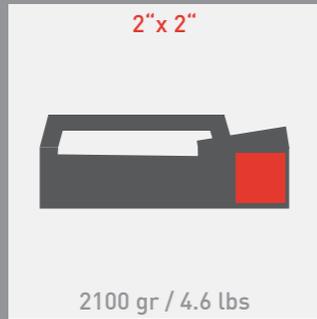
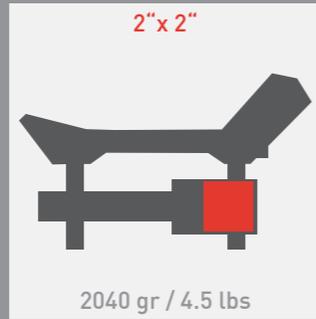
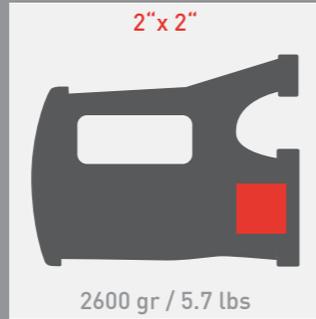
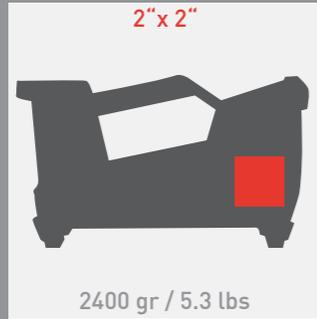
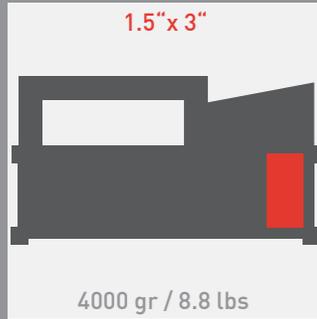


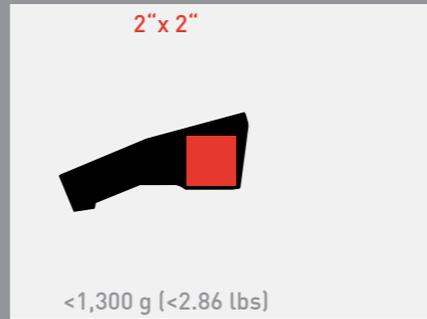


## Target F500

The world's smallest Radionuclide Identifying Device (RID) with a 2" x 2" detector



Target F500



An overview of enclosure size, detector size and weight of comparable Radionuclide-Identifying Devices (RIDs) on the market.

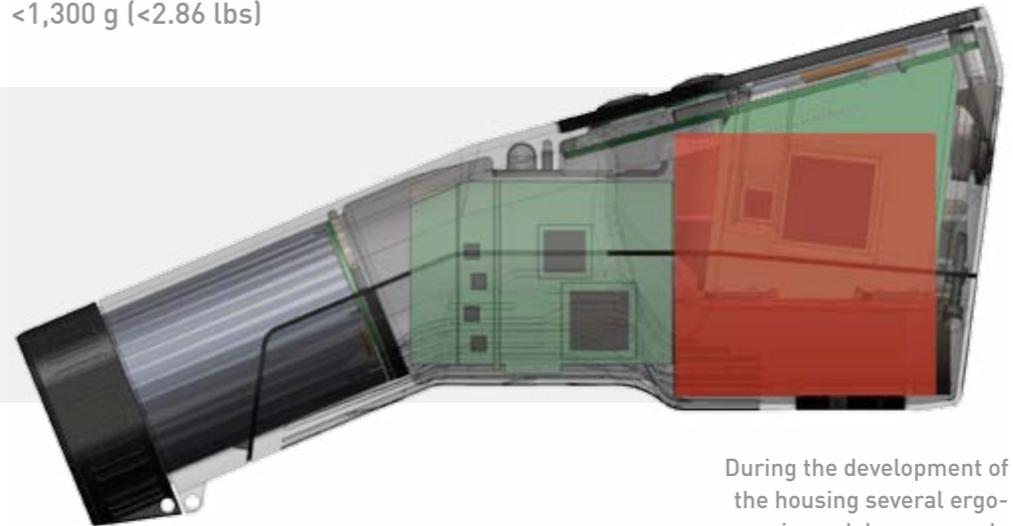
## It's bigger on the inside

The Target F500 is an ultra-compact rugged sensitive Radionuclide Identifying Device (RID). It provides superior usability by offering a wider energy range, higher throughput, and better stability in a wearable handheld.

