

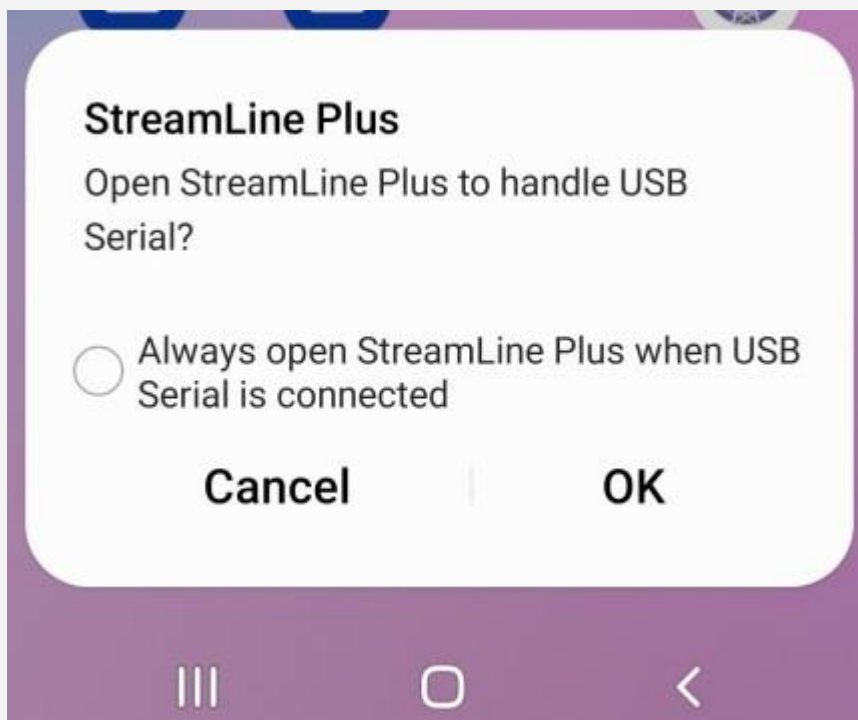
Welcome to StreamLine Plus

This app connects to the DE9180 series device via USB-OTG and receives DRM+ (Robustness Mode E) signals through USB-to-Serial communication for decoding.

Follow these steps to get the most out of our app.

