Ultrasonic Cleaners
For intensive cleaning, degassing emulsifying, homogenization, & the acceleration of chemical processes in the research, production, and maintenance sectors.

Features:
- Useful for Cleaning and Removing Dirt, Grease, Waxes and Oil from all Lab Instruments by Ultrasonic Frequency
- Made of Stainless Steel, Finished Surface
- Convenient Preset Function: Heating and Timer
- Bottom-Mounted Drain (except AC-120H)
- Include basket & lid.

### Laboratories
- Cleaning, degassing, homogenizing, emulsifying.

### Hospital, Clinics
- Cleaning surgical instrument, manufacture of implants and stents
- Cleaning instruments for dental treatment, cleaning dental prostheses

### Dental, Tatoo
- Cleaning spectacles, optical lenses before coating etc.

### Jewelry & watches
- Cleaning chains, rings, straps, watches parts etc.

### Chemical sector
- Cleaning reactors, acceleration of chemical reactions etc.

### Plastics industry
- Cleaning injection moulds etc.

### Car & Aircraft Industry
- Cleaning engine parts carburetors etc.

### Mobile phones & Electronics
- Cleaning PCB boards

### Printing shops
- Cleaning ink cassettes

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**Ultrasonic cleaner-set with analog timer & temperature controller**

- Made of stainless steel, up to 80°C, 0~20min, 40kHz frequency
- Convenient Preset Function: Heating and Timer
- Memory function
- Bottom-Mounted Drain
- Include basket & lid.

### AC-Analog Series

**AC-120H**
- Ultrasound power (AC Series): 100W
- Power adjustable (ACP Series): 30 – 100W
- Heating Power: 100W
- Net Weight: 3.2Kg
- Drainage: None
- Power source: AC100~120V/AC220~230V 50/60Hz

**AC-150H**
- Ultrasound power (AC Series): 150W
- Power adjustable (ACP Series): 45 – 150W
- Heating Power: 300W
- Net Weight: 6.2Kg
- Drainage: None
- Power source: AC100~120V/AC220~230V 50/60Hz

**AC-200H**
- Ultrasound power (AC Series): 200W
- Power adjustable (ACP Series): 60 – 200W
- Heating Power: 300W
- Net Weight: 8.2Kg
- Drainage: Have
- Power source: AC100~120V/AC220~230V 50/60Hz

**AC-250H**
- Ultrasound power (AC Series): 250W
- Power adjustable (ACP Series): 90 – 300W
- Heating Power: 400W
- Net Weight: 10.2Kg
- Drainage: Have
- Power source: AC100~120V/AC220~230V 50/60Hz

**AC-300H**
- Ultrasound power (AC Series): 300W
- Power adjustable (ACP Series): 120 – 400W
- Heating Power: 500W
- Net Weight: 13.2Kg
- Drainage: Have
- Power source: AC100~120V/AC220~230V 50/60Hz

**AC-400H**
- Ultrasound power (AC Series): 400W
- Power adjustable (ACP Series): 150 – 500W
- Heating Power: 500W
- Net Weight: 14.9Kg
- Drainage: Have
- Power source: AC100~120V/AC220~230V 50/60Hz

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**ACP-Serie**, Power adjustable ultrasonic cleaner
- Power adjustable from 30% to 100% -suitable for different cleaning (from 3L and above)
- With mechanical control timer & heater
- Memory function
- Stamping tank without welding gap for better waterproof
- Timer: 0~30 minutes
- Ceramic heaters for better heating effect.

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### Laboratories
- Cleaning, degassing, homogenizing, emulsifying.

### Hospital, Clinics
- Cleaning surgical instrument, manufacture of implants and stents
- Cleaning instruments for dental treatment, cleaning dental prostheses

