

# MSO4000 Series vs. LeCroy's Mixed Signal Solution

## Competitive Fact Sheet

### Solution Comparison

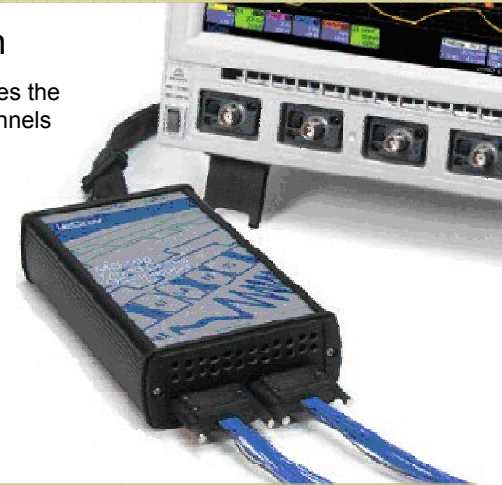
#### Tektronix MSO4000 Series

- ✓ MSO4000 Series offers integrated digital channels
- ✓ P6516 probe pod size  
1.7 in. x 1.2 in. (43 mm x 31 mm)
- ✓ Separate groups enable probing  
on both sides of board or distant test points  
(> 8 ft., >2.5 m)



#### LeCroy Mixed Signal Solution

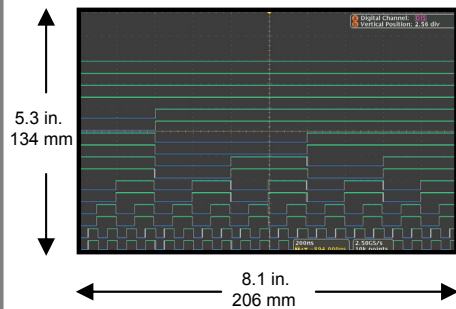
- ✗ WaveSurfer Xs or WaveRunner Xi requires the MS-500 external probe to add digital channels
- ✗ MS-500 probe pod size  
8.375 in. x 4.25 in. (213 mm x 108 mm)
- ✗ Grouped probe leads limit maximum  
distance between test points to less  
than 3 feet



### Waveform Display Comparison

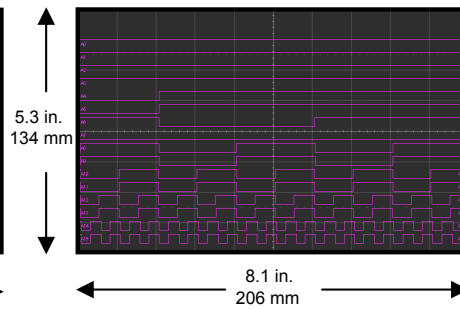
#### Tektronix MSO4000 Series

- ✓ 10.4 in. (264 mm) XGA Display  
(1024 X 768 pixels)



#### LeCroy WaveSurfer Xs and WaveRunner Xi

- ✗ 10.4 in. (264 mm) VGA Display  
(800 X 600 pixels)



### Key MSO Specifications Comparison

	Tektronix MSO4000 Series		LeCroy MS-500 with WaveSurfer Xs or WaveRunner Xi	
<b>Max. Digital Channel Timing Resolution</b>	✓	60.6 ps	✗	0.5* - 1 ns
<b>Minimum Detectable Pulse Width</b>	✓	1.5 ns	✗	Not specified
<b>Probe Impedance</b>	✓	3 pF    20 kΩ	✗	Not specified
<b>Threshold Settings</b>	✓	Per digital channel	✗	For each group of 9 channels
<b>Setup &amp; Hold Triggering</b>	✓	Across all analog & digital channels	✗	Not available
<b>Digital Channels</b>	✗	16	✓	18 - 36
<b>Max. Digital Channel Record Length</b>	✗	10 M points	✓	10 - 50* M points

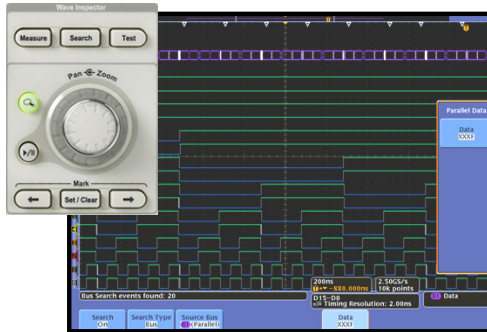
\* When only one 18-channel pod is used

# MSO4000 Series vs. LeCroy MS-500 Series Probes

## Competitive Fact Sheet 10

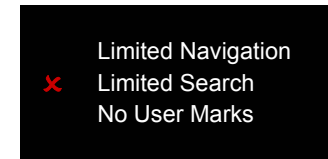
### Searching on Analog and Digital Data

#### Tektronix MSO4000 Series



- ✓ Wave Inspector® automatically searches through analog, digital, and bus waveforms.
- ✓ Front-panel pan/zoom controls for easy scrolling through long records.
- ✓ User Mark controls enable you to mark events of interest.

#### LeCroy MS-500 with WaveSurfer Xs or WaveRunner Xi

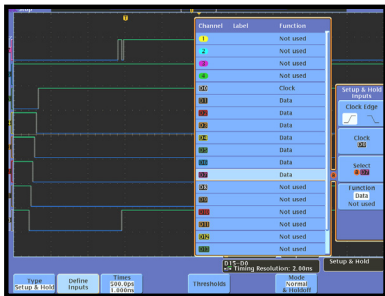


- ✗ Searching limited to manually scrolling through acquisition and various menu-based search tools
- ✗ WaveSurfer Xs uses multiplexed horizontal controls for pan/zoom.
- ✗ No User Marks.

### Setup and Hold Triggering

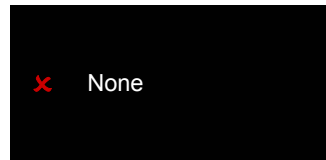
#### Tektronix MSO4000 Series

- ✓ Setup and hold triggering standard, across up to 20 data lines simultaneously.



#### LeCroy MS-500 with WaveSurfer Xs or WaveRunner Xi

- ✗ No setup and hold triggering.



### Setting Digital Thresholds

#### Tektronix MSO4000 Series

- ✓ Per-channel digital thresholds enable analysis of multiple logic families.



#### LeCroy MS-500 with WaveSurfer Xs or WaveRunner Xi

- ✗ Digital thresholds limited to one per 9- channel digital probe pod.
- ✗ Limited ability to analyze multiple logic families

