Using Coach 7 on Chromebook: What You Need to Know

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To use Coach 7 on a Chromebook, you need the Coach 7 for Chromebooks app. This app can be installed and used on Chromebooks that support Android[1]. However, certain Chromebooks with specific processor types are not compatible. To verify if your Chromebook can run Coach 7, please refer to the steps outlined in the section 'How to check if Coach 7 can work on your Chromebook'.

This document provides an overview of the features and limitations of using the Coach 7 app on Chromebooks.

1. Coach 7 for Chromebook app

The Coach 7 for Chromebook app is available on the Google Play Store. You can find the link to the latest installation file on our website at https://cma-science.nl in the Downloads section. A BYOD license is required to activate the app.
Coach 7 for Chromebooks supports measurements with selected devices (see the section 'Measurement'), as well as data video, and modeling.

2. Coach 7 permissions

To ensure the Coach 7 App functions properly on Chromebook, you need to grant certain permissions in the Android system.

1. For using the Coach 7 App some permissions must be enabled in Android. For recent OS version these are 'Location' and 'Nearby devices'. For older OS versions these are 'Location' and 'Storage'
   - For recent OS versions:
     Go to Settings → Apps → Manage Google Play Preferences → Android Settings → Apps → All Apps. Select Coach 7 Chromebook.
   - For older OS versions:
     Go to Settings → Apps → Google Play Store → Manage Android preferences → Apps & notifications → App info. Select Coach 7 Chromebook.
2. For measurements with WiLab, both 'Bluetooth' and 'Location' must be enabled. On recent OS versions, the 'Nearby devices' permission must

[1] If your Chromebook does not support Android or does not have the ability to run Android-apps, Coach 7 can **NOT** be used on your Chromebook. Especially older Chromebooks (2014/2015) are not compatible with Android. Carefully check beforehand if your Chromebook supports Android before purchasing Coach 7. An extensive list of Chromebooks that (will) support Android is available at: https://www.chromium.org/chromium-os/chrome-os-systems-supporting-android-apps/.

also be granted to find Bluetooth devices.
To enable these settings on your device:

- For recent OS versions:
  Bluetooth: Go to Settings → Bluetooth and ensure Bluetooth is enabled.
  Location: Settings → Apps → Manage Google Play Preferences → Android Settings → Location. Enable Location and grant the app permission.
  Nearby devices: Follow the steps in point 1 to allow this permission.
- For older OS versions:
  Bluetooth: Go to Settings -> Bluetooth and ensure Bluetooth is enabled.
  Security & location: Go to Settings → Apps → Google Play Store → Manage Android preferences → Security & location. Enable Location and grant the app permission.

Note: If 'Location' was already enabled on the device, clicking **Yes** to allow the Bluetooth permission when prompted after the first Coach 7 app start (post-installation) will suffice.

3. Location of files for Coach 7

On Chromebooks with older OS versions, apps cannot access folders outside their own app folders unless given explicit permission. To ensure Coach 7 can access your files, follow these steps to place files in Coach 7's accessible documents folder:

1. Copy or Move the file to the app's documents folder, where Coach 7 can access it without needing extra permissions.
2. Use the Files app to navigate as follows: go to My Files → Play Files → Documents → Coach 7 and copy the file into this folder.
3. In Coach 7, this folder corresponds to the User folder.
4. To locate the file in Coach 7, go to the file dialog and click on the User tab - your file should appear there.

On Chromebooks with newer OS versions, opening 'Activity or Result' will invoke 'Open document' action, which opens the native File Browser (applicable to Android 11 or higher).

4. Video Capture

Since Google does not permit Android apps on Chromebook to access the camera and does not allow direct USB access, video capture within Coach is not possible.

5. Measurement

The Coach 7 app for Chromebooks supports measurements with wireless sensors and specific CMA interfaces. Refer to the additional information below for details on each measurement device.

Wireless sensors

The CMA Wireless Sensors can be used with Chromebooks that support Bluetooth Low Energy (BLE) 4.2 or higher. Unfortunately, they are not compatible with older Chromebooks equipped with Bluetooth 4.0 modules, as these do not meet the BLE 4.2 requirement for the sensors.

VinciLab and WiLab interfaces

The CMA interfaces, VinciLab and WiLab, can **only be used wirelessly** in Coach 7 on Chromebooks - VinciLab via Wi-Fi and WiLab via Bluetooth. For measurements with WiLab, both Bluetooth and Location must be enabled (see the 'Coach 7 Permissions' section).

Internal accelerometer

Most Chromebooks have an internal accelerometer. Keep in mind that it is often located in the screen rather than the keyboard. In that case, the screen should be laid flat for the correct orientation during measurements.