### Dental, Tatoo
- Cleaning spectacles, optical lenses before coating etc.

### Jewelry & watches
- Cleaning chains, rings, straps, watches parts etc.

### Chemical sector
- Cleaning reactors, acceleration of chemical reactions etc.

### Plastics industry
- Cleaning injection moulds etc.

### Car & Aircraft Industry
- Cleaning engine parts carburetors etc.

### Mobile phones & Electronics
- Cleaning PCB boards

### Printing shops
- Cleaning ink cassettes

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**Laboratories**

<table>
<thead>
<tr>
<th>Analog</th>
<th>AC-120H</th>
<th>AC-150H</th>
<th>AC-200H</th>
<th>AC-250H</th>
<th>AC-300H</th>
<th>AC-400H</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hospital, Clinics</td>
<td>Cleaning surgical instrument, manufacture of implants and stents</td>
<td>Cleaning instruments for dental treatment, cleaning dental prostheses</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dental, Tatoo</td>
<td></td>
<td></td>
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<tr>
<td>Optics</td>
<td>Cleaning spectacles, optical lenses before coating etc.</td>
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</tr>
<tr>
<td>Jewelry &amp; watches</td>
<td>Cleaning chains, rings, straps, watches parts etc.</td>
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</tr>
<tr>
<td>Chemical sector</td>
<td>Cleaning reactors, acceleration of chemical reactions etc.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plastics industry</td>
<td>Cleaning injection moulds etc.</td>
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<td></td>
<td></td>
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<tr>
<td>Car &amp; Aircraft Industry</td>
<td>Cleaning engine parts carburetors etc.</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mobile phones &amp; Electronics</td>
<td>Cleaning PCB boards</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Printing shops</td>
<td>Cleaning ink cassettes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Digital Ultrasonic-Cleaners

DC-Power Full Series
Digital Ultrasonic Cleaner-set, with Wire Basket & Lid, Highly Effective & Efficient Cleaning, Stainless Steel, up to 70°C, 0-99min., Frequency 40KHz

- Useful for Cleaning to Remove Dirt, Grease, Waxes and Oil from all Lab instruments by Ultrasonic Frequency.
- Microprocessor Control: Timer, Temperature and Output Control.
- Frequency: up to 40kHz.
- Temperature Range from Ambient to 70°C.
- Convenient Pre-set Function: Heating and Timer.
- Bottom - Mounted Drain (Except DC-80H & DC-120H).
- Maximum 99 minutes Set Cleaning Time.
- Include Basket & Lid.

DCG-H Series, Digital Ultrasonic Cleaners with Degas Function

Features:
- Turbo power: Normal and soft function to resolve the cleaning blind spot
- Auto-degas function for laboratory purposes
- Memory function
- Automatically ultrasonic frequency tracking
- LED display for temperature and timer
- Timer: 1-99 minutes
- Temperature: 0-80°C
- SUS304 tank. Stamping tank without welding gap for better waterproof
- User-friendly and clear panel.
- High-performance transducer systems
- Drainage and cool fan are available for 6L and above volume models, convenient to use.
- Ultrasonic Frequency: 40KHz.

Applications:
- Hospital and Dental Clinics
- Optical Stores and Makers
- Biology and Chemical Labs
- Jewelry Store & Maker
- Watch Service Shops
- Mobilephone and Electronics Service Shops
- Shooting Clubs
- Printing Shops
- Automotive shop
- Hardware
- Tatoo
- Aerospace & marine parts.

<table>
<thead>
<tr>
<th>Model - Digital</th>
<th>DC-80H</th>
<th>DC-120H</th>
<th>DC-150H</th>
<th>DC-200H</th>
<th>DC-250H</th>
<th>DC-300H</th>
<th>DC-400H</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCG-H</td>
<td>DCG-80H</td>
<td>DCG-120H</td>
<td>DCG-150H</td>
<td>DCG-200H</td>
<td>DCG-250H</td>
<td>DCG-300H</td>
<td>DCG-400H</td>
</tr>
<tr>
<td>Operating frequency</td>
<td>40 KHz</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tank Capacity (Liters)</td>
<td>2</td>
<td>3</td>
<td>6</td>
<td>9</td>
<td>13</td>
<td>20</td>
<td>27</td>
</tr>
<tr>
<td>Internal tank size (LxWxH) (mm)</td>
<td>150x140x100</td>
<td>240x140x100</td>
<td>300x155x150</td>
<td>300x240x150</td>
<td>330x300x150</td>
<td>500x300x150</td>
<td>500x300x200</td>
</tr>
<tr>
<td>External dimension (LxWxH) (mm)</td>
<td>190x170x220</td>
<td>270x170x240</td>
<td>330x180x310</td>
<td>330x270x310</td>
<td>360x330x310</td>
<td>550x330x310</td>
<td>550x330x360</td>
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<tr>
<td>Internal tank stuff</td>
<td>SUS 304 #1.0l</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>External stuff</td>
<td>Steel plate toast paint</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LID cover stuff</td>
<td>Stainless steel SUS 304</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Timer</td>
<td>1-99min</td>
<td></td>
<td></td>
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<tr>
<td>Ultrasonic power</td>
<td>50W</td>
<td>100W</td>
<td>150W</td>
<td>200W</td>
<td>300W</td>
<td>400W</td>
<td>500W</td>
</tr>
<tr>
<td>Heating Power</td>
<td>100W</td>
<td>100W</td>
<td>300W</td>
<td>300W</td>
<td>400W</td>
<td>500W</td>
<td>500W</td>
</tr>
<tr>
<td>Net weight</td>
<td>1.9kg</td>
<td>2.9kg</td>
<td>5.8kg</td>
<td>8.8kg</td>
<td>10.2kg</td>
<td>13.2kg</td>
<td>14.9kg</td>
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<tr>
<td>Drainage</td>
<td>None</td>
<td>None</td>
<td>Have</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power source</td>
<td>AC100-120V/AC220-240V 50/60Hz</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>
ULTRASONIC-CLEANERS

