Tektronix TDS3000B Series

Tektronix DPO vs. Agilent Mega-Zoom

When Does "Mega" Equal 1 Million ?

The Narrow Conditions of Agilent's 1 Million Point Record Length

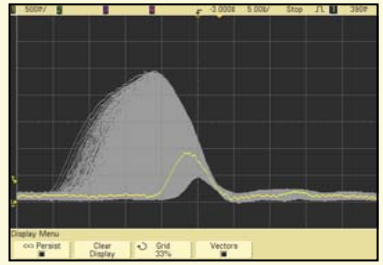
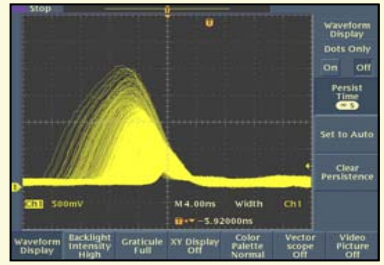
- When only one of channel 1 or 2 is turned on and / or only channel 3 or 4 is turned on (this is called "half-channel" mode)
- Logic channels are turned off
- Single shot mode
- Normal acquire mode, or Average set to 1
- Horizontal mode set to main

<u>ALL</u> of the above must be applied simultaneously

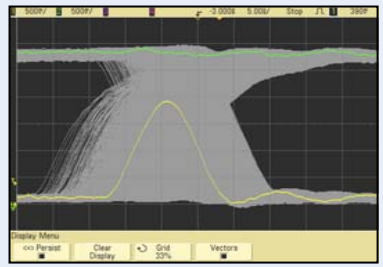
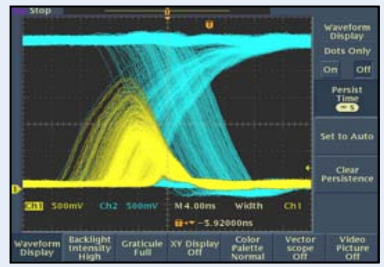
Why Mega-Zoom is NOT The Answer

- ✘ Does not always have 1 million points of record
- ✘ No direct control of record length
- ✘ No direct read-out of record length
- ✘ Mega-Zoom cannot reliably find random glitches
- ✘ Mega-Zoom is not DPO

Meta-Stable Pulse - Persistence Mode

✘ DSO6000A Mega-Zoom	✓ TDS3000B DPO
	
✘ No gray scale capability in persistence mode, running or stopped ✘ No variable persistence capability	✓ Gray-scale persistence capability, running or stopped ✓ Variable persistence capability

Meta-Stable Pulse - Two Active Channels

✘ DSO6000A	✓ TDS3000B
	
✘ No color differentiation between channels when stopped ✘ Cannot distinguish between the persisted areas contributed by each channel	✓ Each channel represented by different colors ✓ Intensity scaling preserved when stopped

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