

## F75 Specifications

- **Mechanical:** S-rod with electronics housing mounted on handgrip, 3-piece breakdown, batteries under elbow, 2-way armrest adjustment — forward/backward & around forearm.
- **Searchcoil:** 11" (28 cm) open-frame elliptical double-D, waterproof.
- **Batteries:** 4 AA, alkaline (not included).
- **Weight:** 3.5 pounds (1.6 kg) with alkaline batteries installed.
- **Static Balance:** force in vertical plane normal to elbow 0.47 pounds (0.22 kg). Varies with adjustment and user's stance and arm/hand physiology.
- **Dynamic Balance:** axial moment, 0.29 foot-pounds (0.39 newton-meters). Varies with adjustment and user's stance and arm/hand physiology.
- **Sweep Effort:** lateral moment 5.2 foot-pounds (7.1 newton-meters).
- **Operating Principle:** VLF induction balance
- **Operating Frequency:** nominal 13 kHz, quartz crystal timing reference
- **Basic Sensitivity:**  $6 \times 10^9$  root Hertz (detectivity)
- **Lag Coefficient:** 78 milliseconds
- **Reactive Overload:** approximately 10,000 micro-cgs units (volume susceptibility)  
40,000 micro-cgs units with sensitivity < 30.
- **Resistive Overload:** approximately 1,200 micro-cgs units (volume susceptibility)  
4,800 micro-cgs units with sensitivity < 30.
- **Ground Balancing Range:** From ferrite to salt, inclusive
- **Discrimination Ground Suppression:** combination of second and third order methods
- **ID Ground Suppression:** third order
- **Battery Life:** Typically 40 hours with high quality alkaline batteries  
Estimated 80 hours with nickel oxyhydroxide batteries  
Estimated 65 hours with lithium iron disulfide batteries
- **Operating Temp Range:** 4 to +122 degrees F (-20 to +50 degrees C)
- **Operating Humidity Range:** 0-90% non-condensing