**DCS-Series, Multi Function Ultrasonic Cleaners**

**Functions:**

- **Degassing** is the removal of dissolved oxygen trapped in a liquid. In ultrasonic cleaning systems, trapped, dissolved oxygen in the ultrasonic cleaning solution will hinder the ability of the system to clean. This dissolved oxygen must be removed from the bath by quick degassing before cleaning.
- The **Sweep function** guarantees an optimum sound field distribution in the cleaning bath due to a modulation of the frequencies.
- **Pulse** – activatable power increase of approx. 20% by inforcement of the peak performance
- Ultra sonic **power set** 40%–70%–100%.

**Features Illustration:**

- **1) Power ON/OFF**
- **2) START/PAUSE & Memory Setting**
- **3) Ultrasonic power setting**
- **4) Sweep button**
- **5) Degas button**
- **6) Pulse button**
- **7) Timer setting**
- **8) LED indicator for Ultrasound**
- **9) Power window shows**
- **10) Frequency window shows**
- **11) Window shows the minute & sec just set or minute remained in ultrasonic cleaning process**
- **12) Actual °C/°F window shows the current temperature of cleaning fluid inside the tank**
- **13) LED indicator for Heating in process**
- **14) Heating setting**

**All the buttons are touch-sensitive**
- LCD window shows
- Electronic time & temperature control
- Autostart temperature-controlled / temperature pre-selection
- Separate excitation type
- High-performance transducer systems
- Dry run proof ceramic heating
- 0-60 Min timer, 0-80°C heating
- Quick degassing before cleaning
- Improved cleaning uniformity with sweep
- Boost high-strength cleaning power 120% with Pulse
- Ultra sonic power set 40%–70%–100%
- Safety switch-off.

**functions:**
- **Degassing** is the removal of dissolved oxygen trapped in a liquid. In ultrasonic cleaning systems, trapped, dissolved oxygen in the ultrasonic cleaning solution will hinder the ability of the system to clean. This dissolved oxygen must be removed from the bath by quick degassing before cleaning.
- **Sweep function** guarantees an optimum sound field distribution in the cleaning bath due to a modulation of the frequencies.
- **Pulse** – activatable power increase of approx. 20% by inforcement of the peak performance
- **Ultra sonic power set** 40%–70%–100%

