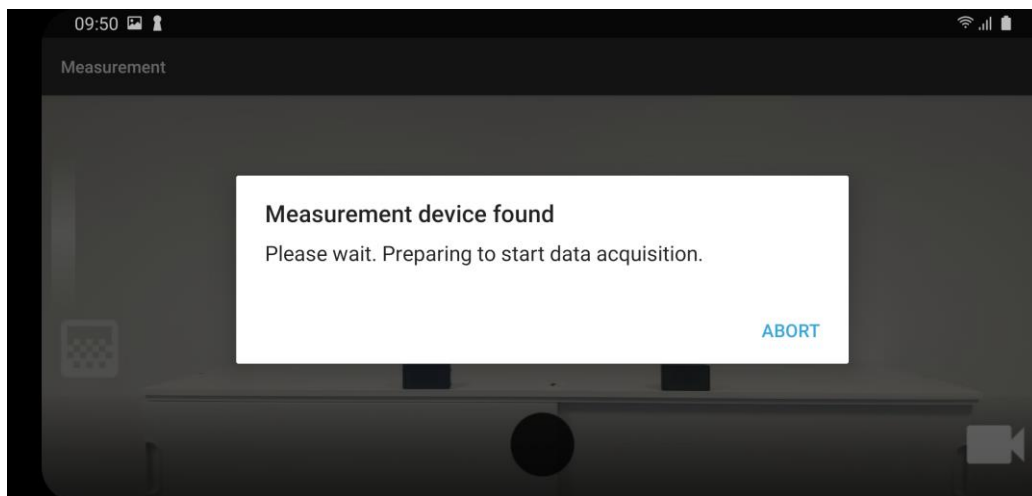
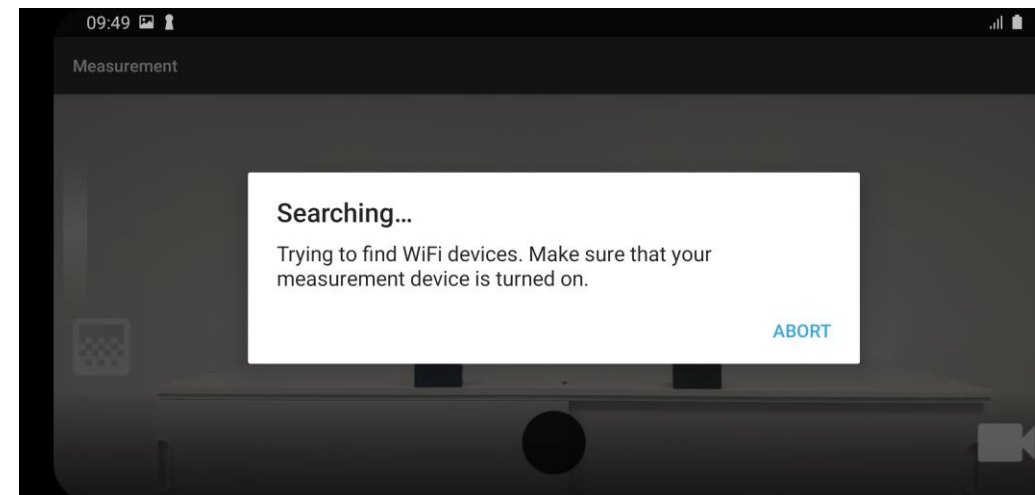
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# How to perform a measurement – PICTURE MODE



1. Turn the sensor ON

2. Press „+“ to start measurement



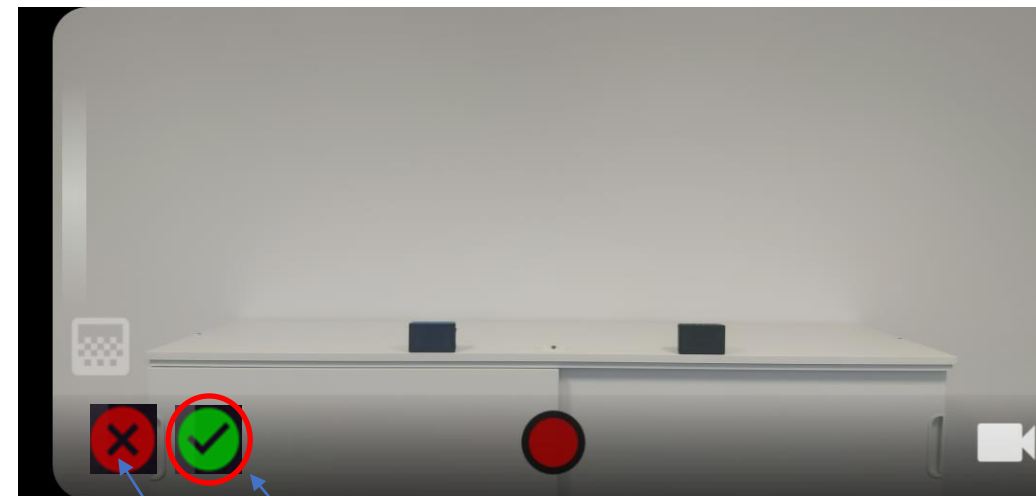
System is now ready to measure

# How to perform a measurement – PICTURE MODE

push sensor

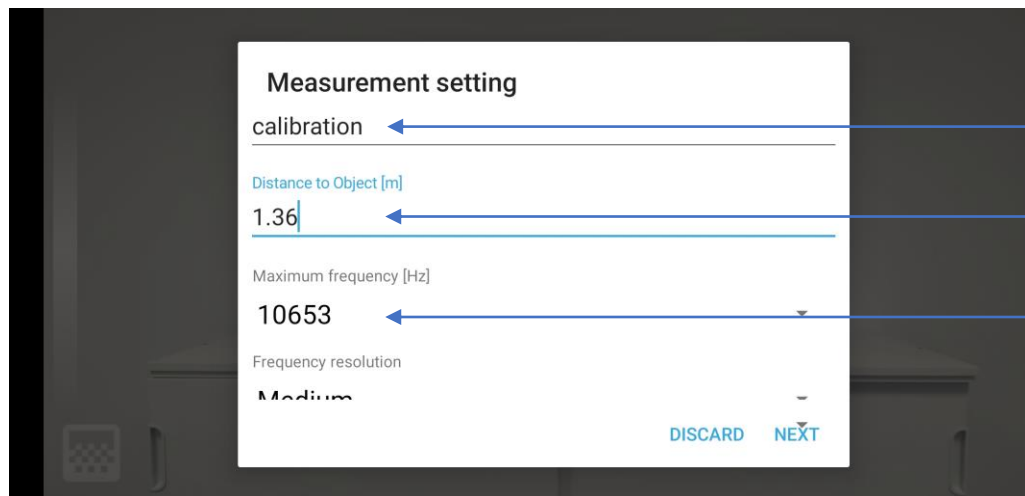


1,2 – 1,7 sec.



3. Press „OK“ to confirm and stop measurement

(Press „X“ to stop measurement and to repeat)

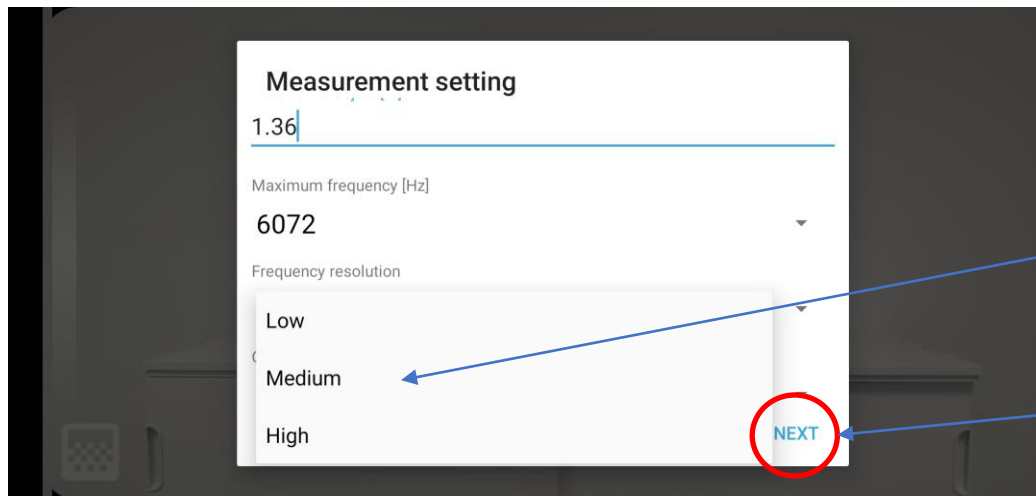


4. Input measurement name

5. Input distance between sensor and object (see: [„How to use the distance laser“](#))

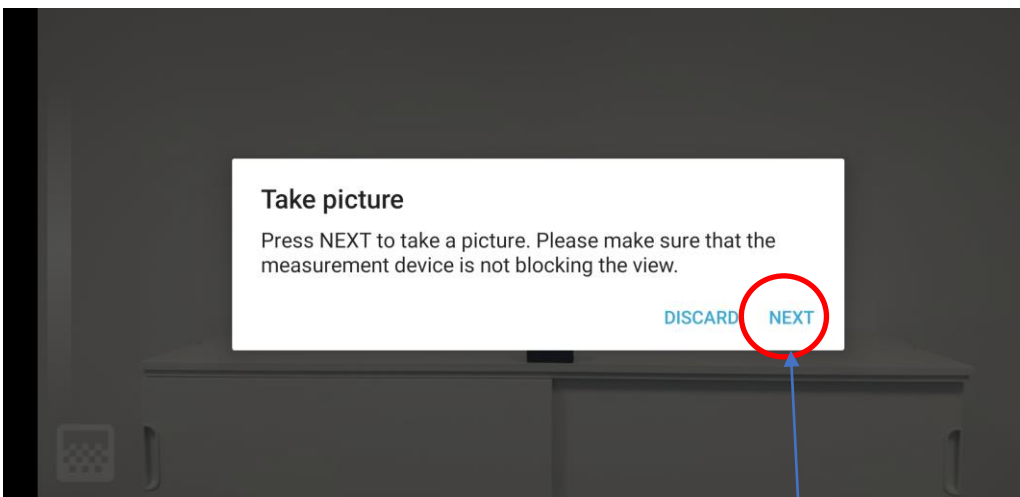
6. Choose max. frequency (for calculation in the cloud)

