LeCroy USB Analyzers Comparison Chart

FEATURES	USBTracer/Trainer Hi-Speed System	USB Tracer Hi-Speed System	USBMobile HI Speed	USBTracer/Trainer Classic	USB Tracer Classic	Advisor	Chief Plus	Chief
Specifications Supported								
USB OTG Supplement	Yes	Yes	Yes	Yes	Yes	No	No	No
USB 2.0	Yes	Yes	Yes	Yes[1]	Yes[1]	Yes	Yes[1]	Yes
USB 1.1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recording Speed Capabilities								
High Speed (480 Mb/s)	Yes	Yes	Yes	No	No	Yes	Yes	No
Full Speed (12 Mb/s)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Low Speed (1.5 Mb/s)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Traffic Generation								
Traffic Generation	Yes	No	No	Yes	No	No	Yes	No
Slow clock by 25%/50%/75%	Yes[9]	n/a	n/a	Yes[9]	n/a	n/a	no	n/a
User definable slow clock factor	Yes[9]	n/a	n/a	Yes[9]	n/a	n/a	no	n/a
Recorded Traffic Playback	Yes	No	No	Yes	No	No	Yes	No
User definable error generation	Yes	No	No	Yes	No	No	Yes	No
Create Playback File	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Reserve Memory for Traffic Generation	Yes	n/a	n/a	Yes	n/a	n/a	Yes	n/a
Record Self-Generated Traffic	Yes	N/A	n/a	Yes	N/A	N/A	Yes	N/A
Record								
Real Time Capture Filtering	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
High Speed Packets	Yes	Yes	Yes	No	No	Yes	No	No
Full Speed Packets	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Low Speed Packets	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Bus Conditions	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OTG:VBUS	Yes	Yes	Yes	Yes	Yes	no	no	no
OTG: HNP	Yes	Yes	Yes	Yes	Yes	no	no	no
OTG: SRP	Yes	Yes	Yes	Yes	Yes	no	no	no
Bus Traffic Snapshot	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Save External Signals	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Truncate Data	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Adjustable Buffer Size	0.2MB to 512MB	0.4MB to 512MB	0.2MB to 64 MB	0.2MB to 512MB	0.4MB to 512MB	0.1MB to 128MB	0.1MB to 128MB	0.1MB to 128MB
Save Recording Options Setup	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Trigger								
Manual	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
On Errors	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
External In	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
Event	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Mask Data Pattern	Yes	Yes	Yes	Yes	Yes	Yes	8 bytes for SETUP and DATA	8 bytes for SETUP and DATA
Bit-wise	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Adjustable Trigger Position	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Event Sequencing	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Graphical Multi level Event Sequencing	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Event Counting	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Audiable Trigger Alert	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
External Out	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
Filter								
Transactions	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Tokens	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Splits	Yes	Yes	Yes	Yes	Yes	Yes	No	No
All SOF's	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Individual SOF	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Traffic View								
Multiple Views of Traffic	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Event based view	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Frame Based View	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Time Based View	Yes	Yes	Yes	Yes	Yes	Yes	No	No
Device based view	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Intuitive User Interface	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Global View of All Traffic Items	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

FEATURES	USBTracer/Trainer Hi-Speed System	USB Tracer Hi-Speed System	USBMobile HI Speed	USBTracer/Trainer Classic	USB Tracer Classic	Advisor	Chief Plus	Chief
Display Filters Preserved on View Change	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Transaction View (Expanded/ Collapsed)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Transfer View (Expanded/ Collapsed)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Display								
Time Stamping	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Heirarchical Traffic Display	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Delta Time	Yes	Yes	Yes	Yes	Yes	Yes	No	No
Idle Time	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
View Transactions	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
View Transfers	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Packet Hiding	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Field Hiding	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
User Data	2 External Signals	Yes	Yes	2 External Signals	Yes	2 External Signals	5 External Signals	5 External Signals
Data Display Formats	ASCII/ Decimal/ Hex/ Binary/ User Bitmap/ User Decode	ASCII/ Decimal/ Hex/ Binary/ User Bitmap/ User Decode	ASCII/ Decimal/ Hex/ Binary/ User Bitmap/ User Decode	ASCII/ Decimal/ Hex/ Binary/ User Bitmap/ User Decode	ASCII/ Decimal/ Hex/ Binary/ User Bitmap/ User Decode	ASCII/ Decimal/ Hex/ Binary/ User Bitmap/ User Decode	ASCII/ Decimal/ Hex/ Binary/ User Bitmap/ User Decode	ASCII/ Decimal/ Hex/ Binary/ User Bitmap/ User Decode
Error Alerts	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
User Defined Descriptor Decoding	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
User Defined Endpoint Decoding	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Device Class Decoding	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Curtail Long DATA	Yes	Yes	Yes	Yes	Yes	Yes [6]	Yes [6]	Yes [6]
Selectable Field Formats	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Selectable Field Colors	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Graphical Display	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Save Display Options Setup	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Tool Tips	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Error cause tips	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
View Bit Stream	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Stand Alone Viewer	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Save Function	Full or Partial Trace	Full or Partial Trace	Full or Partial Trace	Full or Partial Trace	Full or Partial Trace	Full or Partial Trace	Full or Partial Trace	Full or Partial Trace
Print Function	Full or Partial Trace	Full or Partial Trace	Full or Partial Trace	Full or Partial Trace	Full or Partial Trace	Full or Partial Trace	Full or Partial Trace	Full or Partial Trace
Timing Measurements	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Bus Utilization Calculator	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Packet Error Summary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Transaction Error Summary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Traffic/ Transaction Summary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Export Traffic/DATA to Text	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Pop-Up Menus	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Hide User Defined	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Hide Fields	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Hide Packets	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Hide SOF	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Hide NAK'ed Transactions	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Zoom Display	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Keyboard Shortcuts	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
File Information	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Packetised ASCII	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Help Menu	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Search								
User Data	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Device Request	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Data Pattern	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Error	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Data Length	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Frame	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Address and Endpoint	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Bus Conditions	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