Step 1: Hardware Connection Setup

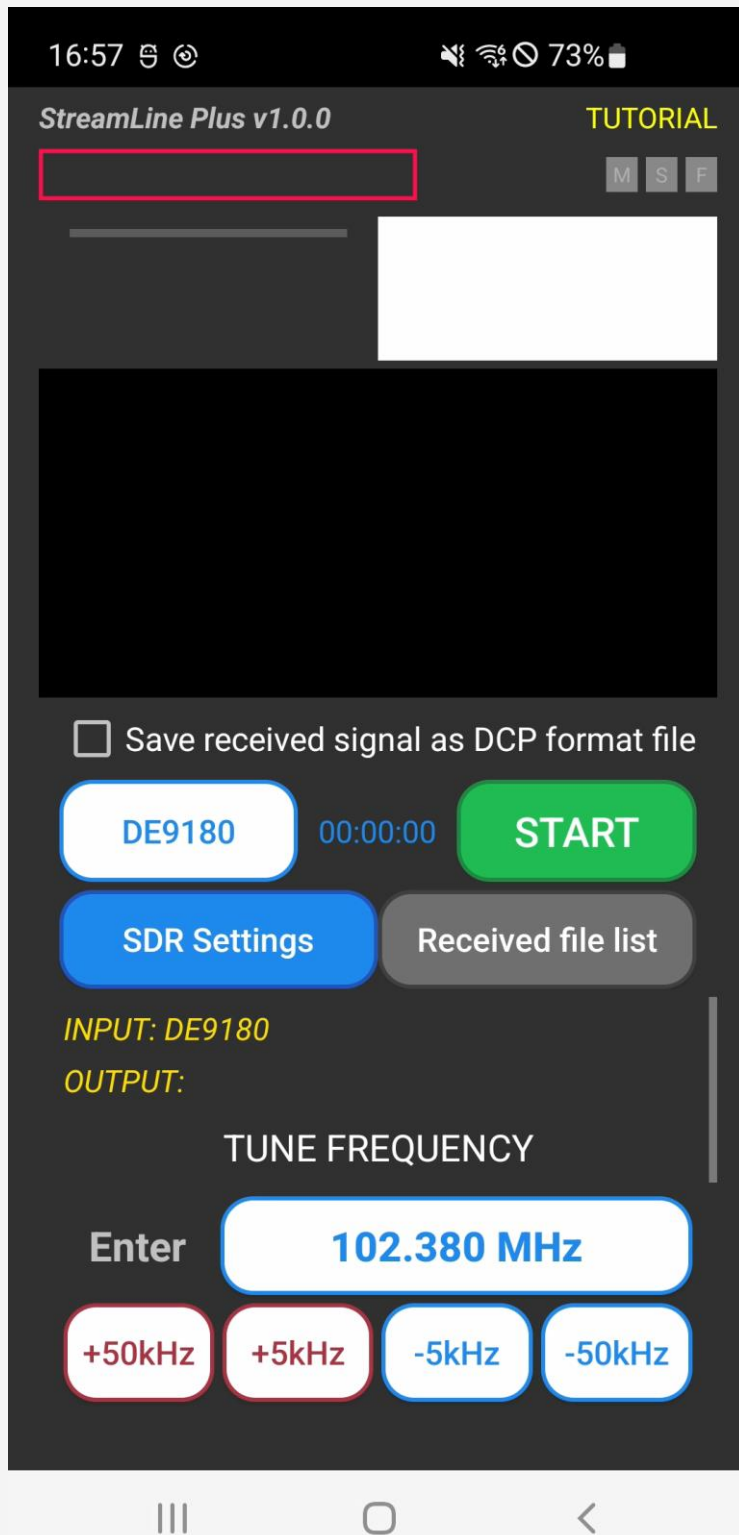
1. Before connecting your smartphone to the DE9180 series (referred to as the "device"), make sure to power on the device.
2. Once the device is powered on, connect it to your smartphone using a cable or USB OTG adapter.
3. If a popup like the one below appears, click "Cancel."



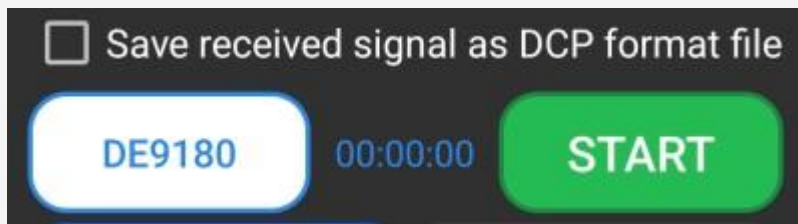
4. Once everything is ready, launch the app. (You can also connect the device after launching the app without any issues.)

