

# **Radiation Force Balance (RFB-2000)**

Designed specifically for easy Ultrasound Power measurements on medical devices, the RFB-2000 requires little maintenance and no complex correction factors, and is compliant with regulatory requirements including AIUM-NEMA UD-2, UD-3, IEC 61161, and with associated IEC standards. Automation assures reliable means to validate Acoustic Output measurements as recommended by AIUM-NEMA document UD-2.

### **Features**

- Transparent, top-loading configuration
- No membrane or coupling gel required
- Unaffected by water evaporation
- Can be user-calibrated to standard masses
- Automatic temperature correction
- Accommodates variety of targets
- Short tank configuration to accommodate large transducers
- Selectable averaging to optimize measurement time and precision
- Automatic and manual measurement modes
- Automated logging of configuration, cal and measurement data
- Three means for automatic control of user equipment
- Includes calibration certificate based on acoustic power
- USB interface, optically isolated, Win 7 compatible



RFB-2000
Optional Kits:



Cone target kit for Physiotherapy Up to 20W (RFB-CTK)



Brush target for HIFU measurements
Up to 100W (RFB-BTK)



Short Tank Configuration (left) to accommodate large transducers



Thermal Index Mask Kit (RFB-MSK1x1)

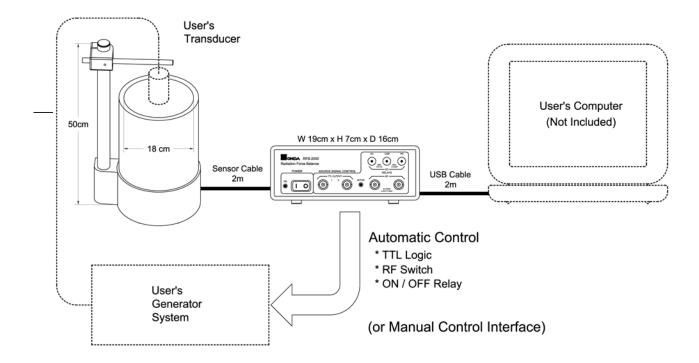
## **Technical Specifications**

- Power ranges: 1 mW\* to 2W with standard absorbing target
   Up to 20W with cone target kit (RFB-CTK) and up to 100W<sup>+</sup> with brush target (RFB-BTK)
- Display Resolution: > 4 digits
- Typical measurement uncertainty\*: < ± 5% at 95% confidence level</li>
- Measurement cycle time: adjustable from 4s (default) to 120 s
- Maximum beam diameter: 5 cm
- Low Frequency Limit: 1MHz (usable at lower frequency with decreased accuracy)
- \* Extended averaging may be required, depending on local vibration and power level

#### **Optional Accessories:**

- RFB-CTK cone target kit. Includes cone target and absorbing tank liner.
- RFB-BTK brush target
- RFB-PMP water-compatible vacuum pump (specify voltage)
- RFB-MSK1X1 Mask Kit for Thermal Index (1cm x 1cm window)

### Simple operation for Diagnostic, Physiotherapy or HIFU devices





<sup>&</sup>lt;sup>†</sup> Depending on beam parameters