For the first time, a 2" x 2" size detector is combined with high precision, high-speed digital electronics in an ergonomic lightweight enclosure. The novel design features a water-tight aluminum housing and is small enough to be worn on a belt.

**Dimensions:**  
92 mm x 232 mm x 88 mm (3.62" x 9.13" x 3.46")

**Weight:**  
<1,300 g (<2.86 lbs)



During the development of the housing several ergonomic models were made to study size, weight and usability. The result is a housing shape and a weight that makes this 2" by 2" detector size RID really wearable.





## Made for the mission

The wide energy range from 10 keV to 10 MeV and a dose rate capability of 100 mSv/h is indispensable when it comes to field operations dealing with unknown threats.

Minute radiation levels can be detected earlier, quicker and with higher accuracy than with other comparable handhelds. Strong radiation sources are measured and identified even at mega-count per second input rates.

A crisp trans-flective high resolution display supports operation in bright sunlight as well as in the dark. The F500 comes with the novel patented stabilization based on the measurement of the photon noise charge. Thereby gain shifts and temperature effects are completely compensated. The hermetically sealed waterproof device is well suited for its mission on land, on water, and even underwater to 10 meters diving depth.

A well-proven concept of operation and a user interface that concentrates on providing the essential information makes the F500 intuitive and easy to use. Even in upside down position the Target F500 is still easy to operate, as the user interface automatically rotates its different elements accordingly.



Dose rate mode



Calculating the fine gain



Identification mode



Identification results

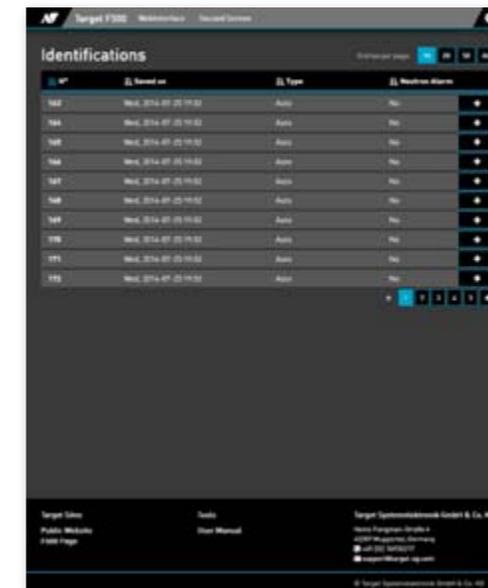




## It's not over, when you are back.

All measurements are saved on the instrument (32 GB storage capacity), and can easily be transferred without special software.

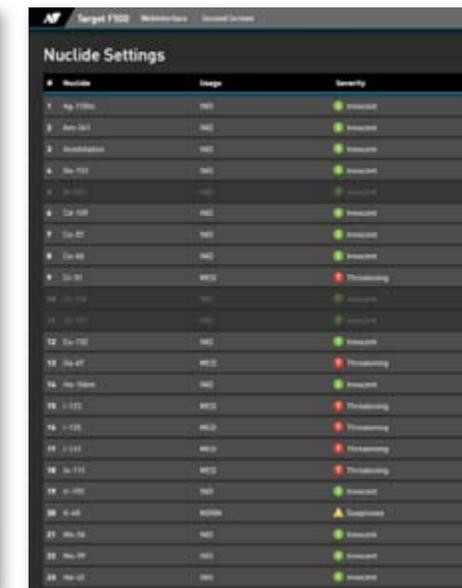
Its multiple interfaces and the built-in web interface allow easy and flexible reach-back operation. The interface also provides for secure remote maintenance and remote operation of the instrument.



Identification list in the web interface



Web interface with details of an identification



Nuclide list editor of the web-interface. No extra software is needed to connect your computer to the F500. With any modern web browser you can download and organize measurement results, set up the instrument or remotely operate the F500.

### Summary

- Smallest instrument with a 2" x 2" detector
- Novel sourceless gain stabilization (patents pending)
- High dose rate capability with a single detector
- Spectrometry at 1 million cps and higher
- Directional radiation detection
- Water tight up to 10 meters (33 feet) - IP68 rated
- Easy system integration by HTTP REST interface
- Remote operation and configuration with standard web-browser



# Target Systemelektronik

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