




	Tektronix 7 Series DPO	Tektronix 6 Series B MSO	Tektronix DPO70000SX	Keysight Infiniium XR8	Keysight Infiniium UXR-B	Teledyne-LeCroy WaveMaster 8000HD																																																																																																																																																																												
<b>Specification</b>																																																																																																																																																																																		
<b>Bandwidths</b>	8, 10, 13, 16, 20, 25 GHz	1, 2.5, 4, 6, 8, 10 GHz	13, 16, 20, 23, 25, 33 GHz	8, 10, 13, 16, 20, 25, 33 GHz	10, 13, 16, 20, 25, 33 GHz	6, 8, 13, 16, 20, 25, 33 GHz																																																																																																																																																																												
<b>Channels</b>	4	4, 6, 8	4 (16 via UltraSync)	4	4 (20-40 via MultiScope)	4 ProBus @ 2 GHz 4 ProAxial @ 33 GHz																																																																																																																																																																												
<b>ADC Resolution</b>	12-bit	12-bit	8-bit	12-bit	10-bit	12-bit																																																																																																																																																																												
<b>ENOB (Effective Number of Bits)</b>	<table border="1"> <tr><td>bits</td><td>7.7</td><td>7.6</td><td>7.3</td><td>7.2</td><td>7.0</td><td>6.7</td></tr> <tr><td>GHz</td><td>8</td><td>10</td><td>13</td><td>16</td><td>20</td><td>25</td></tr> <tr><td colspan="7">500 mV FS, Signal 80% FS</td></tr> <tr><td>bits</td><td>7.5</td><td>7.4</td><td>7.2</td><td>7.1</td><td>6.9</td><td>6.5</td></tr> <tr><td>GHz</td><td>8</td><td>10</td><td>13</td><td>16</td><td>20</td><td>25</td></tr> <tr><td colspan="7">500 mV FS, Signal 90% FS</td></tr> </table>	bits	7.7	7.6	7.3	7.2	7.0	6.7	GHz	8	10	13	16	20	25	500 mV FS, Signal 80% FS							bits	7.5	7.4	7.2	7.1	6.9	6.5	GHz	8	10	13	16	20	25	500 mV FS, Signal 90% FS							<table border="1"> <tr><td>bits</td><td>7.15</td><td>7</td><td>6.85</td><td>6.75</td><td>6.6</td></tr> <tr><td>GHz</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> <tr><td colspan="6">500 mV FS, Signal 90% FS</td></tr> </table>	bits	7.15	7	6.85	6.75	6.6	GHz	6	7	8	9	10	500 mV FS, Signal 90% FS						<table border="1"> <tr><td>bits</td><td>5.9</td><td>5.8</td><td>5.5</td><td>5.4</td><td>5.2</td><td>5.0</td></tr> <tr><td>GHz</td><td>13</td><td>16</td><td>20</td><td>23</td><td>25</td><td>33</td></tr> <tr><td colspan="7">500 mV FS, Signal 90% FS</td></tr> </table>	bits	5.9	5.8	5.5	5.4	5.2	5.0	GHz	13	16	20	23	25	33	500 mV FS, Signal 90% FS							<table border="1"> <tr><td>bits</td><td>7.6</td><td>7.4</td><td>7.2</td><td>7.1</td><td>6.9</td><td>6.7</td><td>6.4</td></tr> <tr><td>GHz</td><td>8</td><td>10</td><td>13</td><td>16</td><td>20</td><td>25</td><td>33</td></tr> <tr><td colspan="8">400 mV FS, Signal %FS Unspecified</td></tr> </table>	bits	7.6	7.4	7.2	7.1	6.9	6.7	6.4	GHz	8	10	13	16	20	25	33	400 mV FS, Signal %FS Unspecified								<table border="1"> <tr><td>bits</td><td>7.0</td><td>6.8</td><td>6.7</td><td>6.5</td><td>6.2</td><td>5.9</td></tr> <tr><td>GHz</td><td>10</td><td>13</td><td>16</td><td>20</td><td>25</td><td>33</td></tr> <tr><td colspan="7">400 mV FS, Signal %FS Unspecified</td></tr> </table>	bits	7.0	6.8	6.7	6.5	6.2	5.9	GHz	10	13	16	20	25	33	400 mV FS, Signal %FS Unspecified							<table border="1"> <tr><td>bits</td><td>6.37</td><td>6.07</td><td>5.6</td><td>5.49</td><td>6.14</td><td>5.96</td><td>5.62</td></tr> <tr><td>GHz</td><td>6</td><td>8</td><td>13</td><td>16</td><td>20</td><td>25</td><td>33</td></tr> <tr><td colspan="8">Unspecified FS, Signal 80% FS</td></tr> </table>	bits	6.37	6.07	5.6	5.49	6.14	5.96	5.62	GHz	6	8	13	16	20	25	33	Unspecified FS, Signal 80% FS																													
