TechTools

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DigiView™ Specifications

Additional DigiView Specs:

	DV1-100	DV3400
Power Source	USB	External
Idle power	<.5 Watt	2.5 Watt
Active Power	< 2.5W	< 7 Watt
Sample Rate	100 MHz(10ns)	200 Mhz(5ns) 400 MHz(2.5ns)
Channels	18	18 or 36
Sample Count	Varies with data due to real-time compression	Varies with data due to real-time compression
Samples @ 100 Mhz	**Min:** 128K (x18) @ 10ns = 1.3 ms **Max:** 2^{35} (34 Billion) @ 10ns = 5.7 minutes	N/A
Samples @ 200 Mhz	N/A	**Min:** 512K (x36) @ 5ns = 2.6 ms **Max:** 2^{52} (4.5 x 10^{15}) @ 5ns = 26 Days
Samples @ 400 Mhz	N/A	**Min:** 1M (x18) @ 2.5ns = 2.6 ms **Max:** 2^{53} (9 x 10^{15}) @ 2.5ns = 260 Days
Raw Memory	4.5 Mbit	18 Mbit
Trigger position	Auto or 50%	Selectable (0-100%)
Trigger Sequencers	0	Configurable: 1@16 stages OR 4@4 stages OR 2@8 stages OR 1@8 and 2@4 stages OR 1@12 and 1@4

NEW Logic Analyzer DV3400
• 18 / 36 Channels
• Up to 400 MHz

[Auto Memory Compression for Maximum Sampling](#)

DigiView

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Trigger Match Circuits	1 Pattern (18 bit AND: 1, 0, X) 1 Edge detect (18 bit OR: rising, falling, either)	stages 8 Universal: Each can be configured as: - Edge Detect (36 b OR: rising, falling, either) - Patterns (36 bit AND: 0, 1, X) - Stable (36 bit) - > (36 bit RANGE) - >= (36 bit RANGE - < (36 bit RANGE) - <= (36 bit RANGE - = (36 bit RANGE) - <> (36 bit RANGE
Match Duration	No	Yes - 1 per match circuit - up to 1M samples each
Trigger Pass Count	No	Yes (up to 1 Million per Sequencer stage
Trigger Output Sources	Edge detect OR Pattern detect OR (Edge detect AND Pattern detect)	Seq 1 OR Seq 2 OR Seq 3 OR Seq4 OR (8 input sum-of-input products of all 8 match circuits)
External Trigger Output	No	Yes, BNC connector
Threshold Circuits	1	2 (1 for for each group of 18 channels)
Threshold Range	fixed at 1.6V	Adjustable (-6V to +6V)
Threshold Accuracy	+- 100mv	+- 250mv
Maximum voltage (Continuous, all channels)	+10/-5V	+-50 Volts
Impedance	>100KOhm series, <10pf to ground (0-5V) >1KOhm series, <10pf to ground (<0, >5V)	50KOhms, < 3pf
Anti-static protection	Yes	Yes
Ground current Protection (ground lead to +- voltage)	No	Yes, +-12 Volts
Size (LxWxH)	4.1" x 2.6" x .9"	5.0" x 4.25" x 1.40"

Data Cable Specs:

	DV1-100	DV3400
Length	12"	12"
Wire	Hi-strand count (> 60), very flexible, color coded.	Hi-strand count (> 60), very flexible, color coded.
Connectorized	yes, both ends.	yes, both ends.
DigiView end	2x10, hi quality AMP.	(2) 2x10, hi quality AMP.
Data end	1x1, hi quality AMP. Side stackable on .1" centers. Fits .025 Sq posts and micro-clips.	1x1, True Square. In-line and Side stackable on .1" centers. Fits .025 Sq posts and micro-clips.
Field replaceable	YES	YES
MicroClips	20, suitable for grabbing SM as well as DIP pins.	40, suitable for grabbing SM as well as DIP pins.

Additional Software Specs:

Zoom	10ns/div to 50 Sec/div (IN, OUT and marquee)
Language	English
Split Waveform Views	yes
Waveform Views Zoom Independently	yes
Time Sync (Link) Waveform Views	yes - selectable
Waveform print	yes
Add comments to Waveform print	yes
Waveform Save as Image	yes - JPEG format
Add comments to Waveform image	yes
Waveform save/restore	yes
Project save/restore	yes (with waveforms)

Auto save/restore	yes
Search Function	yes
Forward and Reverse Searching	yes
Multi-Signal Pattern Search	yes
Search Pattern "Don't Care" support	yes, bit and nibble exclusions
Search Match Duration	yes
Search Animate	yes (Auto Repeat)
Selectable Search Marker	yes - A, B, C, D, X, Y
Define Multiple Searches	yes
Data Sequence Searches	yes, for specialized, decoded signals(i.e. SPI, RS-232, State Mode, etc.)
Signal order	drag-n-drop, independent to each view
Signal Buses	yes
Show Bus as Analog	yes, Special Analog Signal type
Expand/Collapse Bus Channels	yes, using icon by each waveform label or popup menu in Data Table views.
Swap order of Expanded Channels	yes, popup menu selectable
Signal labels	yes
Show inverted signals	yes
Select Signal Color	yes
Signal "Next Edge" scrolling	yes - previous, next
Signal "Next Edge" Animate	yes (Auto Repeat)
On-line Help	yes
Markers	Trigger, A, B, C, D, X, Y
Marker SNAP	Left, Right, NEAREST edge, Searches
Marker Snap Animate	yes (Auto Repeat) - X, Y, Searches
Marker TACK	yes - X and Y
Marker Drag & Drop	yes
Marker Drag & Snap	yes

Marker Drag & Snap	yes
Auto Scroll when Dragging Markers	yes
Time Measurements	Marker positions, Marker difference
Data Table Views	yes
Multi-Signal Tables	yes
Table Zoom	yes
Table "Transistion Compression"	yes
Table Data Format	Binary, HEX, Decimal - per signal
Table Time Sync (Linking)	yes - Selectable by Link Group or no link
Table Time by Delta	yes - Absolute, Delta selectable
Table Time Units	Auto, ns, us, ms, Sec.
List Views	yes, for specialized, decoded signals(i.e. I2C, SPI etc.)
Export Data	yes, ASCII CSV format - configurable
Export Compression	yes, Selectable
Export Range	yes, Custom or preset Time selectable
Export From List View	yes
Subwindows can "Tab" together	yes, drag & drop
Tabbed windows can merge	yes, drag & drop
Selectable Tab position	yes - Top, Left, Right, Bottom of Tabbed Window
Subwindows can "Dock" to main window	yes - Top, Left, Right, Bottom of WaveForm Views
Tabbed windows can "Dock" to main window	yes - Top, Left, Right, Bottom of WaveForm Views

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