The brand new portable 7" full touch panel capacitive LCD, featuring multi-point touch panel method which allows engineers to move waveform position, adjust waveform size, and set trigger conditions easily, subverts the traditional handheld instrument. With this unique feature, engineers can retrieve DUT’s signals easily under the complex working environment. Landscape or portrait measurement display not only clearly shows waveforms under full screen status but also combines multi-functional measurement environment to achieve unimaginable measurement results.

Built-in, the second to none, the longest 5M sample memory depth helps engineers diagnose waveforms in great details. The long memory depth can record detailed waveform data and help engineers reproduce the original waveforms while engineers are conducting long observation or retrieving detailed transient signals. Any delicate changes of analog waveforms can be clearly presented in front of engineers when they adjust time scale from long to short that leaves no measurement problems unanswered.

Built-in 50,000 counts (GDS-300) or 5,000 counts (GDS-200) DMM helps engineers accurately measure DUT’s electric parameters including not only measurements of D.C. voltage, A.C. voltage, D.C. current, A.C. current, resistance and diode polarity, but also temperature measurement and monitoring. The analysis of trend diagrams further completes test and measurement. DMM can simultaneously work with oscilloscope to conduct multi-measurement tasks.

Normally, engineers wish to effectively record intermittent signals while retrieving a series of signals during a long period of time. GDS-300/GDS-200’s built-in 30,000 consecutive waveform records logging function not only records 30,000 waveform records in a long period of time but also replays the recorded data that allows engineers to identify intermittent problems occurred during the recorded time. Leave no problems unidentified.

Engineers need to isolate power and solve corresponding grounding issue while conducting circuit debugging. One of the criteria engineers must overcome is to maintain system grounding and isolation safety in the strict test and measurement environment such as no grounding system or no isolation. GDS-300/200 provide optional differential probe to effectively assist engineers in solving isolation and grounding problems that elevates the efficiency and safety of test and measurement.

Engineers often need some calculation tool software to conduct circuit design and debugging analysis during the R&D process. GDS-300/200 oscilloscopes, with the built-in standard engineering calculator, allow engineers to verify parameters during the test and measurement process. While using unknown resistance, engineers can obtain resistance value via color coding calculation software. If any attenuator was designed in the circuit, GDS-300/200 can also provide corresponding attenuator model and attenuation value calculation.
### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Channels</th>
<th>GDS-307</th>
<th>GDS-310</th>
<th>GDS-320</th>
<th>GDS-207</th>
<th>GDS-210</th>
<th>GDS-220</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 (BNC-Shield)</td>
<td>1MΩ±15%, 16.5pF approx.</td>
<td>CAT II 300V RMS</td>
<td>AC, D, GND</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bandwidth</td>
<td>DC–70MHz (±3dB)</td>
<td>DC–100MHz (±3dB)</td>
<td>DC–200MHz (±3dB)</td>
<td>DC–70MHz (±3dB)</td>
<td>DC–100MHz (±3dB)</td>
<td>DC–200MHz (±3dB)</td>
</tr>
<tr>
<td>Rise Time</td>
<td>&lt;5ns</td>
<td>&lt;1.75ns</td>
<td>&lt;5ns</td>
<td>&lt;1.75ns</td>
<td>&lt;5ns</td>
<td>&lt;1.75ns</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>2mV/div–10V/div (1–2–5 increments)</td>
<td>±(3% x Readout + 0.1 div + 1mV)</td>
<td>±(3% x Readout + 0.1 div + 1mV)</td>
<td>±(3% x Readout + 0.1 div + 1mV)</td>
<td>±(3% x Readout + 0.1 div + 1mV)</td>
<td>±(3% x Readout + 0.1 div + 1mV)</td>
</tr>
<tr>
<td>Accuracy</td>
<td>20MHz (±3dB)</td>
<td>Normal, Invert</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coupling</td>
<td>DC–25MHz: ±0.5div or 5mV; 25MHz–70/100/200MHz: ±0.5div or 15mV</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sensitivity</td>
<td>DC–25MHz: ±0.5div or 5mV; 25MHz–70/100/200MHz: ±0.5div or 15mV</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Channel Length</td>
<td>5000 counts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>CAT II 600V RMS, CAT III 3000V RMS</td>
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</tr>
<tr>
<td>DC Voltage</td>
<td>50mV, 500mV, 5V, 50V, 500V, 1000V 6 ranges</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Input Impedance</td>
<td>10mΩ</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>DC Current</td>
<td>50mA, 50mA, 10A 3 ranges</td>
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<td></td>
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</tr>
<tr>
<td>AC Voltage</td>
<td>GDS-320/310/320: 50mA, 20A, ±(0.1% x 5 div + 5 div), 10A, ±0.5% x 1 div</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Input Accuracy</td>
<td>±(0.5% x 1 div)</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>AC Current</td>
<td>GDS-320/310/320: 50mA, 20A, ±(0.1% x 5 div + 5 div), 10A, ±0.5% x 1 div</td>
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<td></td>
</tr>
<tr>
<td>AC Voltage Accuracy</td>
<td>±(0.5% x 1 div)</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Resistance</td>
<td>500Ω, 1kΩ, 10kΩ, 50kΩ, 1MΩ 6 ranges</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature Range</td>
<td>0°C–+100°C</td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>Continuity Test</td>
<td>0.1Ω</td>
<td></td>
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</tr>
<tr>
<td>Differential Probe</td>
<td>Dual-channel, 40MHz, CAT II 600V</td>
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</tr>
<tr>
<td>Power Adaptor</td>
<td>AC 100V–240V, 47–63Hz, Power Consumption 40W; DC Output: 12V/3A, Double Shield</td>
<td></td>
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</tr>
</tbody>
</table>