# How to perform a measurement – PICTURE MODE

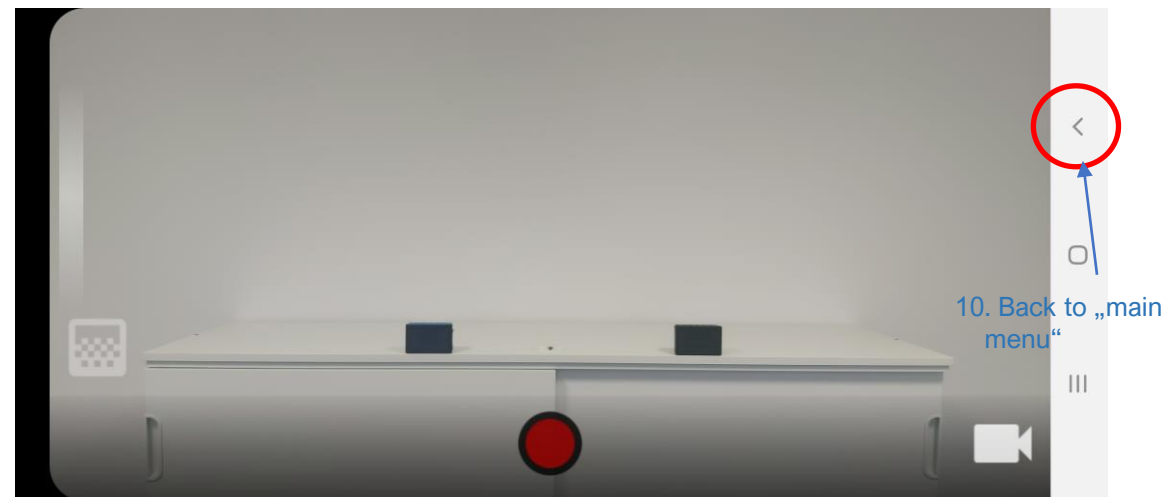


7. Choose frequency resolution (for calculation in the cloud)

8. Press „NEXT“

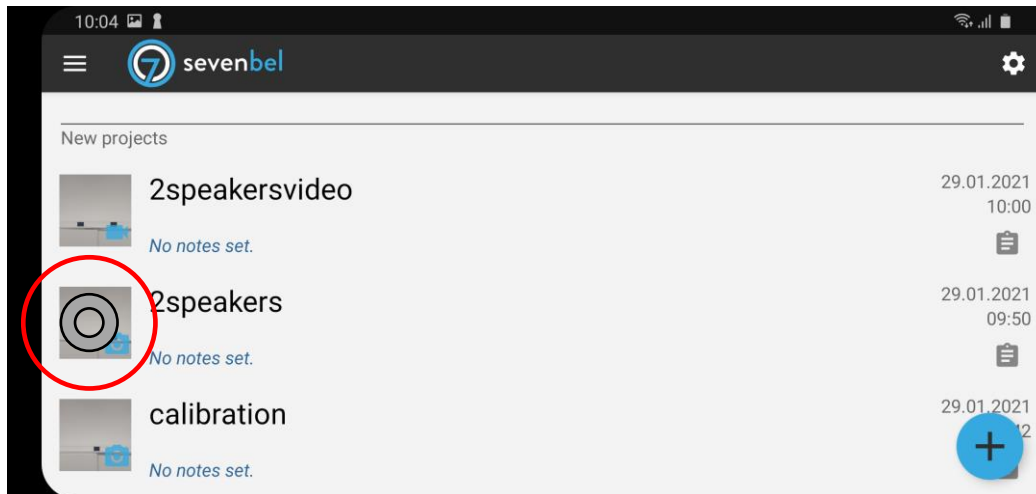


9. Press „NEXT“

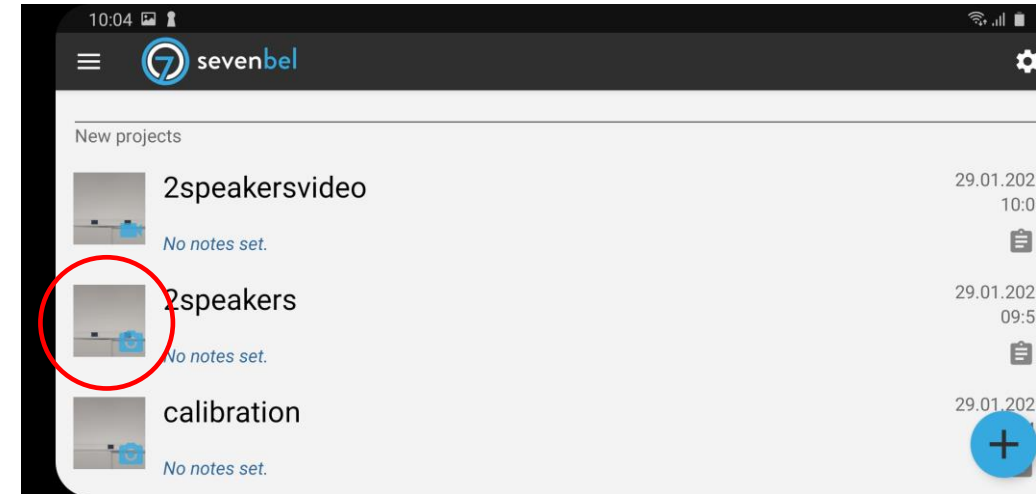


10. Back to „main menu“

# How to perform a measurement – PICTURE MODE



„grey donut“: project is sent to cloud and will be processed



as soon as the „grey donut“ disappears – project is ready to analyze – click on the file-name to open

**BACK TO  
„CALIBRATION“**

**HOW TO ANALYZE  
A PROJECT**

2speakers  
Max SPL 82,5 dBA  
Band SPL 85,1 dBA  
Total SPL 85,1 dBA  
DNR 11,8 dB  
BW 250 Hz  
10 654 Hz

Frame 1 of 1

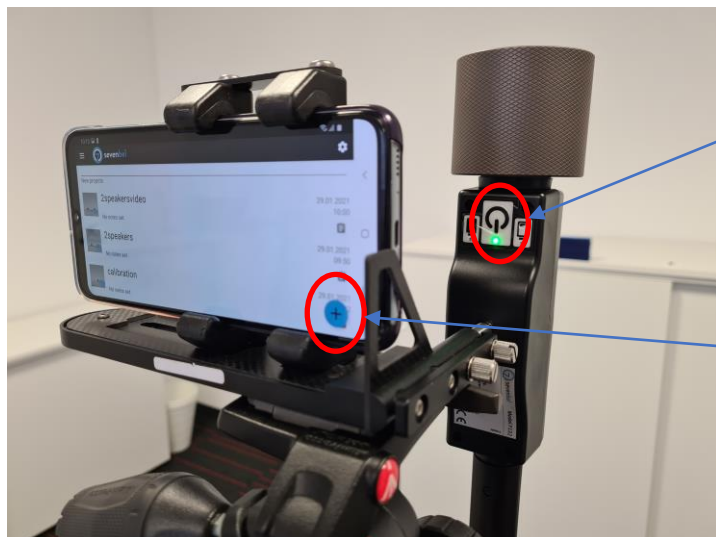


IMAGE TIME FREQUENCY SPECTROGRAM

How to perform a measurement  
—  
VIDEO MODE

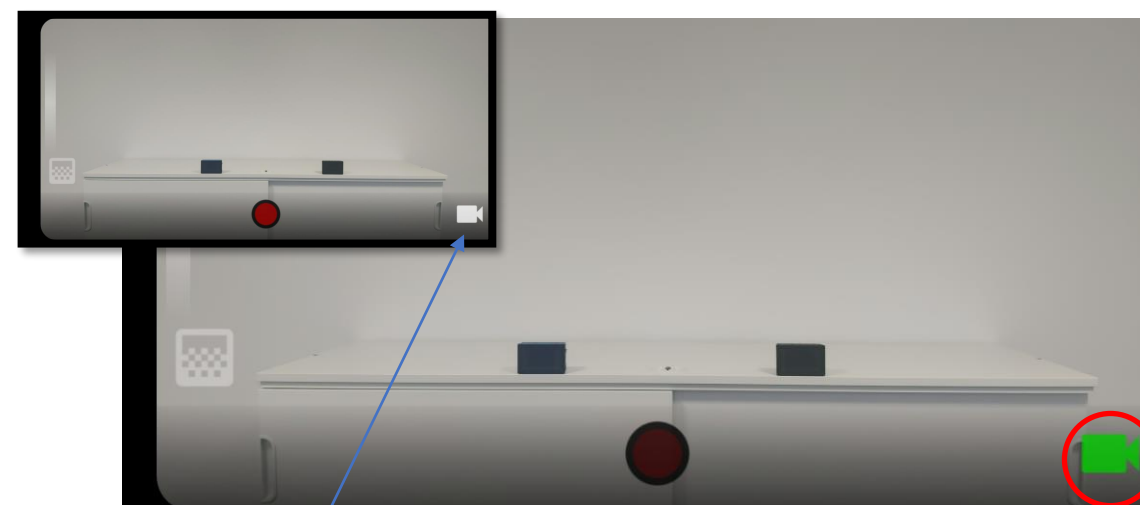
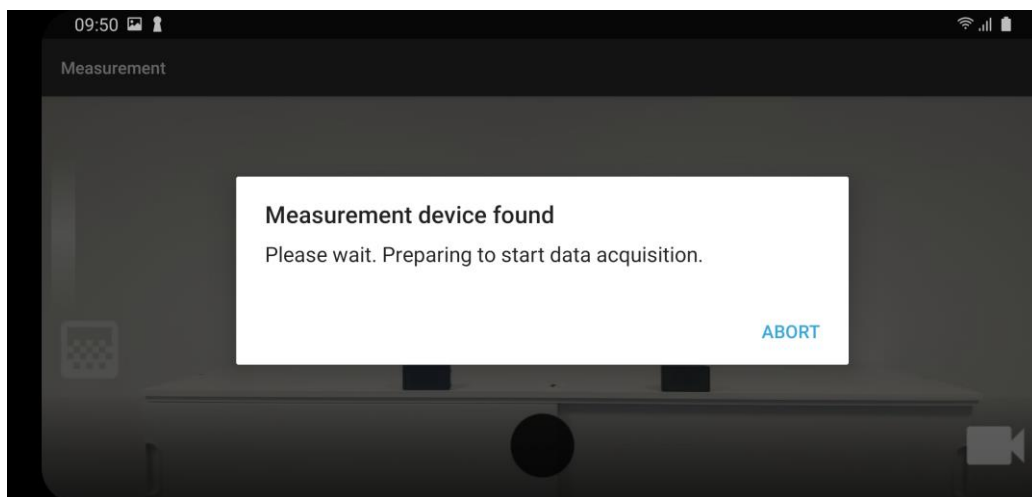
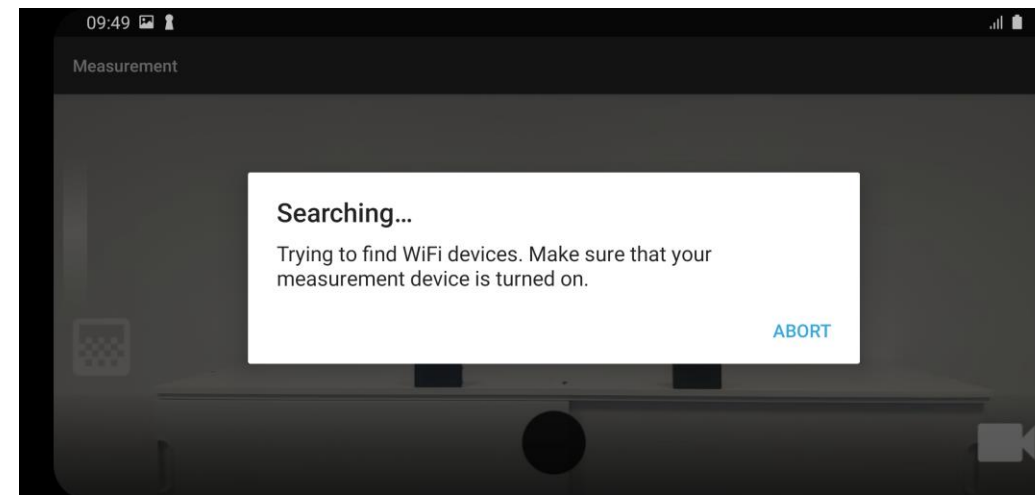