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<b>Rise Time (10-90%)</b>	50 ps (8 GHz) to 16 ps (25 GHz)	40 ps (10 GHz)	32 ps (13 GHz) to 13 ps (33 GHz)	55 ps (8 GHz) to 13 ps (33 GHz)	44 ps (10 GHz) to 13 ps (33 GHz)	77 ps (6 GHz) to 15.9/12.6 ps (25/33 GHz)																																																																																																																																																																												
<b>Vertical Noise<sup>1,2</sup> (Small Scale) (rms)</b>	<table border="1"> <tr><td>µV</td><td>254</td><td>279</td><td>320</td><td>377</td><td>418</td><td>550</td></tr> <tr><td>% FS</td><td>0.13%</td><td>0.14%</td><td>0.16%</td><td>0.19%</td><td>0.21%</td><td>0.28%</td></tr> <tr><td>GHz</td><td>8</td><td>10</td><td>13</td><td>16</td><td>20</td><td>25</td></tr> <tr><td colspan="7">200 mV FS</td></tr> </table>	µV	254	279	320	377	418	550	% FS	0.13%	0.14%	0.16%	0.19%	0.21%	0.28%	GHz	8	10	13	16	20	25	200 mV FS							<table border="1"> <tr><td>µV</td><td>412</td><td>457</td><td>501</td><td>549</td><td>602</td></tr> <tr><td>% FS</td><td>0.21%</td><td>0.23%</td><td>0.25%</td><td>0.27%</td><td>0.30%</td></tr> <tr><td>GHz</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> <tr><td colspan="6">200 mV FS</td></tr> </table>	µV	412	457	501	549	602	% FS	0.21%	0.23%	0.25%	0.27%	0.30%	GHz	6	7	8	9	10	200 mV FS						<table border="1"> <tr><td>µV</td><td>990</td><td>1040</td><td>1130</td><td>1140</td><td>1380</td><td>1520</td></tr> <tr><td>% FS</td><td>0.50%</td><td>0.52%</td><td>0.57%</td><td>0.57%</td><td>0.69%</td><td>0.76%</td></tr> <tr><td>GHz</td><td>13</td><td>16</td><td>20</td><td>23</td><td>25</td><td>33</td></tr> <tr><td colspan="7">200 mV FS</td></tr> </table>	µV	990	1040	1130	1140	1380	1520	% FS	0.50%	0.52%	0.57%	0.57%	0.69%	0.76%	GHz	13	16	20	23	25	33	200 mV FS							<table border="1"> <tr><td>µV</td><td>300</td><td>323</td><td>370</td><td>403</td><td>460</td><td>533</td><td>646</td></tr> <tr><td>% FS</td><td>0.15%</td><td>0.16%</td><td>0.19%</td><td>0.20%</td><td>0.23%</td><td>0.27%</td><td>0.32%</td></tr> <tr><td>GHz</td><td>8</td><td>10</td><td>13</td><td>16</td><td>20</td><td>25</td><td>33</td></tr> <tr><td colspan="8">200 mV FS</td></tr> </table>	µV	300	323	370	403	460	533	646	% FS	0.15%	0.16%	0.19%	0.20%	0.23%	0.27%	0.32%	GHz	8	10	13	16	20	25	33	200 mV FS								<table border="1"> <tr><td>µV</td><td>322</td><td>377</td><td>414</td><td>469</td><td>541</td><td>702</td></tr> <tr><td>% FS</td><td>0.20%</td><td>0.24%</td><td>0.26%</td><td>0.29%</td><td>0.34%</td><td>0.44%</td></tr> <tr><td>GHz</td><td>10</td><td>13</td><td>16</td><td>20</td><td>25</td><td>33</td></tr> <tr><td colspan="7">160 mV FS</td></tr> </table>	µV	322	377	414	469	541	702	% FS	0.20%	0.24%	0.26%	0.29%	0.34%	0.44%	GHz	10	13	16	20	25	33	160 mV FS							<table border="1"> <tr><td>µV</td><td>380</td><td>498</td><td>672</td><td>712</td><td>502</td><td>592</td><td>624</td></tr> <tr><td>% FS</td><td>0.24%</td><td>0.31%</td><td>0.42%</td><td>0.45%</td><td>0.31%</td><td>0.37%</td><td>0.39%</td></tr> <tr><td>GHz</td><td>6</td><td>8</td><td>13</td><td>16</td><td>20</td><td>25</td><td>33</td></tr> <tr><td colspan="8">160 mV FS</td></tr> </table>	µV	380	498	672	712	502	592	624	% FS	0.24%	0.31%	0.42%	0.45%	0.31%	0.37%	0.39%	GHz	6	8	13	16	20	25	33	160 mV FS							
