

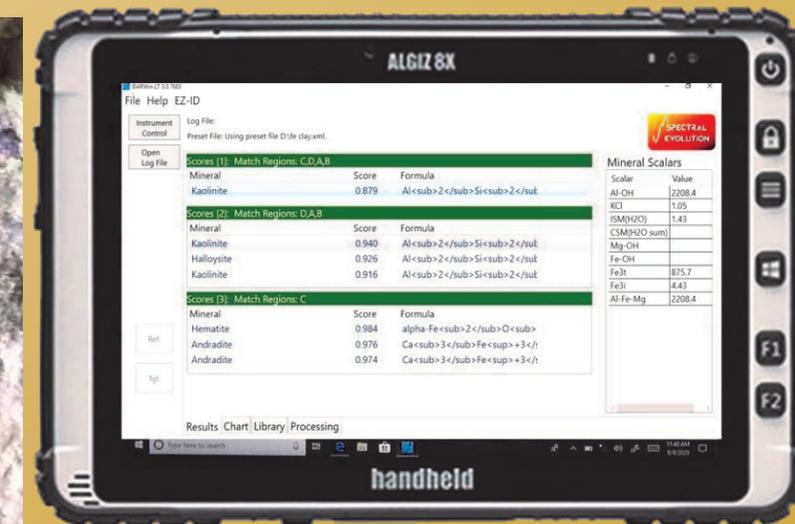
Now you can instantly identify minerals in the field with EZ-ID Mobile mineral identification software running on a rugged, handheld tablet

Tablet Features

- Rugged construction for field reliability
- Small size 225mm x 147mm x 24mm (8.8" x 5.7" x 0.9")
- 8" capacitive touchscreen – 1280x800 resolution – sun-light readable display
- GPS antenna
- Runs Windows 10
- Hot swappable lithium-ion battery pack
- 8 megapixel rear facing camera with autofocus and LED flash
- 2 megapixel front facing camera
- Voice notes
- IP65 rated
- Bluetooth connection to instrument, USB connection to PC
- Four sample pre-set match regions included with USGS library



Instant Mineral Identification with EZ-ID Mobile Software Running on a Rugged Tablet



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EZ-ID Mobile Mineral Identification Software Runs on a Rugged Handheld Tablet for Instant Identification of Minerals in the Field or the Core Shack

Running on the rugged tablet under DARWin LT Data Acquisition software, EZ-ID Mobile gives you instant identification results of the primary minerals in your sample. EZ-ID Mobile matches your field samples against up to three libraries of more than 1100 minerals to identify the top minerals in your sample. The results are displayed instantly. You can access the target scan and information from the library that your target was matched to.

The EZ-ID Mobile results screen presents the following information on the minerals in your sample: up to five Score Tables and Scalars. There are also Tabs to display your sample spectra and library match, library information, and a processing tab where you can set your own match regions and select the correlation score limits.

Score Tables include:

- ◆ Up to five Score Tables made up of match regions selected to focus on key absorption features for different mineral groups. Score Tables include pre-set match regions.
- ◆ Up to three mineral matches per Score Table
- ◆ Correlation score – degree of accuracy of the match for each mineral
- ◆ Chemical formula for each mineral

Scalars include:

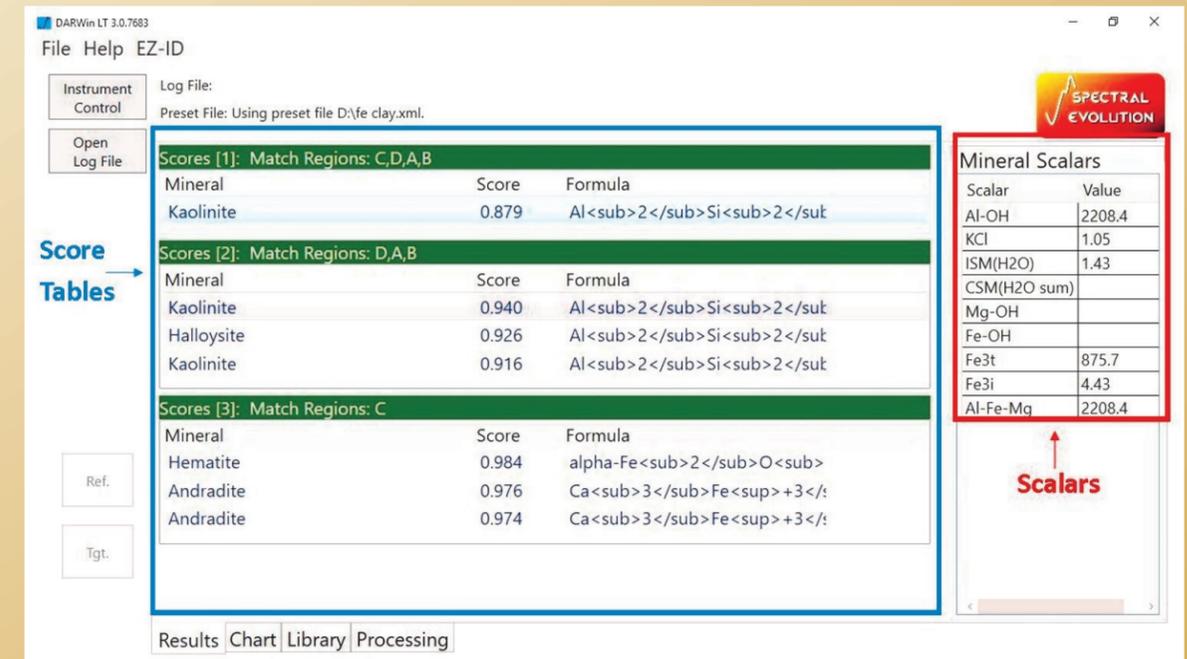
- ◆ Al-OH absorption feature at a wavelength around 2200nm
- ◆ Kaolinite crystallinity index
- ◆ Illite formation temperature index
- ◆ Chlorite formation temperature index
- ◆ Mg-OH absorption feature wavelength around 2350nm
- ◆ Fe-OH absorption feature wavelength around 2260nm
- ◆ Fe+3 mineral feature position to distinguish between oxide and hydroxide Fe+3 minerals
- ◆ Intensity of the FE+3 absorption
- ◆ Al-Fe-Mg feature that reports the wavelength of the deepest absorption feature of the Al-OH, Fe-OH and Mg-OH hydroxides

EZ-ID Mobile on the tablet is shipped with a file with four standard pre-sets for:

- ◆ Iron
- ◆ Clays
- ◆ Sulfates
- ◆ Carbonates

EZ-ID Mobile can match your samples against three libraries for instant mineral identification. The USGS library is built into EZ-ID Mobile for the tablet and the SpecMIN and GeoSPEC libraries are optional. The GeoSPEC library is composed of high resolution spectra from the Colorado School of Mines collection measured with a high resolution oreXpert. The oreXpert has the highest resolution available in a field portable spectrometer. EZ-ID includes a Custom Library Builder module so you can create your own library.

In addition to running DARWin LT and EZ-ID Mobile, the tablet also includes a digital camera to take photos of samples, voice recording for notes and GPS location information which is saved with your scans. All spectra are saved as ASCII files that are compatible with third party software such as GRAMS, TSG and chemometrics software such as the Unscrambler® from Camo Analytics.



In this sample EZ-ID Mobile identified predominantly kaolinite. Some halloysite, hematite and andradite were also found in the sample. Different results were found for each score table based on the match regions selected. In the spectra the match regions are signified by green shaded areas. Match regions can be from the included standard pre-set file or can be selected and saved along with Score Table thresholds under the Processing tab.