Step 2: Explanation of the Main Screen UI

1. After launching the app, you will see the following UI:

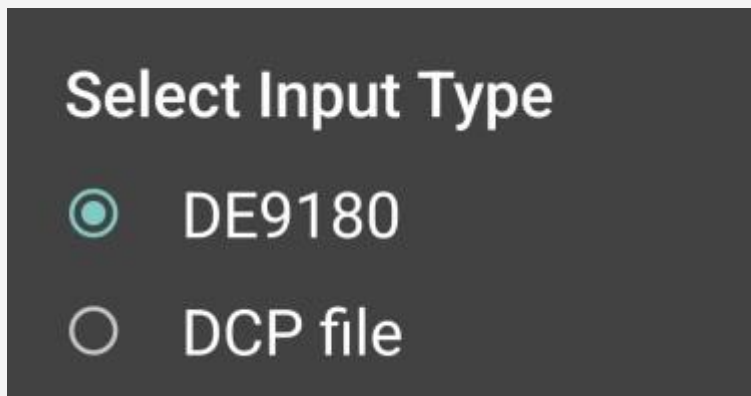


2. You can select the type of input signal by clicking the **DE9180** or **DCP file** button.



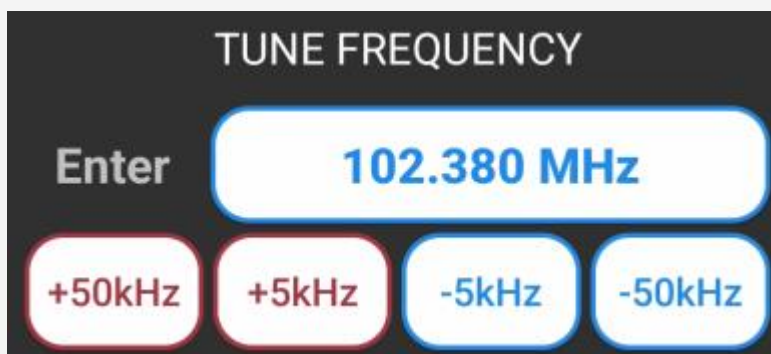
2-1. The **DE9180** option receives DRM signals from the DE9180 series.

2-2. The **DCP file** option uses a saved *.dcp file as input. You can select the file when you press the **START** button. (The file location is fixed to '/Android/media/com.algorkorea.app.streamlineplus')



3. Available features in the **DE9180** option

3-1. Before pressing **START**, you need to set the frequency on the device. (This is not applicable to **DCP file**). You can enter the frequency directly using the buttons on the next screen, or adjust it in 50kHz or 5kHz increments. Changing the frequency will also change the frequency on the device.

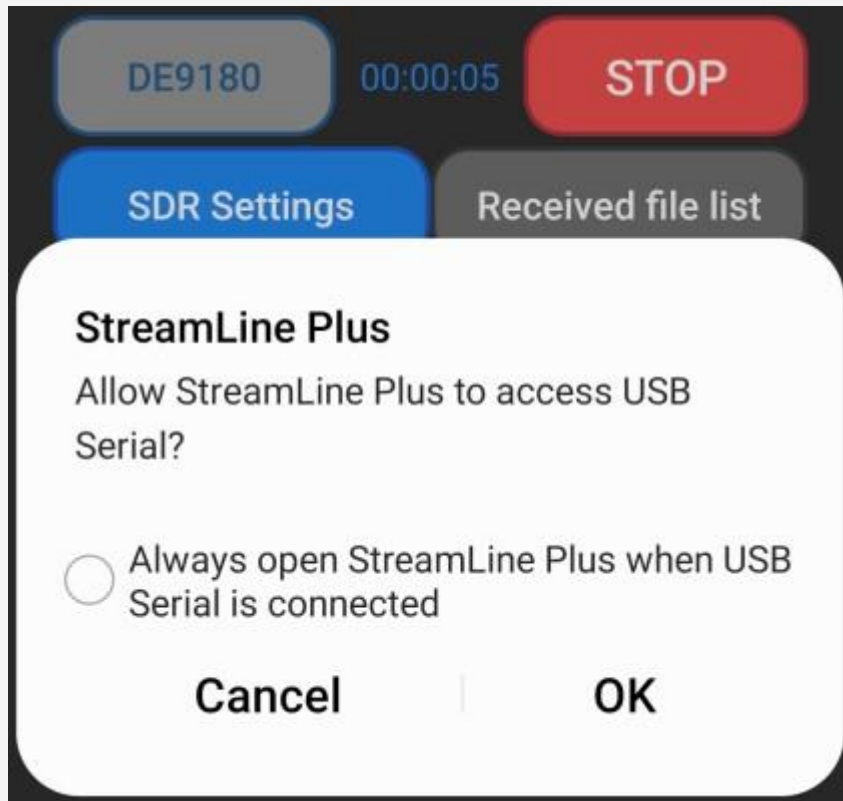


3-2. If you check the box for '**Save received signal as DCP format file**,' the received MDI data will be saved as a DCP file while decoding.