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<b>Vertical Noise<sup>1,2</sup> (Very Large Scale) (rms)</b>	<table border="1"> <tr><td>mV</td><td>5.01</td><td>5.5</td><td>6.48</td><td>7.55</td><td>8.53</td><td>10.3</td></tr> <tr><td>% FS</td><td>0.10%</td><td>0.11%</td><td>0.13%</td><td>0.15%</td><td>0.17%</td><td>0.21%</td></tr> <tr><td>GHz</td><td>8</td><td>10</td><td>13</td><td>16</td><td>20</td><td>25</td></tr> <tr><td colspan="7">5V FS</td></tr> </table>	mV	5.01	5.5	6.48	7.55	8.53	10.3	% FS	0.10%	0.11%	0.13%	0.15%	0.17%	0.21%	GHz	8	10	13	16	20	25	5V FS							<table border="1"> <tr><td>mV</td><td>19</td><td>21.1</td><td>23.1</td><td>25</td><td>27.4</td></tr> <tr><td>% FS</td><td>0.19%</td><td>0.21%</td><td>0.23%</td><td>0.25%</td><td>0.27%</td></tr> <tr><td>GHz</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> <tr><td colspan="6">10 V FS</td></tr> </table>	mV	19	21.1	23.1	25	27.4	% FS	0.19%	0.21%	0.23%	0.25%	0.27%	GHz	6	7	8	9	10	10 V FS						<table border="1"> <tr><td>mV</td><td>25.74</td><td>26.65</td><td>29.53</td><td>29.65</td><td>35.04</td><td>39.82</td></tr> <tr><td>% FS</td><td>0.43%</td><td>0.44%</td><td>0.49%</td><td>0.49%</td><td>0.58%</td><td>0.66%</td></tr> <tr><td>GHz</td><td>13</td><td>16</td><td>20</td><td>23</td><td>25</td><td>33</td></tr> <tr><td colspan="7">6 V FS</td></tr> </table>	mV	25.74	26.65	29.53	29.65	35.04	39.82	% FS	0.43%	0.44%	0.49%	0.49%	0.58%	0.66%	GHz	13	16	20	23	25	33	6 V FS							<table border="1"> <tr><td>mV</td><td>6.22</td><td>6.85</td><td>8.3</td><td>8.78</td><td>10.3</td><td>12.1</td><td>14.9</td></tr> <tr><td>% FS</td><td>0.12%</td><td>0.14%</td><td>0.17%</td><td>0.18%</td><td>0.21%</td><td>0.24%</td><td>0.30%</td></tr> <tr><td>GHz</td><td>8</td><td>10</td><td>13</td><td>16</td><td>20</td><td>25</td><td>33</td></tr> <tr><td colspan="8">5 V FS</td></tr> </table>	mV	6.22	6.85	8.3	8.78	10.3	12.1	14.9	% FS	0.12%	0.14%	0.17%	0.18%	0.21%	0.24%	0.30%	GHz	8	10	13	16	20	25	33	5 V FS								<table border="1"> <tr><td>mV</td><td>14.1</td><td>15.5</td><td>17.2</td><td>19.2</td><td>22.3</td><td>28.8</td></tr> <tr><td>% FS</td><td>0.18%</td><td>0.19%</td><td>0.22%</td><td>0.24%</td><td>0.28%</td><td>0.36%</td></tr> <tr><td>GHz</td><td>10</td><td>13</td><td>16</td><td>20</td><td>25</td><td>33</td></tr> <tr><td colspan="7">8 V FS</td></tr> </table>	mV	14.1	15.5	17.2	19.2	22.3	28.8	% FS	0.18%	0.19%	0.22%	0.24%	0.28%	0.36%	GHz	10	13	16	20	25	33	8 V FS							<table border="1"> <tr><td>mV</td><td>16.81</td><td>19.7</td><td>25.5</td><td>26</td><td>21.95</td><td>-</td><td>-</td></tr> <tr><td>% FS</td><td>0.21%</td><td>0.25%</td><td>0.32%</td><td>0.33%</td><td>0.27%</td><td>-</td><td>-</td></tr> <tr><td>GHz</td><td>6</td><td>8</td><td>13</td><td>16</td><td>20</td><td>25</td><td>33</td></tr> <tr><td colspan="8">8 V FS</td></tr> </table>	mV	16.81	19.7	25.5	26	21.95	-	-	% FS	0.21%	0.25%	0.32%	0.33%	0.27%	-	-	GHz	6	8	13	16	20	25	33	8 V FS							
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<b>Intrinsic Jitter (Aperture Uncertainty) (rms)</b>	<table border="1"> <tr><td>1 µs</td><td>10 µs</td><td>100 µs</td><td>1 ms</td></tr> <tr><td>60 fs</td><td>70 fs</td><td>70 fs</td><td>70 fs</td></tr> </table>	1 µs	10 µs	100 µs	1 ms	60 fs	70 fs	70 fs	70 fs	<table border="1"> <tr><td>1 µs</td><td>-</td><td>-</td><td>1 ms</td></tr> <tr><td>80 fs</td><td>-</td><td>-</td><td>130 fs</td></tr> </table>	1 µs	-	-	1 ms	80 fs	-	-	130 fs	<table border="1"> <tr><td>-</td><td>10 µs</td><td>-</td><td>-</td></tr> <tr><td>-</td><td>100 