FEATURES	USBTracer/Trainer Hi-Speed System	USB Tracer Hi-Speed System	USBMobile HI Speed	USBTracer/Trainer Classic	USB Tracer Classic	Advisor	Chief Plus	Chief
PID	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Trigger	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Marker	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Packet #	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Physical Components								
Primary Recording Channel	OTG/ 480Mbps/ 12Mbps/ 1.5Mbps	OTG/ 480Mbps/ 12Mbps/ 1.5Mbps	OTG/ 480Mbps/ 12Mbps/ 1.5Mbps	OTG/ 12Mbps/ 1.5Mbps	OTG/ 12Mbps/ 1.5Mbps	480Mbps/ 12Mbps/ 1.5Mbps	12Mbps/ 1.5Mbps	12Mbps/ 1.5Mbps
Secondary Recording Channel	OTG/ 480Mbps/ 12Mbps/ 1.5Mbps	OTG/ 480Mbps/ 12Mbps/ 1.5Mbps	n/a	OTG/ 12Mbps/ 1.5Mbps	OTG/ 12Mbps/ 1.5Mbps	12Mbps/ 1.5Mbps	12Mbps/ 1.5Mbps	12Mbps/ 1.5Mbps
Device Detach Switch	No	No	No	No	No	Yes	Yes	Yes
External Clock Input	No	No	No	No	No	Yes	Yes	Yes
Access to Device Current	Option[7]	Option[7]	No	Option[7]	Option[7]	Option[7]	Yes	Yes
Access to D+ / D- Signals	Option[7]	Option[7]	No	Option[7]	Option[7]	Option[7]	Yes	Yes
Breakout Board	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
Connection to Test Setup	USB 2.0 (Hi-Speed)	USB 2.0 (Hi-Speed)	PMCIA	USB 2.0 (Hi-Speed)	USB 2.0 (Hi-Speed)	USB	USB	USB
Memory Size	512MB	512MB	64MB	512MB	512MB	128MB	128MB	128MB
Bus Connection	High Impedance, Non Intrusive	High Impedance, Non Intrusive	High Impedance, Non Intrusive	High Impedance, Non Intrusive	High Impedance, Non Intrusive	High Impedance, Non Intrusive	High Impedance, Non Intrusive	High Impedance, Non Intrusive
Inrush Current measurement	Option[7]	Option[7]	Option7	Option[7]	Option[7]	Option[7]	Option	Option
Startup Current measurement	Option[7]	Option[7]	Option7	Option[7]	Option[7]	Option[7]	Option	Option
Active Current measurement	Option[7]	Option[7]	Option7	Option[7]	Option[7]	Option[7]	Option	Option
Suspend Current measurement	Option[7]	Option[7]	Option7	Option[7]	Option[7]	Option[7]	Option	Option
Voltage Drop Measurement	Option[7]	Option[7]	Option7	Option[7]	Option[7]	Option[7]	Option	Option
Voltage Droop measurement	Option[7]	Option[7]	Option7	Option[7]	Option[7]	Option[7]	Option	Option
EYE' measurement support	Option[8]	No	No	Option[8]	No	No	Option	No
Logic Analyzer Connection	Through Breakout Board	Through Breakout Board	n/a	Through Breakout Board	Through Breakout Board	Through Breakout Board	Through Breakout Board	Through Breakout Board
General								
Compatibility	Classic, Advisor, Chief, Detective & Inspector Trace Files	Classic, Advisor, Chief, Detective & Inspector Trace Files	USBTracer/ Trainer, Advisor, Chief, Detective & Inspector Trace Files	Advisor, Chief, Detective & Inspector Trace Files	Advisor, Chief, Detective & Inspector Trace Files	Chief, Detective & Inspector Trace Files	Detective & Inspector Trace Files	Detective & Inspector Trace Files
Hardware Field Upgradable	Yes	Yes	No	Yes	Yes	No	No	Yes
Software Upgrades	Via website	Via website	Via website	Via website	Via website	Via website	Via website	Via website
Modules for Other buses Available	Yes	Yes	No	Yes	Yes	No	No	No
Operating Systems	Win98SE Win2000 WinME WinXP	Win98SE Win2000 WinME WinXP	Win98SE Win2000 WinME WinXP	Win98SE Win2000 WinME WinXP	Win98SE Win2000 WinME WinXP	Win98SE Win2000 WinNT WinME WinXP	Win95 (OSR 2.1) Win98 Win2000 WinNT	Win95 (OSR 2.1) Win98 Win2000 WinNT
Customer Support	Hotline 800 Number	Hotline 800 Number	Hotline 800 Number	Hotline 800 Number	Hotline 800 Number	Hotline 800 Number	Hotline 800 Number	Hotline 800 Number
Warranty	3 Years	3 Years	3 Years	3 Years	3 Years	3 Years	3 Years	3 Years

1. Supports the 2.0 specification but is restricted to recording classic speeds recording
2. Stand alone traffic generator is available separately for use with the Detective or Inspector.
3. Connection speed must be specified in Recording Options for a low-speed branch with the Detective or Inspector.

4. User data captured with the Inspector is not retained when converted to the Chief viewer format.
5. All error alerts are available when using the USB Trace viewer for Detective or Inspector files. Only Bus Condition error alerts are
6. Individual DATA fields or all DATA fields can be curtailed with the Chief, Chief Plus or Advisor.
7. Parametric Probe Option
8. Parametric probe and test pattern generation combination
9. May require Hi-Speed Slow clock option