

WaveJet Touch Oscilloscopes 350 MHz / 500 MHz



Key Features

- 350 MHz and 500 MHz bandwidths
- Up to 2 GS/s sample rate
- Long Memory up to 5 Mpts
- 7.5" touch screen display
- 26 measurement parameters
- Replay mode
- Standard Pass/Fail Mask and Measurement testing
- Standard I²C, SPI, and UART serial triggers
- Standard USB Host, USB Device, GPIB, and LAN connectivity
- Multi-language user-interface and help
- Ultra-quick boot time

The WaveJet Touch provides the performance, features, and touch screen user interface to simplify operation and shorten debug time. The compact design features a 7.5" touch screen, providing the convenience of touch operation in a portable design. With up to 5 Mpts of memory and 2 GS/s, every detail of the waveform can be captured and easily measured. The all-inclusive WaveJet Touch delivers maximum value for minimum investment.

Touch Screen Control

Touch screen operation simplifies how all aspects of the oscilloscope are controlled, increasing productivity and decreasing setup time. Intuitively touch controls instead of navigating confusing soft keys.

Shorten Debug Time

Intricate signals can be quickly acquired by combining a long capture time with a variety of complex triggers, including triggers for I²C, SPI, and UART. Pass/fail mask and measurement testing enables deeper analysis and performs characterization and validation testing with ease. Scroll back in time to view previous waveforms and isolate anomalies using Replay mode.

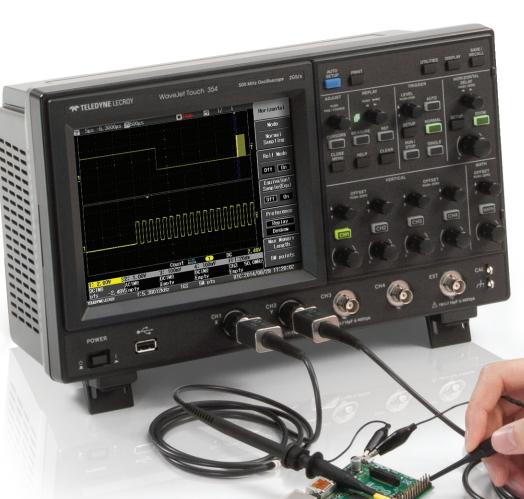
Portable Performance

The small form factor and light-weight design make it easy to carry and use anywhere. Coupled with an ultra-quick boot time, the WaveJet Touch is ready to use when needed. The WaveJet Touch is on and acquiring signals in less than 5 seconds, enabling measurements to begin immediately.

Flexible Connectivity

Easily document results by saving screenshots directly to a memory stick or printer. Standard GPIB, LAN, and USB connections enable easy remote control. Using Teledyne LeCroy's WaveStudio the WaveJet Touch can quickly connect to a PC.

ADVANCED TOOLS FOR WAVEFORM ANALYSIS



Long Capture Time

Long memory is critical for maintaining high sample rate during long data captures. The standard 5 Mpts of memory eliminates the tradeoff between long capture and high sample rate. The long memory makes the WaveJet Touch a great tool for viewing signals that have low frequency and high frequency components. The built-in zoom function provides an easy way to get a close look at all of the signal details.

Advanced Triggering

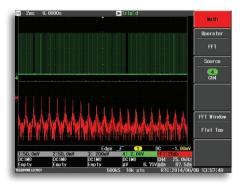
Equipped with a variety of complex triggers, the WaveJet Touch can easily capture intricate signals. Standard I²C, SPI, and UART triggers allow for comprehensive protocol debug. A pattern logic trigger can trigger the oscilloscope depending upon the state of the four channel inputs.

Digital Filtering

Digital filtering is available on each channel. The Low-Pass, High-Pass, and Simple Moving Average filters allow the oscilloscope to isolate only the desired frequencies. By implementing the filter directly on each channel the math trace is still available for additional analysis.

