

**METER ULTRASOUND POWER W CASE PORTABLE**

**DISTRIBUTOR: BC GROUP INTERNATIONAL, INC.**

**MANUFACTURER: OHMIC INSTRUMENTS**

**Distributor Model# USP-50**

**Manufacturer Model# UPM-DT-50SP**

**Distributor's PHONE: (314) 638-3800 FAX: (314) 638-3200**

**Manufacturer's PHONE: (410) 820-5111 FAX: (410) 822-9633**

**Distributor's Website: <<http://www.bcgrouintl.com/>>**

**Manufacturer's Website: <[www.ohmicinstruments.com](http://www.ohmicinstruments.com)>**

**Item Web Link:**

**<[http://testequipmentandtools.com/acatalog/USP\\_50SP\\_Digital\\_Ultrasound\\_Power\\_Meter.html](http://testequipmentandtools.com/acatalog/USP_50SP_Digital_Ultrasound_Power_Meter.html)>**

**AAC 'L' ITEM NSN 6695-01-593-8218**

**UAs: T500, T503**

**USAMMA POC: Customer Relationship Management 301-619-1288/4301 - DSN 343-1288/4301**

**UNIT PRICE: \$2,495.00**

**System Description:** The most reliable and repeatable means of measuring ultrasound power is by the radiation force method. The transducer to be tested is centered above a 45° air-backed cone target in de-gassed water. The coupling is made to a precision balance capable of resolving  $\pm 0.15$  watts. When acoustic energy is applied to the cone, the resultant force is directly proportional to the total radiated power. The test tank is lined with sonic absorbent rubber to prevent acoustic reflection. The balance is programmed to convert milligram magnitude forces direct to a readout in watts with good resolution. Measurement accuracy of the power meter can be verified by placing a calibrated weight on the cone's support arm.

- Features:**
- Frequency range: 0.5 to 10 MHz
  - Measures pulsed or continuous power
  - Selectable readout in watts or grams
  - Battery or line-powered
  - Provides over 40 hours of operation on battery power
  - Battery level indicator
  - Automatic zeroing & stabilization
  - Five-point certification (NIST traceable)

**NOTE: LIN R95994**



**METER ULTRASOUND POWER  
PART # USP-50  
NSN 6695015938218**



**METER ULTRASOUND POWER WITH CASE PORTABLE  
PART # USP-50  
NSN 6695015938218**

**METER ULTRASOUND POWER W CASE PORTABLE  
PHYSICAL & ENVIRONMENTAL SPECIFICATIONS**

<b>Item Dimensions</b>	<b>Height (Inches)</b>	<b>6</b>
	<b>Width (Inches)</b>	<b>12</b>
	<b>Length (Inches)</b>	<b>16.75</b>
	<b>Cube (Cubic Feet)</b>	<b>0.6979</b>
	<b>Weight</b>	<b>9.75 lbs</b>
<b>Ship Dimensions</b>	<b>Height (Inches)</b>	<b>0</b>
	<b>Width (Inches)</b>	<b>0</b>
	<b>Length (Inches)</b>	<b>0</b>
	<b>Cube (Cubic Feet)</b>	<b>0</b>
	<b>Weight</b>	
<b>Storage Temp</b>		
<b>Operating Temp</b>		
<b>Storage Humidity</b>		
<b>Operating Humidity</b>		
<b>Amps</b>		
<b>Watts</b>		
<b>Power Requirements</b>	<b>120 VAC to 12 VAC 500 mA adapter with 6 ft cord; Battery operation: 4 AA batteries</b>	
<b>Notes</b>	<b>Measurement Range: 0 to 30 watts, 0.05 watts minimum detectable power</b> <b>Resolution: ± 50 mW, ± 0.01 gram (150 mW)</b> <b>Accuracy: ± 3% @10 watts at 77 °F (25 °C)</b> <b>Transducer Frequency: 0.5 to 10 MHz</b> <b>Maximum Transducer Diameter: 4.5 inches</b> <b>Ultrasound Test Media: Degassed Water</b> <b>Integration Time: 2.5 seconds</b> <b>Display: 7-segment, 6 Digit 0.6" (15 mm) high LCD</b> <b>Data Output: "OPTIONAL" Bi-Directional RS-232 or USB interface</b>	

**METER ULTRASOUND POWER W CASE PORTABLE  
ACCESSORIES & CONSUMABLES - STARTUP**

NSN	Notes	Nomenclature	MFR PN OHMIC Instrument s	DIST PN BC Group Internation al, Inc.	QTY	UI	Unit Price	Total Price	Shelf Life Mon.
6695015938218		Meter Ultrasound Power w Case Portable	USP-50		1	EA	\$2,495.00	\$2,495.00	N/A

**METER ULTRASOUND POWER W CASE PORTABLE  
WEB LINKS**

**[Click Below for Data Sheet](#)**

**<http://www.ohmicinstruments.com/pdf/UPM-DT50SP.pdf>**

**[Click Below for Operator's Manual](#)**

**<http://www.ohmicinstruments.com/pdf/Manuals/UPM-DT50SPman.pdf>**