# How to perform a measurement – VIDEO MODE



1. Turn the sensor ON

2. Press „+“ to start measurement

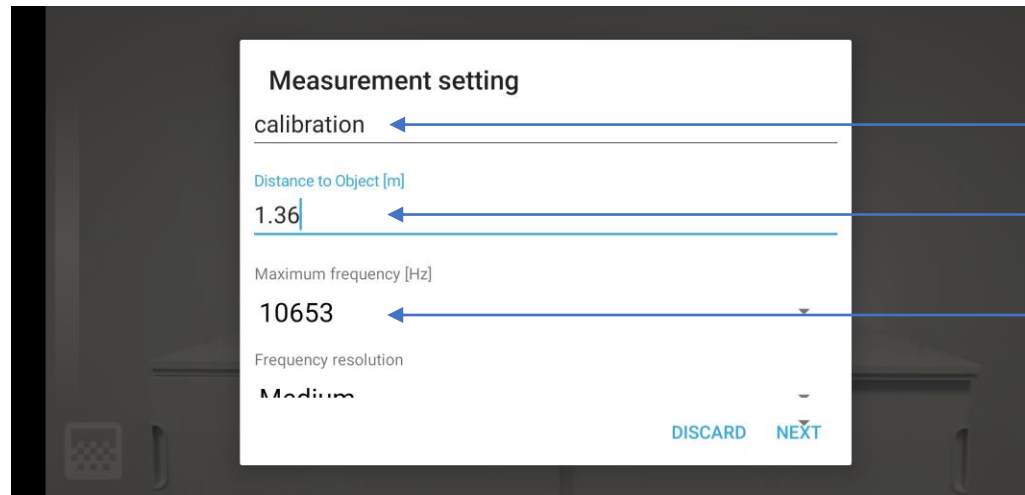
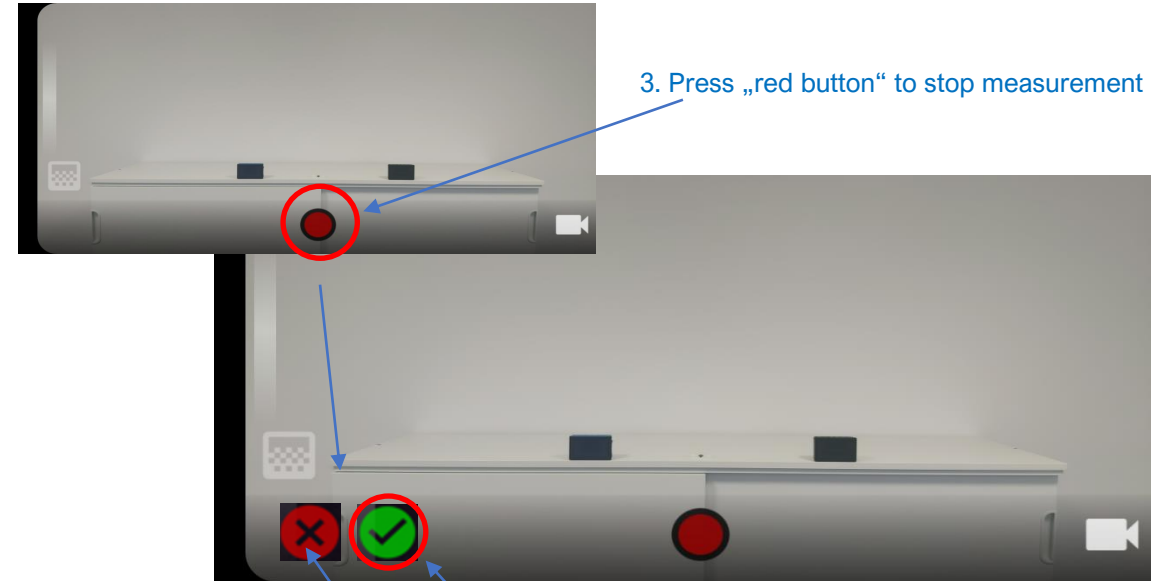


3. Press the symbol to switch to „video-mode“

„video-mode“ activated

# How to perform a measurement – VIDEO MODE

push sensor and (re)accelerate whenever necessary



5. Input measurement name

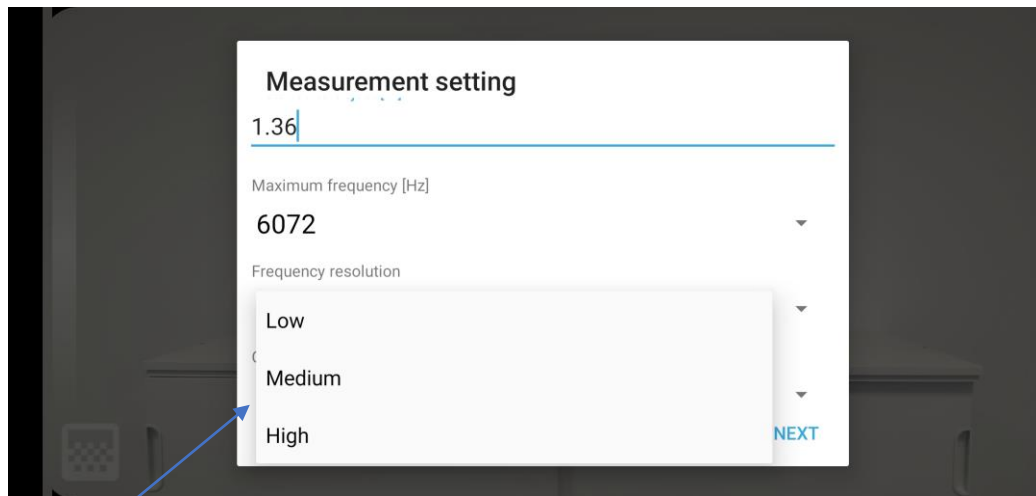
6. Input distance between sensor and object (see: [„How to use the distance laser“](#))

7. Choose max. frequency (for calculation in the cloud)

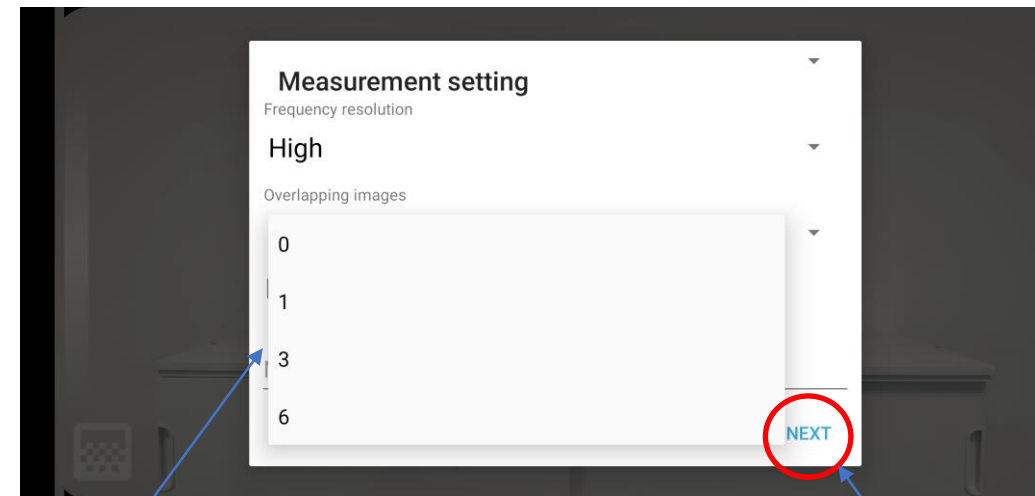
(Press „X“ to stop measurement and to repeat)