USB interfaces

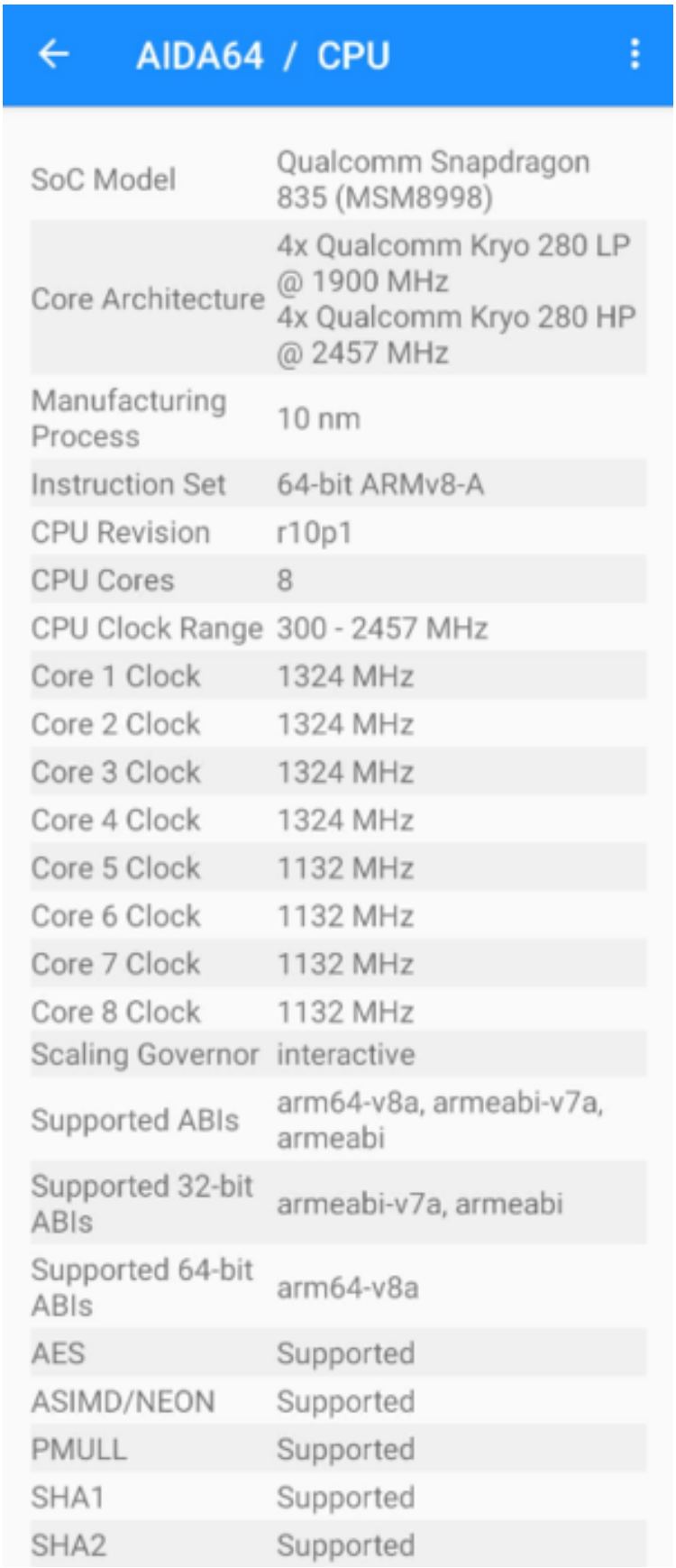
On Chrome OS, Google restricts USB access for Android applications, including those with USB or camera permissions. As a result, the Coach 7 app cannot directly access USB interfaces. Currently, this limitation means that measurements using CMA USB interfaces via USB are not supported.

6. How to check if Coach 7 can work on your Chromebook

To check if your Chromebook is compatible with Coach 7, you can use the AIDA64 app to quickly verify your device's specifications and ensure compatibility. The AIDA64 app is available for free (with ads) on the Google Play Store and does not require special permissions to run.
AIDA64 on Google Play:
https://play.google.com/store/apps/details?id=com.finalwire.aida64.

Simply download and run the app on your Chromebook to test your system.

On the CPU section, you should see a screen similar to the image below.



AIDA64 tells you exactly the CPU features that your device supports. Specifically, **AIDA64** lists all possible CPU features, provides feature definitions, and indicates whether your particular device supports each feature.

If you see:

- Supported ABIs showing ARMv7 or ARM64 AArch64
- OS Version of Android is 15, 14, 13, 12, 11, or 10
- NEON is listed as Supported.

Then the device should work.