fs</td><td>-</td><td>-</td></tr> </table>	-	10 µs	-	-	-	100 fs	-	-	<table border="1"> <tr><td>1 µs</td><td>10 µs</td><td>100 µs</td><td>1 ms</td></tr> <tr><td>13 fs</td><td>18 fs</td><td>24 fs</td><td>38 fs</td></tr> </table>	1 µs	10 µs	100 µs	1 ms	13 fs	18 fs	24 fs	38 fs	<table border="1"> <tr><td>1 µs</td><td>10 µs</td><td>100 µs</td><td>1 ms</td></tr> <tr><td>15 fs</td><td>25 fs</td><td>40 fs</td><td>50 fs</td></tr> </table>	1 µs	10 µs	100 µs	1 ms	15 fs	25 fs	40 fs	50 fs	<table border="1"> <tr><td>1 µs</td><td>10 µs</td><td>100 µs</td><td>1 ms</td></tr> <tr><td>15 fs</td><td>28 fs</td><td>32 fs</td><td>33 fs</td></tr> </table>	1 µs	10 µs	100 µs	1 ms	15 fs	28 fs	32 fs	33 fs																																																																																																																												
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<b>Sample Rate</b>	125 GS/s	50 GS/s (2 ch), 25 GS/s (4 ch), 12.5 GS/s (8 ch)	100 GS/s (2 ch), 50 GS/s (4 ch)	128 GS/s	128 GS/s	80 GS/s (4 ch, 6-33 GHz) 160 GS/s (2 ch, 50-65 GHz) "Enhanced Sample Rate" similar to Tek's IT mode (Interpolated Time)																																																																																																																																																																												
<b>Record Length Std / Opt</b>	500 Mpoints / 2 Gpoints	62.5 Mpoints / 1 Gpoints	62.5 Mpoints / 1 Gpoints	1 Gpoints / 8 Gpoints	500 Mpoints / 2 Gpoints	200 Mpoints / 8 Gpoints																																																																																																																																																																												
<b>Maximum Waveform Capture Rate (wfms/s)</b>	>150,000 (4 ch simultaneously w/ FastAcq™)	>500,000 (4 ch simultaneously w/ FastAcq™)	>300,000 (4 ch simultaneously w/ FastAcq™)	N/A	N/A	N/A																																																																																																																																																																												
<b>Maximum segmented memory (record length) acquisition rate</b>	>30,000,000 (4 ch simultaneously w/ FastFrame™)	>5,000,000 (4 ch simultaneously w/ FastFrame™)	>310,000 (4ch simultaneously w/ FastFrame™)	N/A	>285,700 (4ch simultaneously w/ segmented memory)	>900,000 (4ch simultaneously w/ Sequence Mode)																																																																																																																																																																												
<b>Edge Trigger Bandwidth</b>	8 GHz to 25 GHz (digital)	1 GHz to 10 GHz (digital)	>25 GHz (analog)	8 GHz to 33 GHz (digital)	10 GHz to 33 GHz (digital)	<=15 GHz																																																																																																																																																																												
<b>Complex Trigger Bandwidth</b>	25 GHz (digital)	10 GHz (digital)	>25 GHz (analog)	Unspecified (analog)	Unspecified (analog)	Unspecified																																																																																																																																																																												
<b>Pulse Trigger Minimum Detectable Pulse Width</b>	< 32 ps	160 ps	< 40 ps	50 ps	50 ps	200 ps																																																																																																																																																																												
<b>Trigger Jitter (rms)</b>	10 fs	≤ 1.5 ps	10 fs	Unspecified	116 fs	< 0.1 ps																																																																																																																																																																												