**Model**

<table>
<thead>
<tr>
<th>Model</th>
<th>DCS-120H</th>
<th>DCS-150H</th>
<th>DCS-200H</th>
<th>DCS-250H</th>
<th>DCS-300H</th>
<th>DCS-400H</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Operating Frequency</strong></td>
<td>37Khz</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Tank capacity (Liters)</strong></td>
<td>3</td>
<td>6</td>
<td>10</td>
<td>15</td>
<td>20</td>
<td>27</td>
</tr>
<tr>
<td><strong>Internal tank size (mm)</strong></td>
<td>L238xW138xH100</td>
<td>L302xW152xH150</td>
<td>L302xW239xH150</td>
<td>L325xW295xH150</td>
<td>L498xW296xH150</td>
<td>L498xW296xH200</td>
</tr>
<tr>
<td><strong>External DIM. (mm)</strong></td>
<td>L270xW170xH240</td>
<td>L330xW180xH310</td>
<td>L330xW270xH310</td>
<td>L360xW330xH310</td>
<td>L550xW330xH310</td>
<td>L550xW330xH360</td>
</tr>
<tr>
<td><strong>Internal tank stuff</strong></td>
<td>SUS 201 #1.0t</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>External stuff</strong></td>
<td>SUS 201</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>LID cover stuff</strong></td>
<td>Stainless steel SUS 201</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Timer</strong></td>
<td>0-60 min</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Ultrasonic power</strong></td>
<td>160W</td>
<td>240W</td>
<td>320W</td>
<td>360W</td>
<td>480W</td>
<td>640W</td>
</tr>
<tr>
<td><strong>Heating Power</strong></td>
<td>100W</td>
<td>300W</td>
<td>500W</td>
<td>500W</td>
<td>600W</td>
<td>800W</td>
</tr>
<tr>
<td><strong>Net Weight</strong></td>
<td>3.2Kg</td>
<td>6.2Kg</td>
<td>8.2Kg</td>
<td>10.2Kg</td>
<td>13.2Kg</td>
<td>14.9Kg</td>
</tr>
<tr>
<td><strong>Drainage</strong></td>
<td>None</td>
<td>Have</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Power source</strong></td>
<td>AC100–120V/AC220–230V 50/60Hz</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
DCF-H Series, Noiseless Ultrasonic Cleaners

**Functions:**
- Super low noise machine. Noise level less than 60dB
- Power adjustable: 40%, 70% and 100%, ensure that more fragile, delicate glassware is not damaged
- 3 kinds of different frequencies (45kHz, 65kHz, 45&65kHz) to meet different cleaning requirements
- Extended degassing capabilities (up to 60mins) allow for “beyond cleaning” applications for sample preparation
- Intelligent LCD operation panel two language for free choose: English and Chinese
- Temperature (°C/°F) for option
- Side-mounted drainage valve (except for 3L)
- Easy one-button operation
- Memory function
- Completely programmable, you can freely set parameters as required
- Patent products.

**Applications:**
Special use for industry of laboratory, medical, biochemistry, microbiology, physics, agronomy, foodstuff, pharmacy, etc. For cleaning, cell separation, cell lysis, mixing, extraction, emulsifying, sonochemistry, sample preparation, nano-fabrication & degassing of liquids.

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### DCF-H Series

<table>
<thead>
<tr>
<th>Model</th>
<th>DCF-120H</th>
<th>DCF-150H</th>
<th>DCF-200H</th>
<th>DCF-400H</th>
</tr>
</thead>
<tbody>
<tr>
<td>** Operating Frequency**</td>
<td>37kHz</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Volume (Liters)</strong></td>
<td>3</td>
<td>6</td>
<td>10</td>
<td>30</td>
</tr>
<tr>
<td><strong>Tank size (LxWxH) (mm)</strong></td>
<td>L240xW114xH100</td>
<td>L300xW155xH150</td>
<td>L300xW240xH150</td>
<td>L498xW296xH200</td>
</tr>
<tr>
<td><strong>Unit size (LxWxH) (mm)</strong></td>
<td>L320xW165xH285</td>
<td>L400xW180xH315</td>
<td>L400xW270xH315</td>
<td>L605xW330xH365</td>
</tr>
<tr>
<td><strong>Ultrasonic power (W)</strong></td>
<td>100</td>
<td>150</td>
<td>200</td>
<td>500</td>
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<tr>
<td><strong>Heating power (W)</strong></td>
<td>100</td>
<td>300</td>
<td>300</td>
<td>500</td>
</tr>
<tr>
<td><strong>Frequency (kHz)</strong></td>
<td>Three frequency for option: 45kHz, 65kHz, 45&amp;65kHz</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Temperature (°C/°F)</strong></td>
<td>0-65°C/32-149°F</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Timer</strong></td>
<td>1-60mins/ untimed</td>
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</tr>
</tbody>
</table>

### SONICA 36L/40L/65L/96L/117L/157L/206L, Industrial Ultrasonic Water Bath Cleaners

**Applications:**
Industry Ultrasonic Cleaner can be used in industry & mining enterprise, universities, colleges and scientific research unit laboratory; Hospital; Electronic workshop assembly line; Clock and watch eyeglasses shop, jewelry; Jeweler’s shop; Electronic products, mechanical hardware fitting, eyeglasses, jewelry, clock and watch, money, fruit and so on. The Industry Ultrasonic can also be used in household, to clean personal articles such as gold and silver jewelry, necklaces, earrings, glasses & nozzles.