# How to perform a measurement – VIDEO MODE

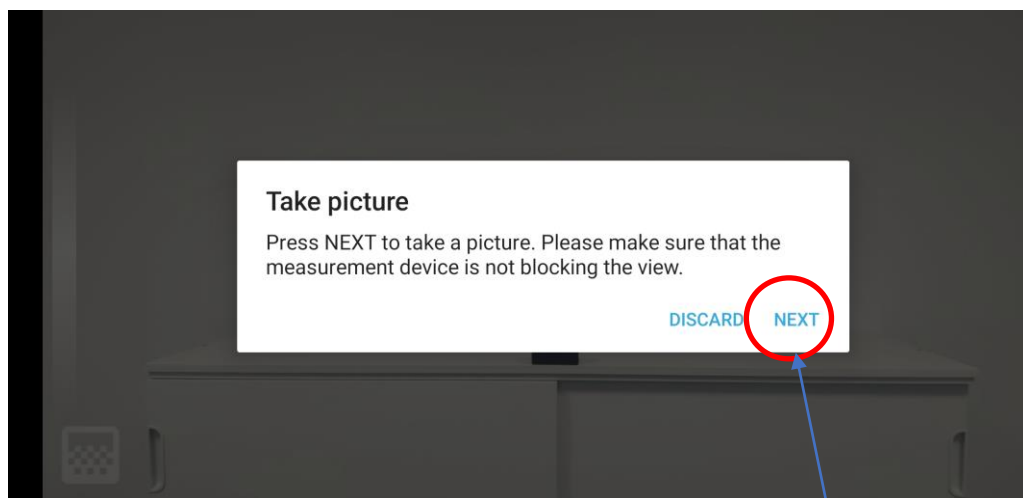


8. Choose frequency resolution (for calculation in the cloud)

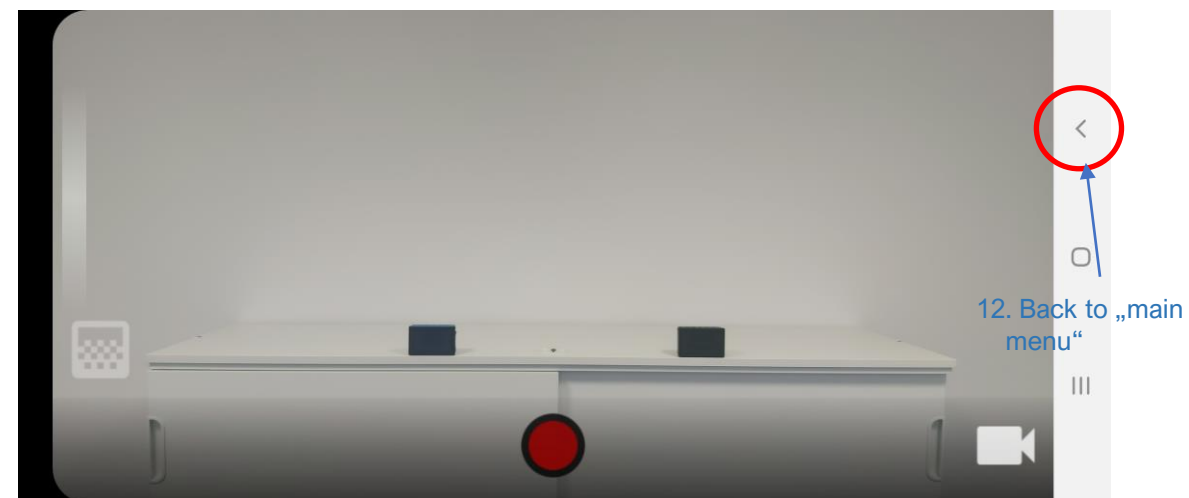


9. Choose the number of „images per second“ for the video

10. Press „NEXT“

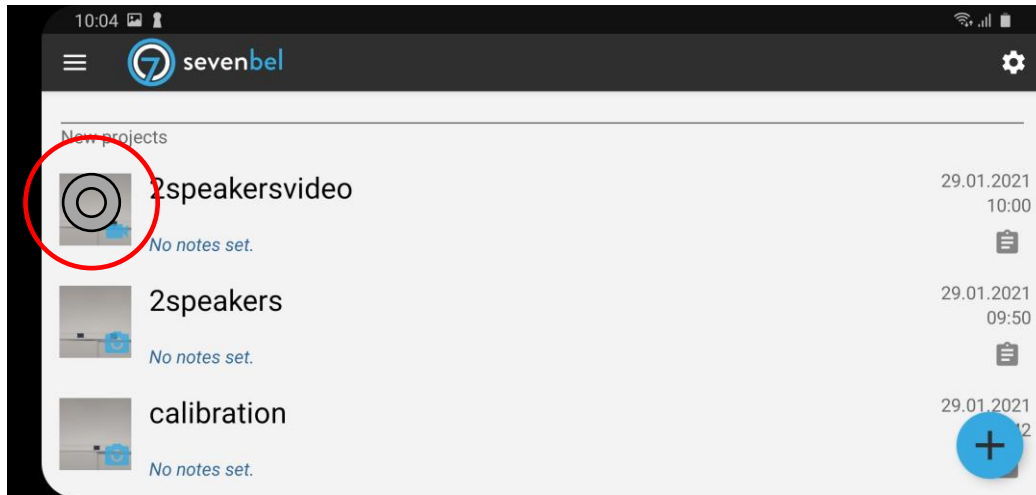


11. Press „NEXT“

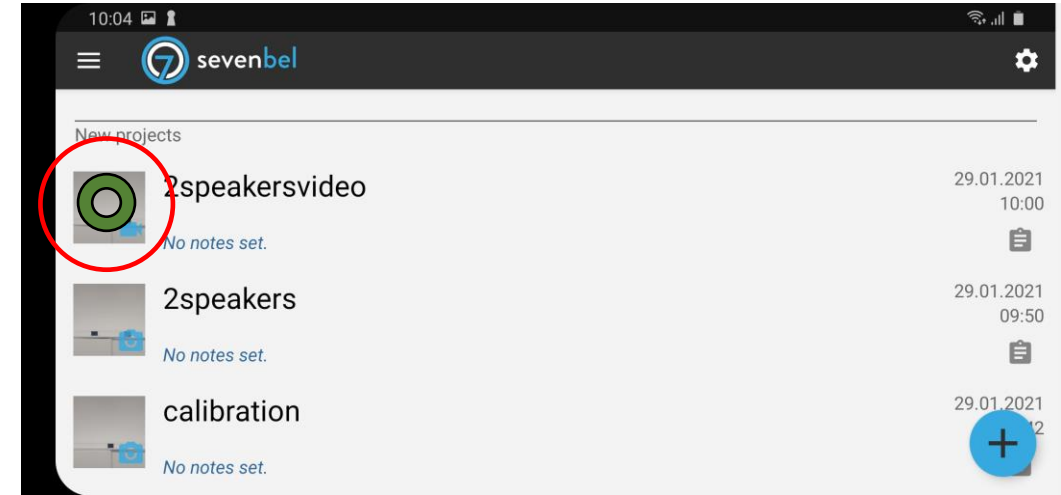


12. Back to „main menu“

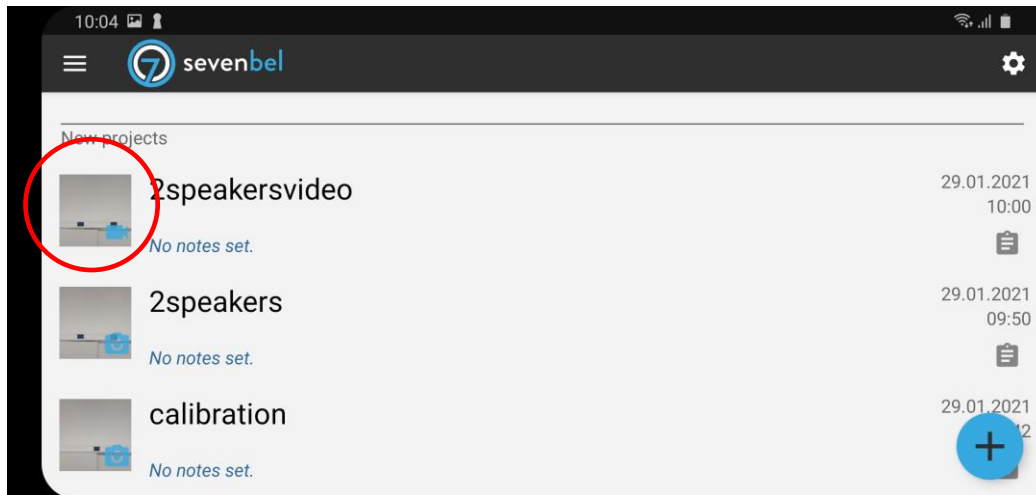
# How to perform a measurement – VIDEO MODE



