The digimes® HS20 and HS60 are general purpose 20MHz 100MS/s and 60MHz 250MS/s, 2 channel, colour digital storage oscilloscopes. These hand held units feature a back lit 3.5 inch colour LCD display with 320 x 240 resolution and 4096 colours. The specification includes separate isolated inputs for the oscilloscope and in built 4000 count multimeter. Up to 4 waveforms can be stored and a USB interface is fitted as standard. The oscilloscope is supplied with a lockable aluminium storage case, rechargeable battery, mains adapter/charger, two X1/X10 probes, USB lead, PC software, 20A current shunt, capacitance adapter, multimeter probes and operating manual.

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<th>Specification</th>
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<td><strong>OSCILLOSCOPE</strong></td>
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<td>DISPLAY</td>
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<td>Resolution</td>
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<tr>
<td>3.5 inch Colour LCD back lit</td>
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<td>320 x 240, 4096 colours</td>
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<td>Dots or vectors</td>
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<td>Persistence</td>
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| **INPUT** | **MEASUREMENT** |
| Casinging | Voltage diff (AV), time diff (DT) |
| Impedance | P-pk value, average value, rms value, frequency and period |
| Max input voltage | |
| 400V (peak) CAT II | |
| Channel delay time (typical) | |
| 150ps | |
| Probe attenuation coefficient | |
| X1, X10, X100, X1000 | |

| **HORIZONTAL** | **WAVEFORM MATHS** |
| Sampling range | Function |
| 100ns to maximum | CH1-Ch2, CH2-Ch1, |
| Record length | CH1+CH2, CH1+CH2, |
| 8x points per channel | CH1/CH2 |
| Sample rate delay time accuracy | |
| 1ns | |
| Time interval | |
| 1ns | |
| [T] measurement accuracy | |
| Full bandwidth | |

| **VERTICAL** | **MULTIMETER** |
| A/D converter | No of counts |
| 8 bit resolution, 2 channel | 4000 |
| Sensitivity | Impedance |
| 5mV/div - 5V/div | 10MΩ |
| Analogue bandwidth | Diode test |
| HS20 20MHz, HS60 60MHz | 0 to 1.5V |
| Single bandwidth | Continuity test |
| Full bandwidth | Proc 0.02% |
| Low frequency response | DC voltage (max imp) |
| 5Hz AC coupling -3dB | 400.0mV ± 1% ± 1dig, 400.0V ± 1% ± 1dig, |
| Rise time | 1000V dc/ac pk-pk |
| HS20 ≤ 15ns, HS60 ≤ 5.83ns | 4.00V, 4.000V, 4.00V |
| DC gain accuracy | AC voltage (max imp 750V ac rms) |
| ± 5% | 400.0V ± 1% ± 1dig, 400.0mV ± 1% ± 1dig, |
| DC accuracy average mode | 40.00V, 40.000V, 40.0V ± 1% ± 1dig, |
| | 1000V ± 1% ± 1dig, 100.0V ± 1% ± 1dig, |
| Trigger | Resistance |
| CH1, CH2 | 40.000V ± 1% ± 3dig, 4.000K |
| Trigger source | Capacitance |
| Auto, Norm, Single, Edge, TV | 40.00V, 40.000V, 40.0V ± 1% ± 1dig, |
| Trigger mode | 51.20nF, 512.0nF, 5.12μF, |
| Trigger coupling | 51.20μF, 100.0μF ± 3% ± 3dig |
| Trigger sensitivity (Edge) | |
| CH1 & CH2: 1div (dc to bw) | |

| **ORDER INFORMATION** |
| HUC767-00 HS20 | HUC767-10 HS60 |

| **GENERAL** |
| Power supply (adapter) | 100-240V ac rms 50/60Hz |
| Battery (rechargeable) | 7.4V 3500mAh lithium |
| Power consumption | 8W |
| Working temp & rel hum | 5 - 40°C, 20% - 80% |
| Weight & dim (W x H x D) | 645g, 115 x 180 x 40mm |

| **ORDER INFORMATION** |
| HUC767-00 HS20 | HUC767-10 HS60 |

| 20MHz colour oscilloscope | 80MHz colour oscilloscope |