**Features:**
- Whole machine made of SUS304 stainless steel for acid-proof, anti-corrosive, 2mm thickness.
- Industrial grade ultrasonic transducer, moisture-proofed PCB
- Temperature can be set from 30-110°C
- Industrial grade for 24 hours continuous working
- Advanced generator, sweep frequency, high quality, better effect
- Ultrasonic frequency: 28Khz (optional: 40, 68, 80 or 120Khz)
- Material: Stainless steel with diamond-shaped figures. (Tank, Housing, Basket, Lid)
- High-performance transducer, steady & durable performance
- Secure and stable PCB
- Ultrasonic power can be adjusted from 0-100%.

**SONICA-96L**

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions (LxWxH) (mm)</th>
<th>Volume (L)</th>
<th>Ultrasonic Power (W)</th>
<th>Ultrasonic Frequency (KHz)</th>
<th>Heating Power (W)</th>
<th>Heating Temp. (°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SONICA 36L</td>
<td>510x300x250</td>
<td>36</td>
<td>720</td>
<td>28/40</td>
<td>500</td>
<td>30-110</td>
</tr>
<tr>
<td>SONICA 40L</td>
<td>400x300x330</td>
<td>40</td>
<td>720</td>
<td>28/40</td>
<td>2000</td>
<td>30-110</td>
</tr>
<tr>
<td>SONICA 65L</td>
<td>500x350x360</td>
<td>65</td>
<td>1080</td>
<td>28/40</td>
<td>3000</td>
<td>30-110</td>
</tr>
<tr>
<td>SONICA 96L</td>
<td>600x600x400</td>
<td>96</td>
<td>1440</td>
<td>28/40</td>
<td>4000</td>
<td>30-110</td>
</tr>
<tr>
<td>SONICA 117L</td>
<td>650x450x400</td>
<td>117</td>
<td>1800</td>
<td>28/40</td>
<td>4000</td>
<td>30-110</td>
</tr>
<tr>
<td>SONICA 157L</td>
<td>700x500x450</td>
<td>157</td>
<td>2160</td>
<td>28/40</td>
<td>5000</td>
<td>30-110</td>
</tr>
<tr>
<td>SONICA 206L</td>
<td>750x550x500</td>
<td>206</td>
<td>2520</td>
<td>28/40</td>
<td>6000</td>
<td>30-110</td>
</tr>
</tbody>
</table>
**CAV-METER-2, Cavitation Meter**

Our Ultrasonic Cleaning Cavitation Intensity Meter instantly measures ultrasonic energy (cavitation) directly in ultrasonic cleaning tanks. It is used to measure ultrasonic energy simply by dipping the cavitation meter probe into an ultrasonic tank. It is very rugged and built to last a lifetime. The solid stainless steel probe can be used in any harsh chemical & extreme environments.

With our cavitation meter, one can:
- Detect loss of ultrasonic energy with periodic readings
- Calculate best work loads
- Determine most efficient baskets & work fixtures
- Compare energy from tank to tank
- Compare energy level over life of tank
- Compare energy in tank loaded & unloaded
- Day to day comparative readings

<table>
<thead>
<tr>
<th>Model</th>
<th>CAV-METER-2</th>
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</thead>
<tbody>
<tr>
<td>Range</td>
<td>0–100, 0–1000, 0–5000 Cavins</td>
</tr>
<tr>
<td>Self powered</td>
<td>No batteries</td>
</tr>
<tr>
<td>Weight</td>
<td>1Kg</td>
</tr>
<tr>
<td>Temperature range</td>
<td>Probe -100°C to +400°C, Meter 0 to +50°C</td>
</tr>
<tr>
<td>Standard probe</td>
<td>16” stainless steel indestructible</td>
</tr>
<tr>
<td>Optional probes</td>
<td>22”, 28”, or remote</td>
</tr>
<tr>
<td>Case</td>
<td>ABS</td>
</tr>
<tr>
<td>Meter</td>
<td>3.75” analog with glass window</td>
</tr>
</tbody>
</table>