„grey donut“: project is sent to cloud and will be processed

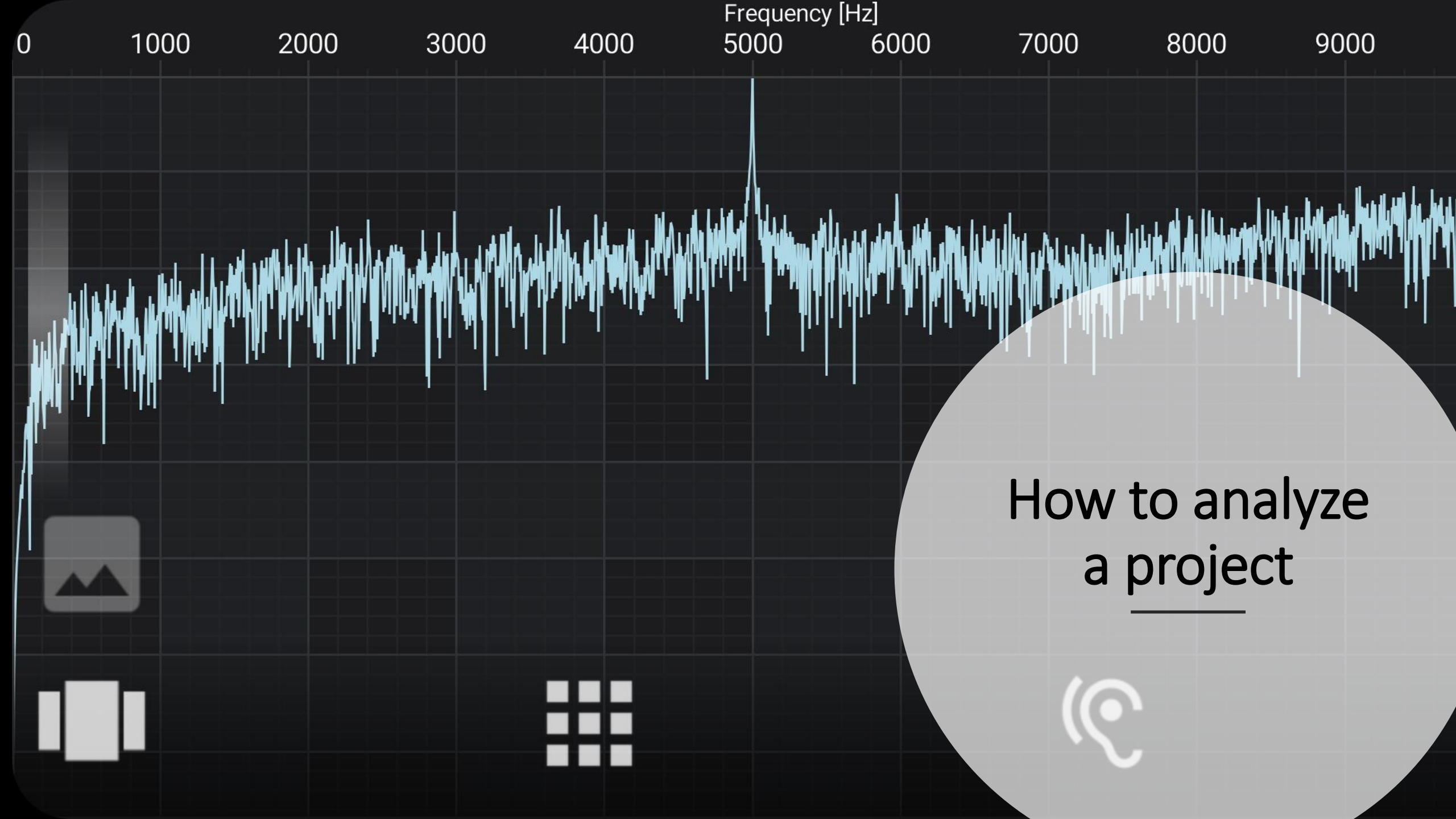


„green donut“: project is processed and result is actually downloading

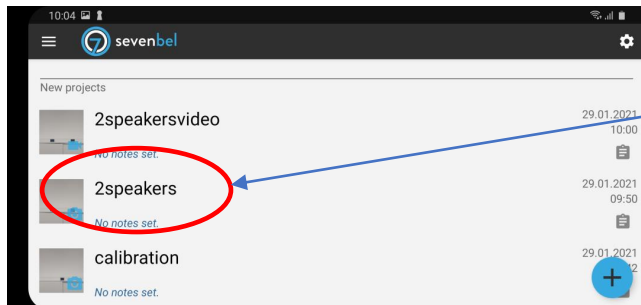


as soon as the „grey donut“ disappears – project is ready to analyze – click on the file-name to open

**HOW TO ANALYZE  
A PROJECT**



# How to analyze a project – general explanation



1. access project by clicking on file-name

Sound Pressure Level in the chosen bandwidth (frequency spectrum)

File-name

Max. Sound Pressure Level which is shown in the actual picture (red coloured)

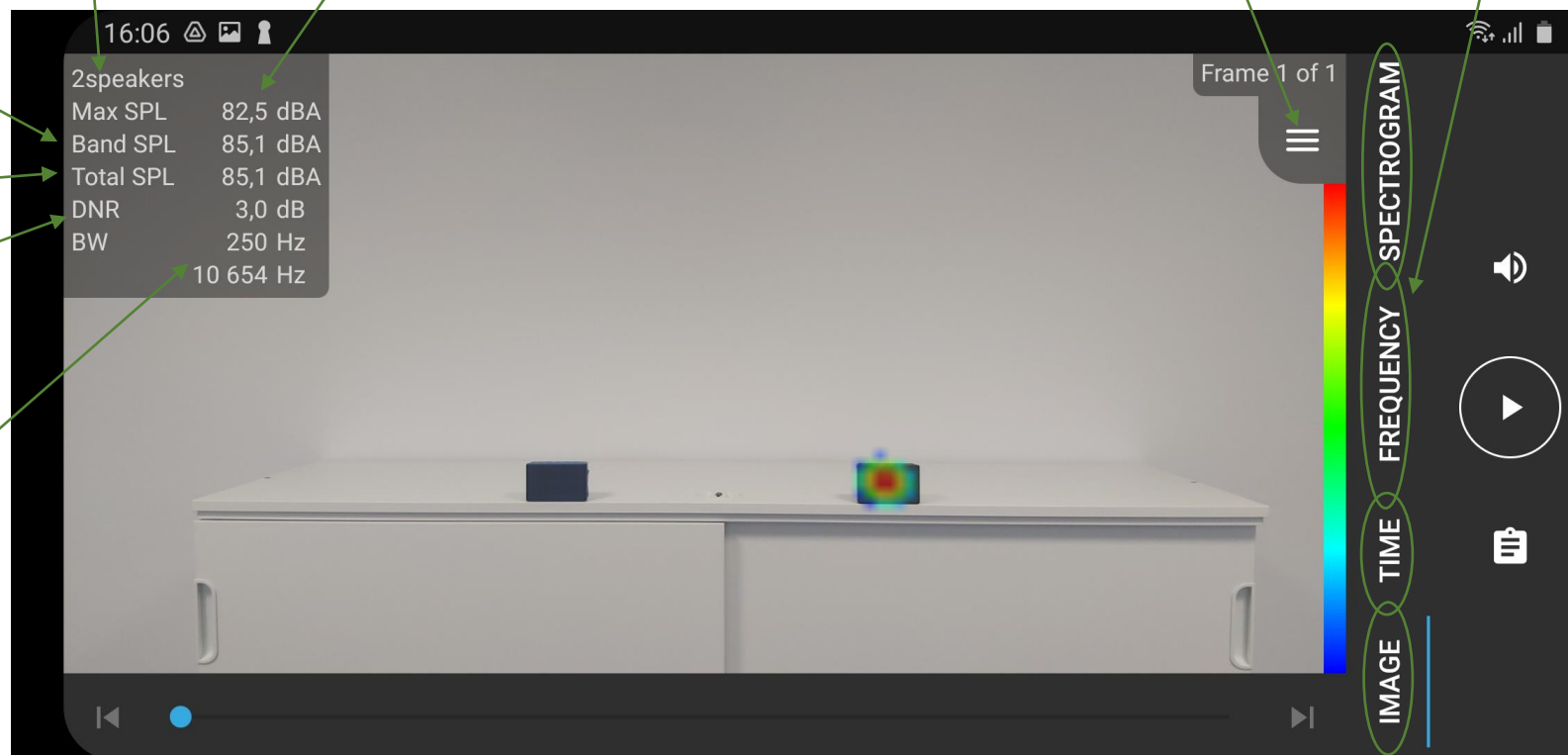
Menu-button for OPA (Opacity), DNR (Dynamic Range), reporting function & calibration

Filter and analyze via misc. possibilities

TOTAL Sound Pressure Level

Dynamic Range: SPL difference(max. SPL – DNR) which is shown in the picture (blue to red)

Bandwidth: frequency range which is actually chosen



Frame 1 of 1

IMAGE TIME FREQUENCY SPECTROGRAM

mute

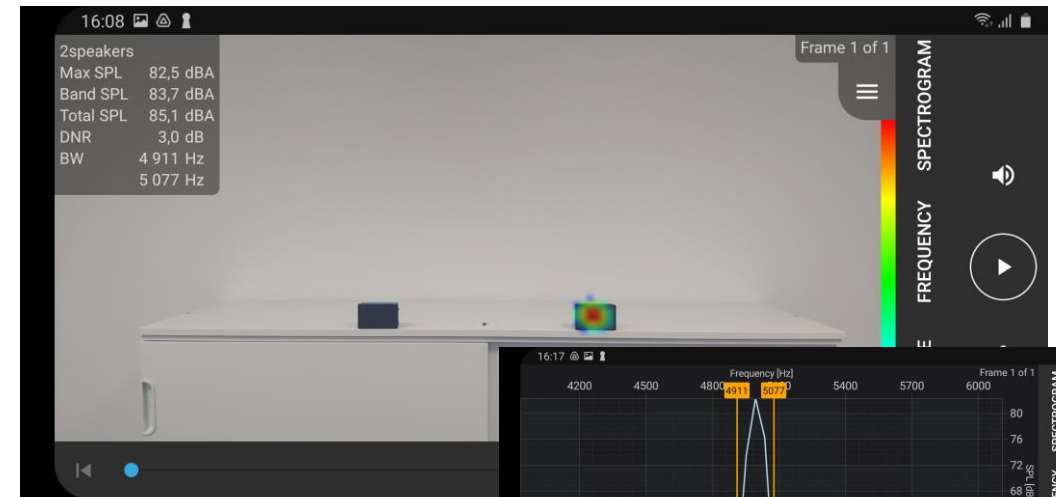
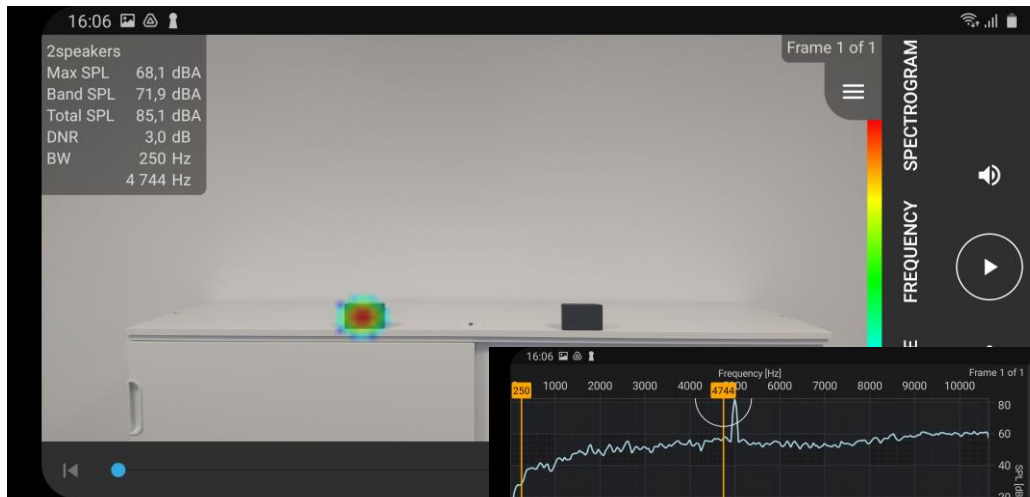
Play audio-file/video