### ASSESSORIES

- Quick start guide x 1
- User manual CD x 1
- Power cord x 1
- 150MHz Probe, Suitable for GDS-307/310/320
- 250MHz Probe, Suitable for GDS-207/210/220
- Multimeter Test Lead x 2
- Vertical Calibration Cable
- Test Clip, Suitable for GDS-307/310/320
- USB Cable, USB 2.0, A-mini B Type, 1400mm

### ORDERING INFORMATION

- **GDS-320**: 200MHz, 2 Channels, Digital Oscilloscope
- **GDS-310**: 100MHz, 2 Channels, Digital Oscilloscope
- **GDS-307**: 70MHz, 2 Channels, Digital Oscilloscope
- **GDS-207**: 70MHz, 2 Channels, Digital Oscilloscope
- **GDS-220**: 200MHz, 2 Channels, Digital Oscilloscope
- **GDS-210**: 100MHz, 2 Channels, Digital Oscilloscope
- **GDS-207**: 70MHz, 2 Channels, Digital Oscilloscope

### ORDERING INFORMATION

- **GDS-307**: 200MHz, 2 Channels, Digital Oscilloscope
- **GDS-310**: 100MHz, 2 Channels, Digital Oscilloscope
- **GDS-307**: 70MHz, 2 Channels, Digital Oscilloscope
- **GDS-220**: 200MHz, 2 Channels, Digital Oscilloscope
- **GDS-210**: 100MHz, 2 Channels, Digital Oscilloscope
- **GDS-207**: 70MHz, 2 Channels, Digital Oscilloscope

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<tr>
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<th>GDS-210</th>
<th>GDS-220</th>
</tr>
</thead>
<tbody>
<tr>
<td>200MHz, 2 Channels, Digital Oscilloscope</td>
<td>100MHz, 2 Channels, Digital Oscilloscope</td>
<td>70MHz, 2 Channels, Digital Oscilloscope</td>
<td>200MHz, 2 Channels, Digital Oscilloscope</td>
<td>100MHz, 2 Channels, Digital Oscilloscope</td>
<td>70MHz, 2 Channels, Digital Oscilloscope</td>
<td>200MHz, 2 Channels, Digital Oscilloscope</td>
</tr>
</tbody>
</table>

### ORDERING INFORMATION

- **GDS-307**: 200MHz, 2 Channels, Digital Oscilloscope
- **GDS-310**: 100MHz, 2 Channels, Digital Oscilloscope
- **GDS-307**: 70MHz, 2 Channels, Digital Oscilloscope
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