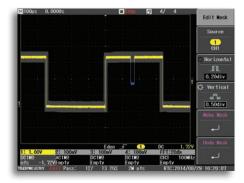
Multiple Acquisition Modes

In addition to normal sampling, the high resolution, peak detect, and average acquisition modes make it easy to capture a wide range of signal types. An Equivalent time sampling rate of 100 GS/s allows for reconstruction of repetitive signal with extreme precision.



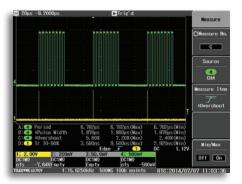
Waveform Math and Analysis

Math operators include basic arithmetic functions and advanced FFT, derivative, and integral functions. Advanced math can be performed on the results of basic math functions. The scaling and offset of the math trace can easily be adjusted with its own dedicated knobs.



Pass/Fail Testing

Waveforms can be tested against a mask or measurement parameters can be assigned pass/fail criteria for validation testing. On a pass/fail condition the oscilloscope can be configured to: stop the acquisition, beep, save the waveform, take a screen capture or output a pulse to another instrument.

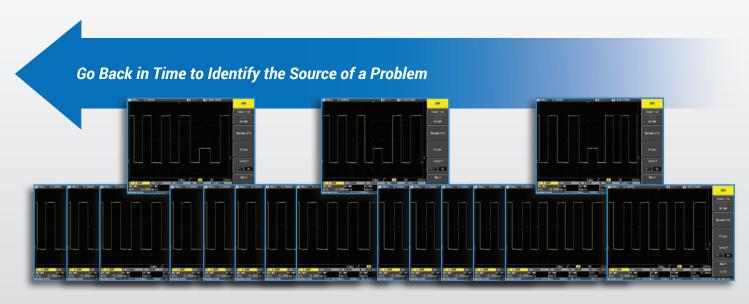


Automatic Measurements

Measure waveforms with up to 26 different automatic parameters and min/max statistics. Display up to four measurements simultaneously. All instance measurements allow the oscilloscope to measure all occurrences of a parameter in a single acquisition.

Replay Mode Waveform Playback

Scroll back in time using Replay mode to view previous waveforms and isolate anomalies. Use cursors and measurement parameters to quickly find the source of problems. Replay mode is always active so there is no need to worry about turning it on.



WAVEJET TOUCH

The WaveJet Touch delivers the performance, features, and touch screen user interface to simplify operation and shorten debug time.

- 1. 7.5" Touch Screen Directly touch the display for a simplified user experience.
- Ultra-quick Boot Time The WaveJet Touch is on and ready to acquire waveforms in less than 5 seconds.
- Connectivity Documenting results is easy using the front-mounted USB port. Simply press the Print button on the front panel to quickly save screen images.
- Portability The small footprint and light weight of the WaveJet Touch means it is easy to carry and use anywhere, even when bench space is limited.
- Local Language User Interface and Help – Select from 7 different language preferences.
- Auto Setup Quickly configure vertical, horizontal, and trigger settings with a push of a button.



2GS/s	AUTO PRINT DUJUST REPLAY PUBH PUBH PU
Cł TS 50Ω ≤ 5Vrms	

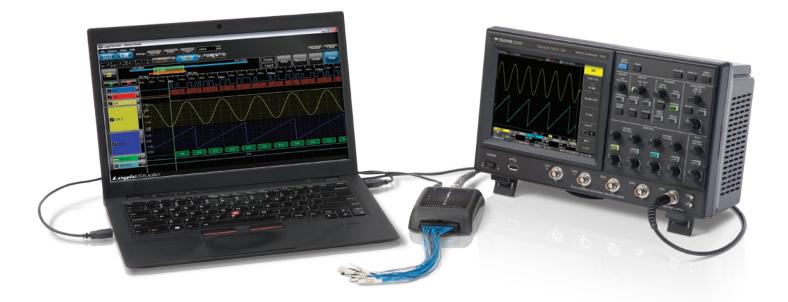
- Replay Control Rotate to see a history of captured waveforms.
- **8. Independent Vertical Controls** Quickly change the vertical scale of any channel.
- Push Knobs Push the Offset knobs to automatically zero the channel offset or push the Delay knob to center the trigger point on the screen.
- **10. GPIB and LAN Ports** Standard connectivity for easy remote control and data transfer.
- USB Host Port Can be configured to print a hardcopy or an interface for remote control.
- **12.** Auxiliary Output Send a trigger out or pass/fail pulse to another instrument.