set notes

# How to analyze a project – Frequency/Sound Pressure Level

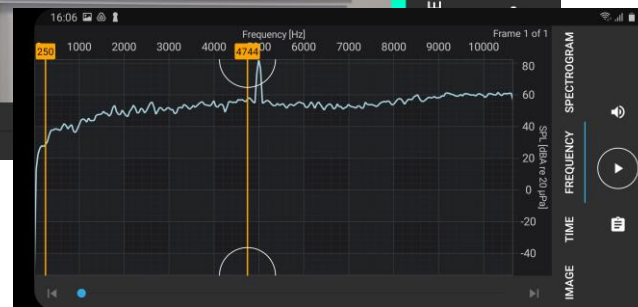


1. tap numeric field – slider can be moved



3. Zoom and move diagram by standard smartphone-gestures

2. adjust slider to your field of interest and switch back to the image

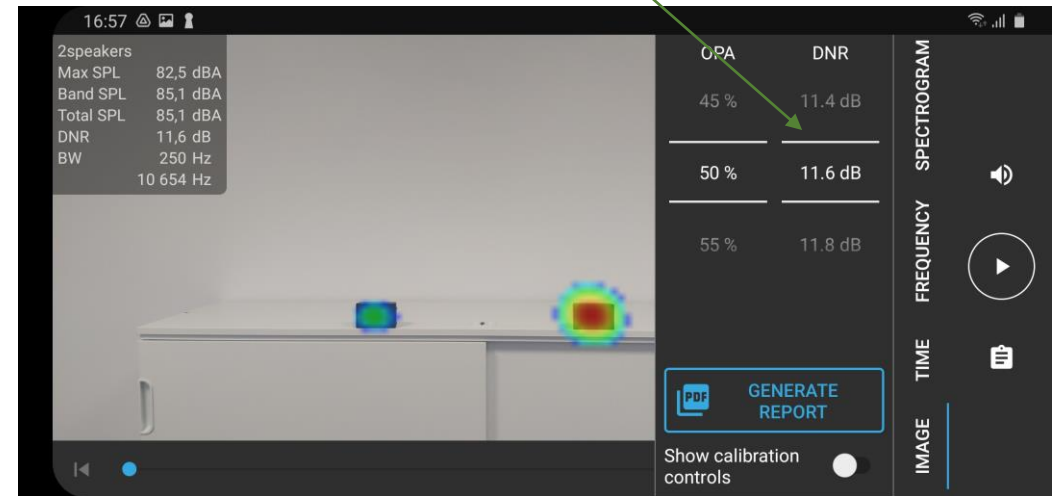
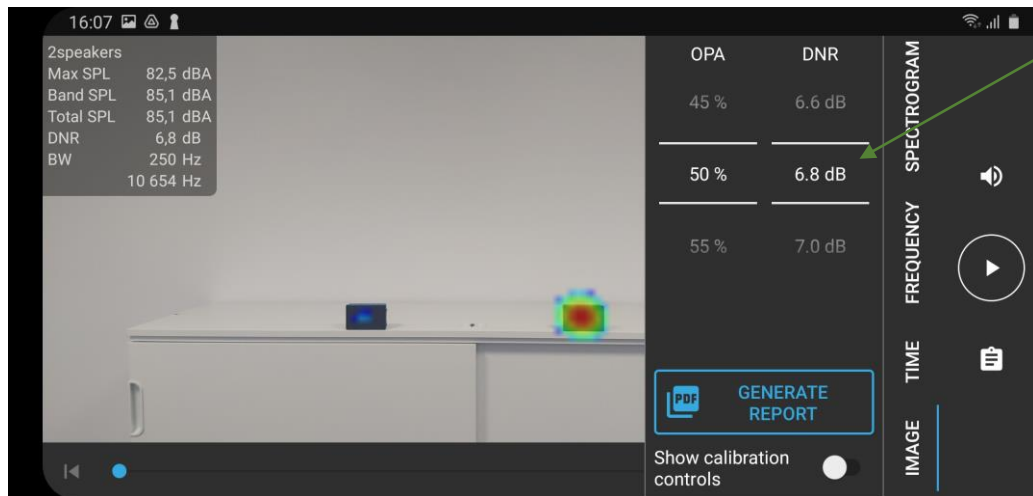


# How to analyze a project – Dynamic Range



1. click „menu“

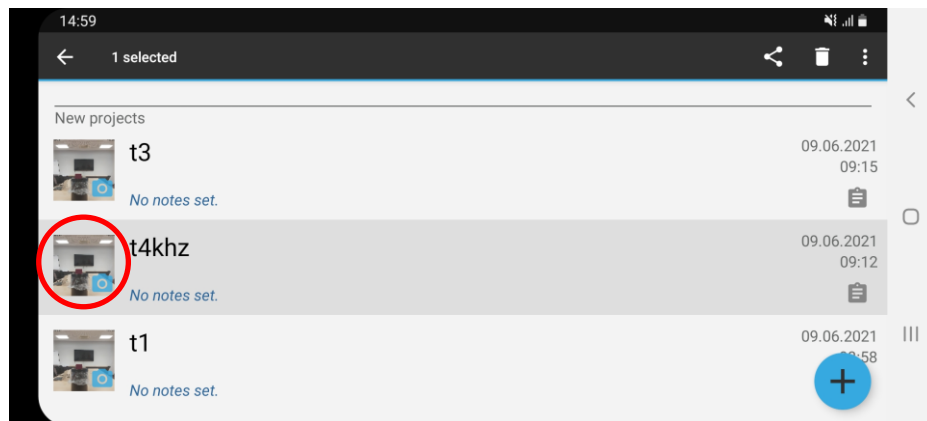
„Dynamic Range“ can be individually adjusted from 0,2 dB to 20 dB



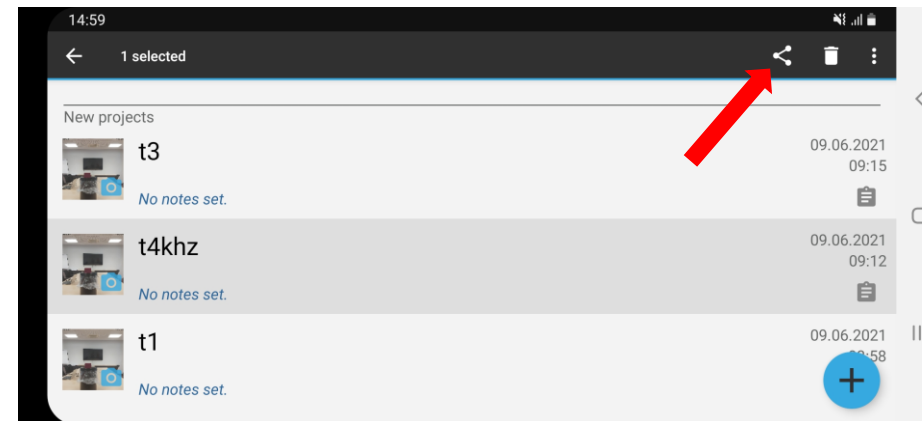


How to send data  
to Seven Bel

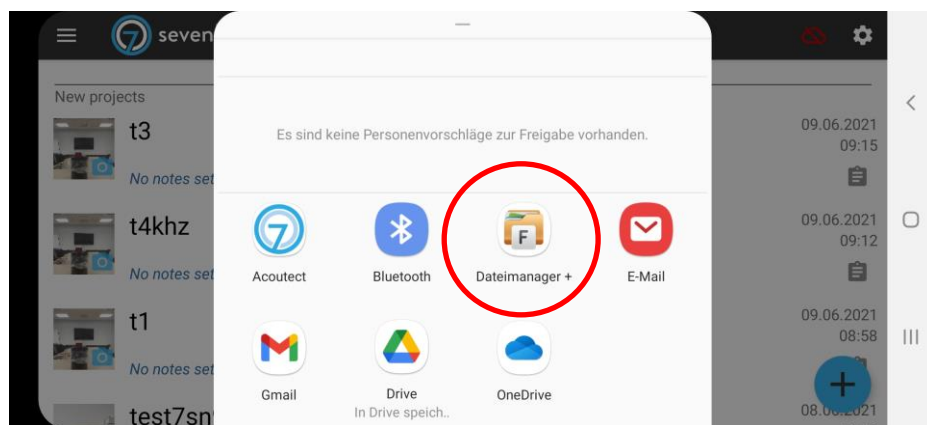
# How to send data to Seven Bel



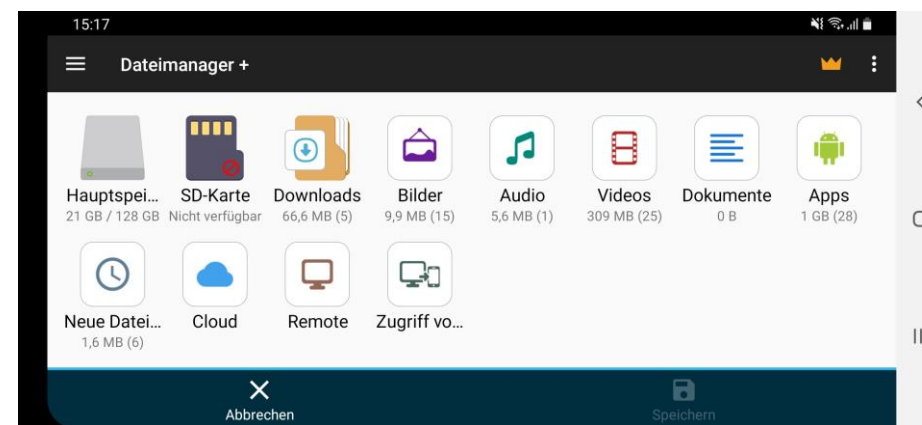
1. select the measurement you want to sent by pressing on the picture