3-2. If you check the box for '**No device control when frequency changes**' at the bottom of the app, the device frequency will not be changed when you modify the tuning frequency. It will only be applied when you press **START**.

4. Once everything is set, press the **START** button to start decoding the DRM signal.

4-1. If it's your first time pressing the **START** button or changing the frequency after connecting the device, a popup similar to Step 1, item 3 will appear once. Be sure to press OK for the process to work correctly.



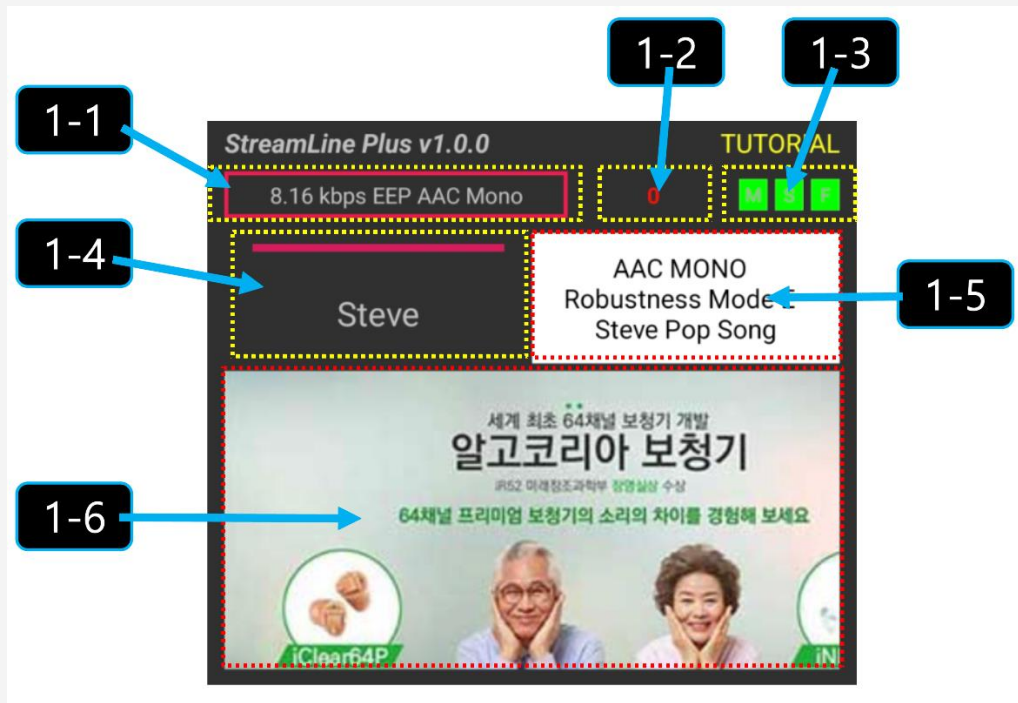
4-2. Once the process starts successfully, the green **START** button will change to a red **STOP** button.

4-3. To stop the decoding process, press the red 'STOP' button. It may take up to 5 seconds to safely end the decoding and disconnect from the device.

4-4. If the **DCP file** input is selected, the process will automatically end when the file is fully read.

Step 3: Explanation of Decoding Information

1. When the DRM+ signal is decoded correctly, the following information will be displayed:



1-1. Shows the transmission rate, codec information, and other details of the decoded DRM signal.

1-2. Displays the number of lost packets received from the device.

1-3. Displays the decoding status. The statuses of MSC, SDC, and FAC are shown from left to right. All green indicates successful decoding.

1-4. Shows the Title information of the DRM signal.

1-5. Shows the Text Message of the DRM signal.

1-6. Displays a web browser view showing received data (such as Slideshow, Broadcast Website, etc.).