ACCESSORIES

LogicStudio

The WaveJet Touch can be paired with Teledyne LeCroy's LogicStudio 16 to turn your PC into a mixed signal oscilloscope with tools for capturing, viewing, and measuring analog, digital, and serial signals in one place. LogicStudio offers 16 channels, 100 MHz, and up to 1 GS/s logic analysis with I²C, SPI, and UART triggering and decoding which can all be displayed alongside the analog waveforms captured on WaveJet Touch. When only digital debug is needed disconnect the WaveJet Touch and use LogicStudio as a standalone logic analyzer.



Soft Carrying Case

The small form factor of the WaveJet Touch lends itself to being conveniently transported. The WJT-SOFTCASE provides an easy way to carry the oscilloscope and all of its accessories. It is equipped with a custom foam insert to ensure the oscilloscope is secure and protected during transport.

Rack Mount Kit

The WaveJet Touch can easily be integrated into a test rack using the WJT-RACK accessory. The sturdy rack mount is simple to assemble and converts the oscilloscope to a 6U rack-mounted package. With standard pass/fail mask and measure testing, the WaveJet Touch is a natural fit for production line testing.





SPECIFICATIONS

WaveJet Touch 334

WaveJet Touch 354

	WaveJet Touch 334	waveJet Touch 354	
Vertical			
Bandwidth (@50 Ω)	350 MHz	500 MHz	
Rise Time	1 ns (typical)	750 ps (typical)	
Input Channels	4		
Vertical Resolution	8-bits		
Sensitivity	50 Ω : 2 mV/div – 2 V/div; 1M Ω : 2 mV/div – 10 V/div		
DC Gain Accuracy	±(1.5% of + 0.5% of Full Scale)		
Bandwidth Limiting Filter	200 kHz, 2 MHz, 20 MHz, 100 MHz		
Maximum Input Voltage	50 Ω: 5 Vrms; 1M Ω: 400 Vpk CAT I		
Input Coupling	50 Ω : DC, GND; 1M Ω : AC, DC, GND		
Input Impedance	50 Ω: ±1.0 %; 1M Ω: ±1.0% 16 pF (typical)		
Offset Range	2 mV/div - 50 mV/div: ±1 V, 50.2 mV/div - 500 mV/div		
Offset Accuracy	2 mV/div - 50 mV/div: ±(0.5% of offset value + 0.5% FS + 1 mV) 50.2 mV/div - 500 mV/div: ±(0.5% of offset value + 0.5% FS + 10 mV) 502 mV/div - 10 V/div: ±(0.5% of offset value + 0.5% FS + 100 mV)		
Acquisition			
Sampling Rate (Single Shot)	2 GS/s (interleaved), 1 GS/s (all channels)		
Sampling Rate (Equivalent Time)	100 GS/s		
Record Length	5 Mpts/Ch (interleaved), 2.5 Mpts/Ch (all channels)		
Acquisition Modes	Real Time, Peak Detect, Average, High Resolution		
Real Time Timebase Range	1 ns/div - 50 s/div	500 ps/div - 50 s/div	
Roll Mode Timebase Range	50 ms/div - 50 s/div		
Peak Detect Period	1 ns		
Timebase Accuracy	10 ppm (typical)		
Probes			
Standard Probes	10:1 Passive Probe (one per channel)		
Probing System	BNC with Probe Sense Ring		
Trigger System			
Modes	Auto, Normal, Single, Stop		
Sources	Any input channel, External, Ext/10, or line		
Coupling	DC, AC, HFREJ, LFREJ, Noise Reject		
Trigger Types	Edge, Edge ALT, Edge OR, Pulse Width, Period, Pulse C	Count Dropout TV Logic 12C SPL LIAPT	
l²C		R+DATA, Data Length, or Missing ACK. 7 or 10-bit ADD	
	are supported with full Read, Write, or R/W = "Don't Cout of range, and don't care (EEPROM mode only). DA	are". DATA conditions support <=, <, =, >, >=, <>, in rang TA can be setup in Hexadecimal (1-5 bytes supported) ast-Mode Plus, and High speed mode. Bit rate is auto-	
SPI	Trigger on DATA. DATA can be setup in Binary (any co supported and are auto-detected. Trigger on any anal		
UART / RS-232	Trigger on START, STOP, DATA, or Parity ERROR. DATA Binary (any combination of 0, 1, or X for 5-8 bits). All t Trigger on any analog channel, EXT, or EXT/10.	A can be setup in Hexadecimal (1 byte supported) or	
Measure, Zoom, Math and R	eplay Mode		
Measure		90-10%), Fall Time (80-20%), Frequency, Integral, Maxi-	
incubure .	mum, Mean, Minimum, Number of +Pulses, Number of		
Zoom	Use front panel QuickZoom button to zoom all wavefor	orms in a separate zoom grid	
Math	Sum, Difference, Product, Integral, Derivative, FFT (up Flat Top windows)	to 8 kpts with Rectangular, Von Hann, or	
Replay Mode	Look back at the history of waveform acquisitions (m	aximum 2,048 acquisitions)	
Display System			
Display Size	7.5" TFT-LCD Touch-Screen		
Display Resolution	640 x 480 VGA		