2. Click the share button on the top left



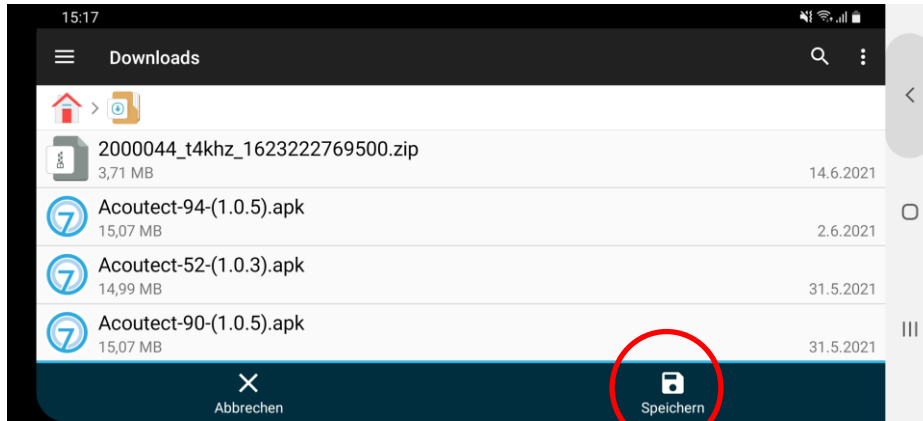
3. select the „Dateimanager +“



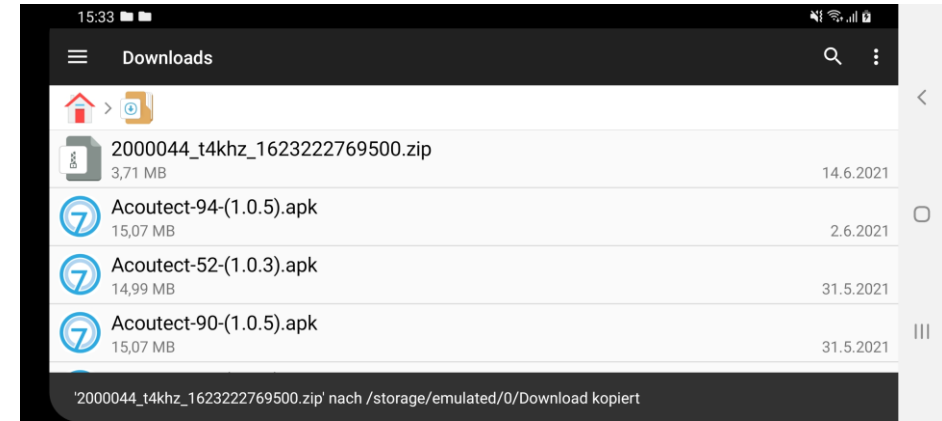
3. Choose a place, preferable „Downloads“, were you want to save the measurement



# How to send data to Seven Bel



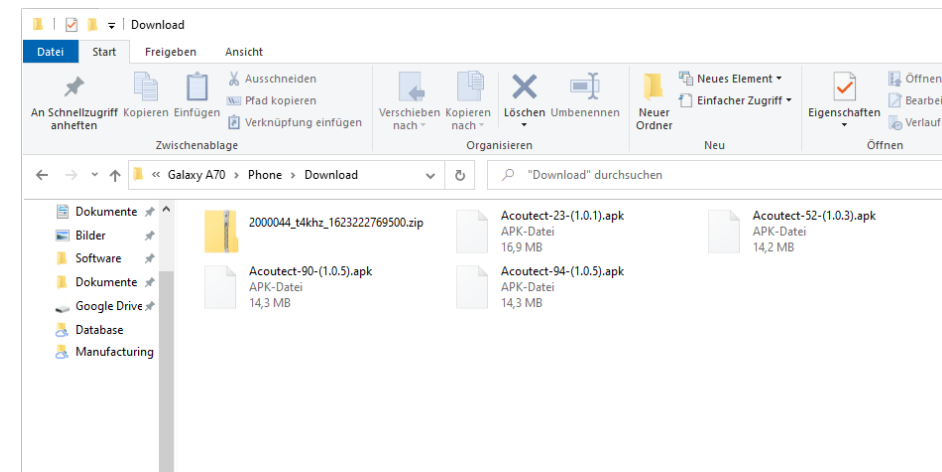
5. Press „Save“ to complete the task



6. If the file is successfully saved, a message will appear at the bottom



7. You can now connect the mobile device with your PC via USB-C cable



8. You will find the zipped data in the folder you chose and can now copy it to your PC and send it with your preferred method to Seven Bel



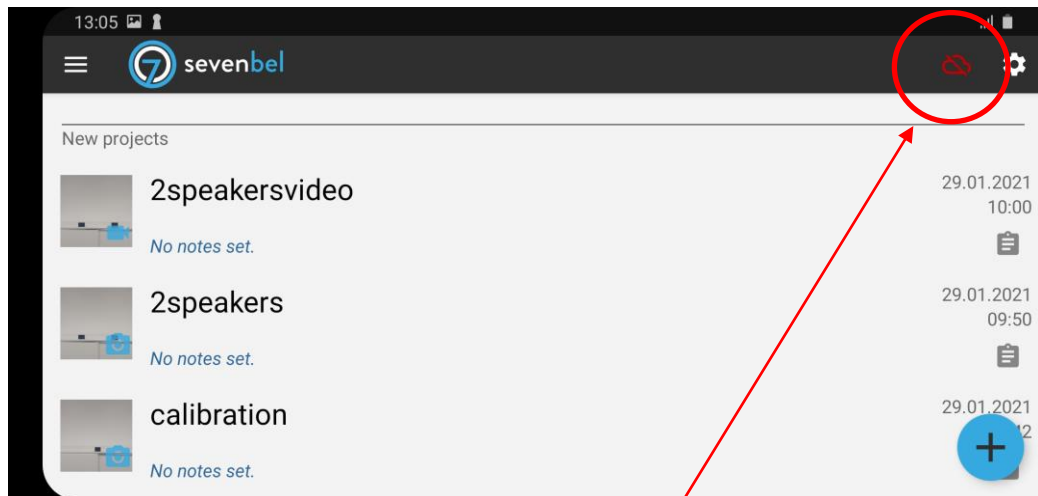
sevenbel  
EFFECTIVE SOUND IMAGING

miscellaneous

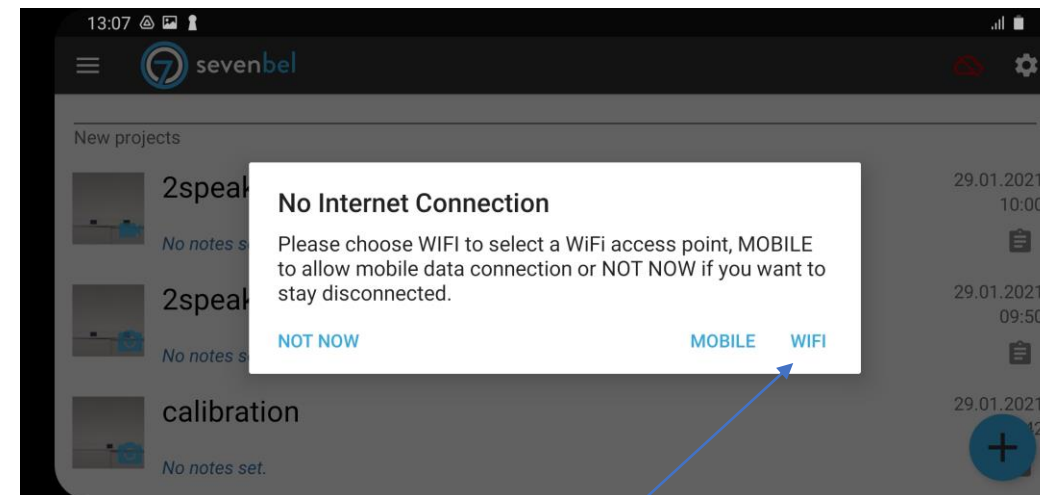
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# How to set up the WIFI-connection

