

## The art of gold panning

Placers arise at the inner side of river curves where the flow of water reduces, gold minerals deposit and silt up together with rocks and other minerals due to their higher weight. The idea of panning is to separate the lighter sand and gravel mixture from the gold contents so that only gold minerals remain on the ground of the gold pan. Therefore, please proceed as follows:

- Look for a comfortable place on a river.
- Take your gold pan and fill it with the gold and sand mixture. Shake the filled pan under water several times vigorously, so that the heavy gold grains sink to the bottom of the pan. Concurrently dusty parts detach from the sand.
- Continue moving the gold pan slightly inclined forwards side to side underwater, so that the upper sandy area can drain off. Repeat this step until a handful material remains in the pan.
- Now lift the pan with the remaining concentrate and about 500 ml of water and move the pan over water in circular movements to carefully wash the sand content over the edge of the pan until the first gold grains become visible. Repeat this process and gradually pick up the available gold from the washing pan. Use a tweezer or dry fingers and place the gold in a water-filled tube.



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## Technical specification

The following technical indications are medial values. During operation small variations are quite possible.

Operating temperature: +5 °C – +40 °C  
 Storage temperature: -20 °C – +60 °C  
 Air humidity: 5 % - 95 %  
 Waterproof (Main unit / Measuring cup): No / Yes  
 Dimensions (Main unit / Measuring cup): 135 x 120 x 55 mm / Ø 65 x 90 mm  
 Weight (Main unit / Measuring cup): 660 g / 230 g  
 Voltage (internal battery): 7.2 V DC  
 Operating time: approx. 5 hours (corresponds to approx. 600 measurements)  
 Charging time: approx. 3 hours  
 Display: 2.8" TFT, Touchscreen, Colour  
 Processor: Atmega2560, 8-bit, 16 MHz  
 Measuring unit: Electrolysis-free segmented two-core spiral-coil

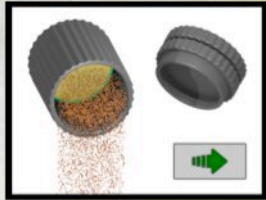
The Gold Labor Au 79 is used for quick determination of the gold content in 3 simple steps:

- Fill in soil sample
- Start measurement
- Read the result

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# Measuring with Gold Labor Au 79

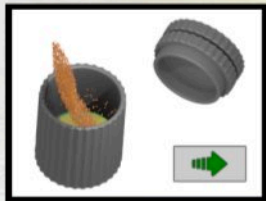
Look for an appropriate place on the river bank, where you want to perform your gold panning.



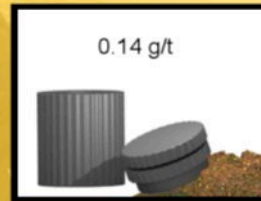
If this message appears after turning on the Gold Labor Au 79, it's an indication that there is still material in the cup. Clean the cup and press the green arrow.



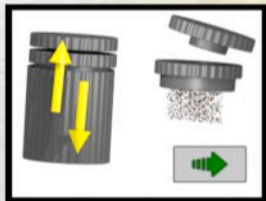
Shake the cup as displayed so that the gold components sink down and can be measured by the coil.



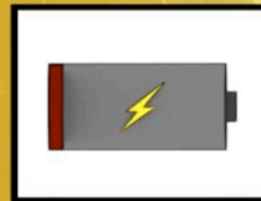
Take some sand-gravel mixture with a suitable shovel or a soil sampling tool and put it in the measuring cup. The bottom should be just covered. Close the measuring cup and press the green arrow.



Once the measurement is finished the result is displayed and the measuring cup can be emptied. The result is displayed in grams per tonne (g/t).



To avoid measuring errors it is recommended to remove ferromagnetic minerals from the measuring cup. Therefore, shake the cup vigorously for some seconds. Remove the cover completely and take off the upper part with the magnet. Thus ferromagnetic components which stuck on the cover will come off. Close the measuring cup again and press the green arrow.



If this message appears, the battery is low.

Connect the supplied charger to the charging socket of Gold Labor Au 79. During the charging process the orange charging-LED lights up. Once the device is fully charged the charging-LED goes off and you can start new measurements.

## SHOP DETECTORS

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Connector for measuring cup



On / Off

Charging socket

Charging-LED

Cover with magnet

Cover

Measuring cup

Gold Labor  
Au 79