<b>Trigger Latency (Ext Trig)</b>	Low-latency: <20 ns – Ch 1 (25 GHz) & Aux In (8 GHz) Normal: 1.8 µs – Ch1-4 (25 GHz) & Aux In (8 GHz)	1.1 µs	< 30 ns	Unspecified	Unspecified	Unspecified																																																																																																																																																																												
<b>Digital (MSO) Channels</b>	N/A	Up to 64 (requires TLP058 8 ch logic probe)	N/A	N/A	N/A	16 (internal) 18 (external box)																																																																																																																																																																												
<b>Digital (MSO) Sample Rate</b>	N/A	50 GS/s (2 ch), 25 GS/s (4 ch), 12.5 GS/s (8 ch)	N/A	N/A	N/A	2.5 GS/s (internal) 12.5 GS/s (external box)																																																																																																																																																																												
<b>Measurement Analysis &amp; Application Solutions</b>	Refer to <a href="#">Oscilloscope Selection Guide (46W-31080-xx)</a>	Refer to <a href="#">Oscilloscope Selection Guide (46W-31080-xx)</a>	Refer to <a href="#">Oscilloscope Selection Guide (46W-31080-xx)</a>	Refer to Keysight website	Refer to Keysight website	Refer to Teledyne LeCroy website																																																																																																																																																																												
<b>Connectivity</b>	10G LAN (SFP+) and 1G LAN	1G LAN	1G LAN	1G LAN	1G LAN	2.5G LAN																																																																																																																																																																												
<b>Storage</b>	Removeable 1.6 TB NVME (PCIe) SSD	Removeable 250 GB SATA SSD	Removeable 900 GB SATA SSD	Removeable 960 GB SATA SSD	Removeable 960 GB SATA SSD	Removeable (unspecified) GB SATA SSD																																																																																																																																																																												
<b>Display</b>	15.6" 1080p (1920x1080) w/ capacitive touch	15.6" 1080p (1920x1080) w/ capacitive touch	6.5" XGA (1024x768) w/ resistive touch	15.6" 1080p (1920x1080) w/ capacitive touch	15.4" XGA (1024x768) w/ capacitive touch	15.6" 1080p (1920x1080) w/ capacitive touch																																																																																																																																																																												
<b>Operating System</b>	Embedded (std) or Windows 10 (opt)	Embedded (std) or Windows 10 (opt)	Windows 10	Windows 11	Windows 11	Windows 11																																																																																																																																																																												

1-Full scale is defined by each vendor with following number of vertical divisions:

- Tektronix - 10
- Keysight - 8 or 10
- LeCroy - 8

2-Vertical Noise (rms) provided with both actual specified values from vendor's datasheet and as a % Full scale to normalize the vertical noise to enable comparisons between each vendor's scope given the difference in how each vendor defines Full scale.

% FS is calculated for a given V/div setting by dividing the vertical noise (rms) by the V/div setting. For example, for the 7 Series DPO, at 500 mV/div FS (Medium Scale), Tektronix specifies 1.13 mV vertical noise @ 25 GHz or 1.13 mV / 500 mV FS or 0.23% FS.