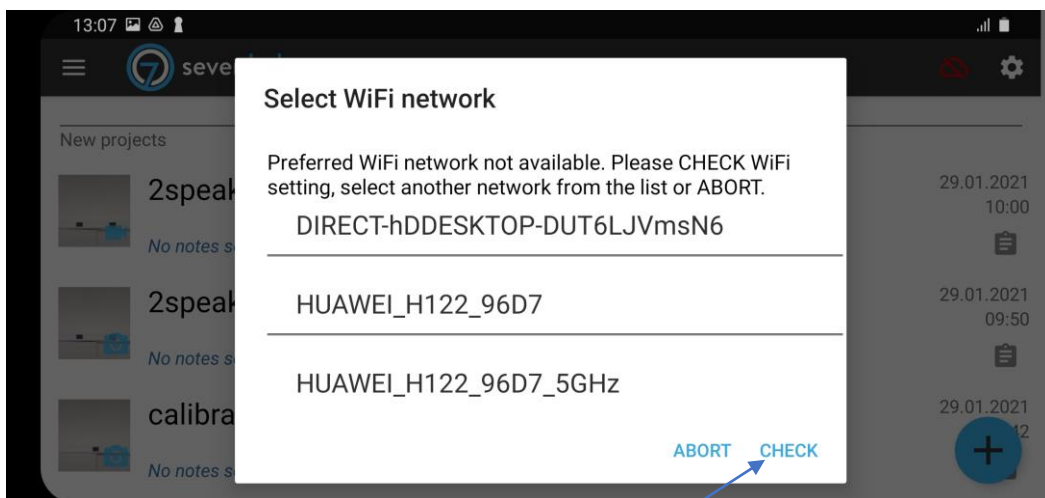
1. press the cloud-symbol



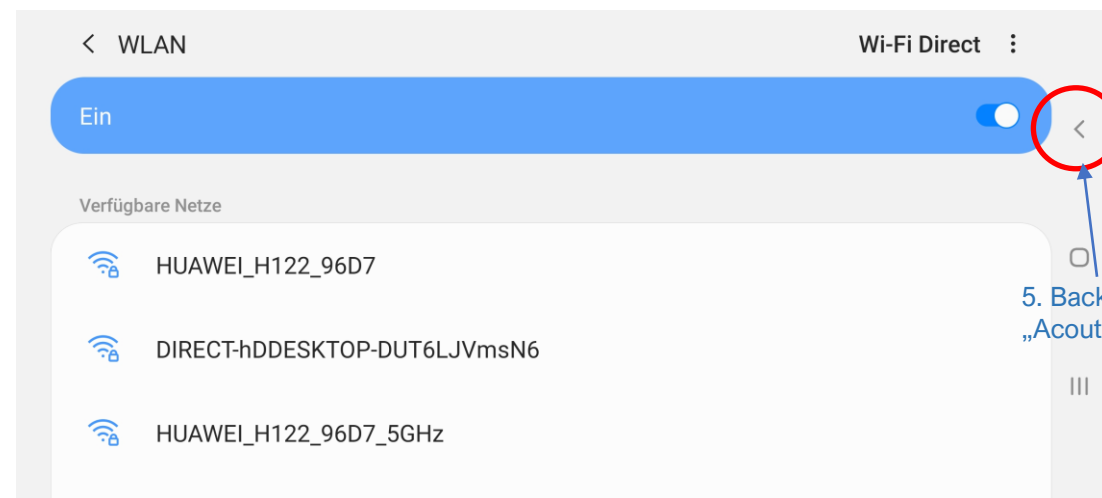
NO INTERNET CONNECTION



1. select „WIFI“



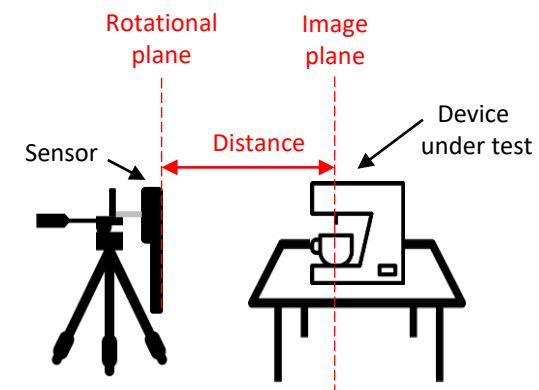
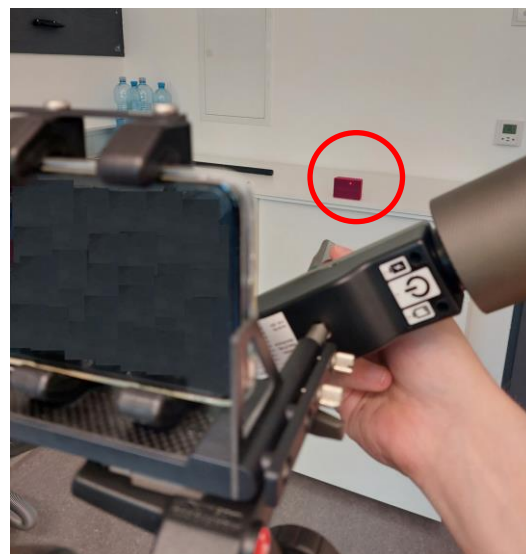
3. select „CHECK“



5. Back to „Acoutect-App“

4. WIFI-menu opens automatically – select your network - input password

# How to use the distance laser meter

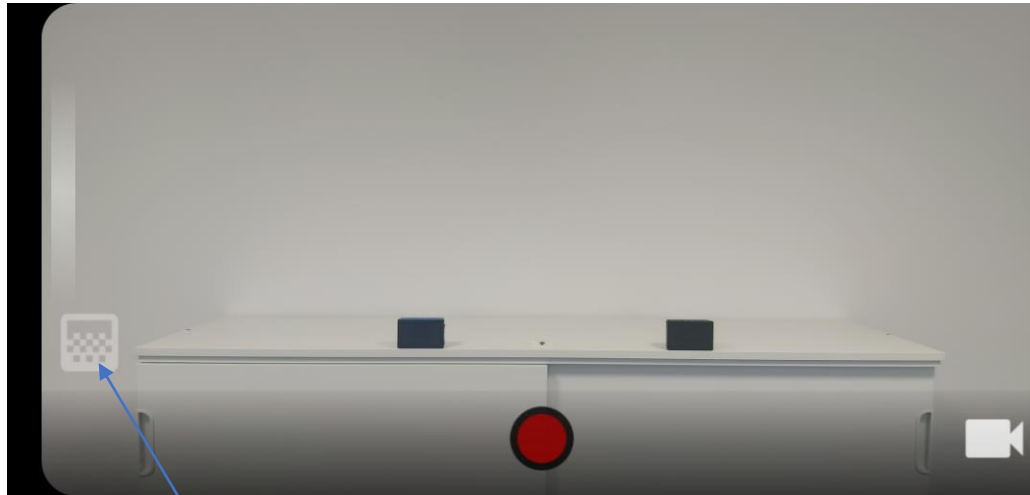


1. Press „ON/DIST“ to measure distance

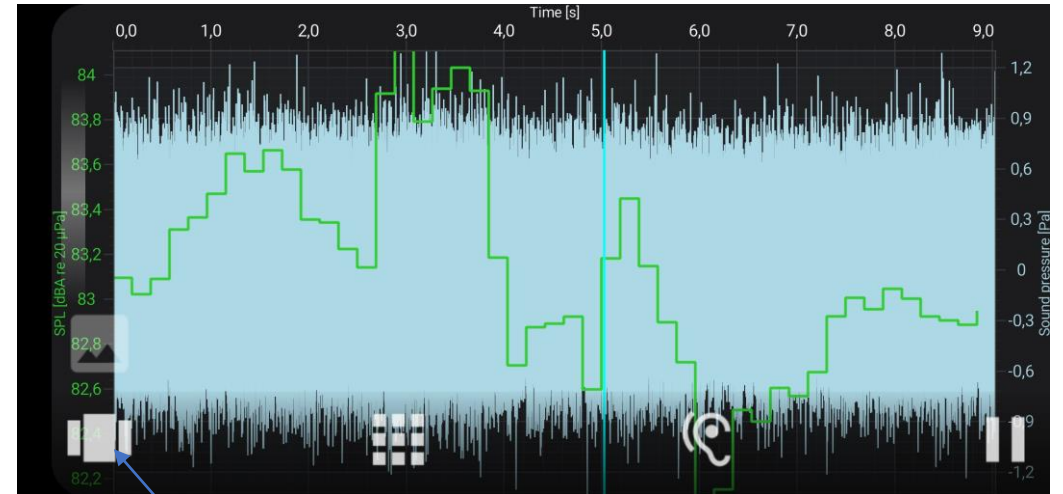
**BACK to „PICTURE Mode“**

**BACK to „VIDEO Mode“**

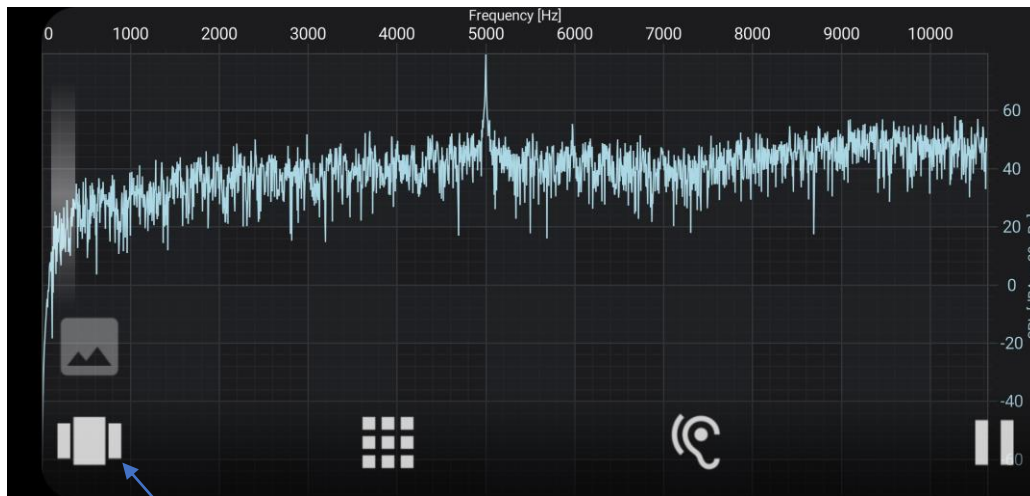
# How to use „Real-time-audio-menu“



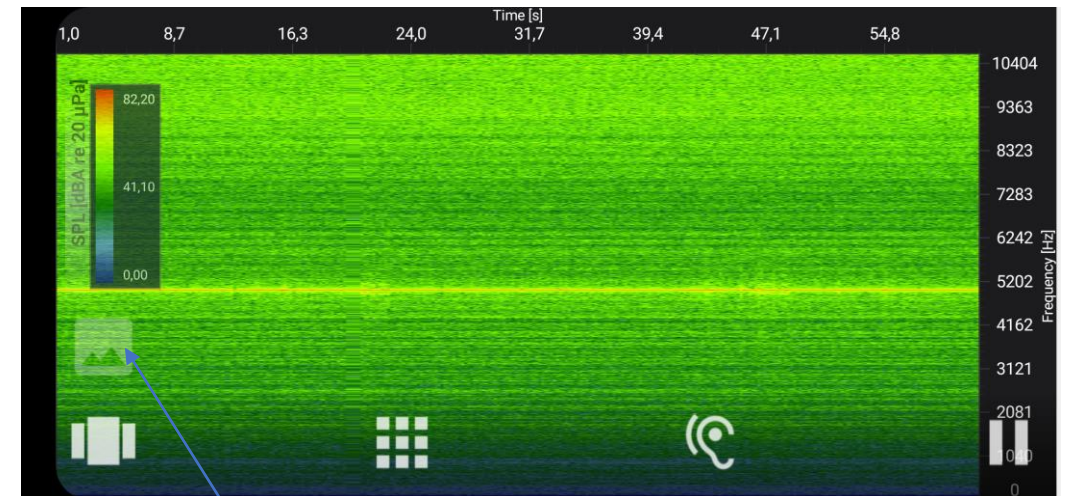
1. tap the symbol to get access to „real-time-menu“ / time-domain



2. tap the symbol to switch to frequency-domain



3. tap the symbol to switch to spectrogram-domain



4. back to image/standard measuring mode