SPECIFICATIONS & ORDERING INFORMATION

Specifications (cont'd)

	WaveJet Touch 334	WaveJet Touch 354
Input/Output Interfaces		
Aux Out	Trigger output or pass/fail output	
USB	USB host port for flash drives, USB device port for connecting to PC and direct printer connection	
LAN	10/100Base-T Ethernet interface (RJ-45 connector)	
GPIB	Supports IEE-488.2	
Physical		
Dimensions (HWD)	7.5"H x 13"W x 4.9"D (190 mm x 330 mm x 124 mm)	
Weight	3.7 kg (8.16 lbs)	
Environment		
Temperature	Operating: 0 °C to 40 °C; Non-Operating: -20 °C to 60 °C	
Humidity	Maximum 80% relative humidity (non-condensing) up to ≤ (non-condensing) at 40 °C	: 30 °C, Upper limit derates to 55% relative humidity
Altitude	Operating: 3,000 m (9,843 ft) max at ≤ 25C; Non-Operating	g: Up to 12,192 meters (40,000 ft)
Power Requirements		
Voltage	100 - 240 V (± 10%) at 50 / 60 Hz (± 5%), 100 - 120 V (:	± 10%) at 400 Hz (± 5%)
Power Consumption (Max)	50 W	
Regulatory		
CE Certification	Low Voltage Directive 2006/95/EC; EN 61010-1:2010, EN	61010-2-030:2010
	EMC Directive 2004/108/EC; EN 61326-1:2013, EN61326-	
UL and cUL Listing	UL 61010-1, UL 61010-2-030:2010, 3rd Edition; CAN/CSA	C22.2 No. 61010-1-12

Ordering Information

Product Description WaveJet Touch Oscilloscopes	Product Code			
350 MHz, 1 GS/s, 4 Ch, 2.5 Mpts/Ch with 7.5" Touch screen Display; 2 GS/s, 5 Mpts Interleaved	WaveJet 334T			
500 MHz, 1 GS/s, 4 Ch, 2.5 Mpts/Ch with 7.5" Touch screen Display; 2 GS/s, 5 Mpts Interleaved	WaveJet 354T			
Included with Standard Configurations				
Protective Front Cover				
One Passive Probe per Channel				

One Passive Probe per Channel
Getting Started Guide
Multi-language User Interface and Context Sensitive Help
(English, Chinese, French, German, Italian, Japanese, and Russian)
GPIB, LAN, USB (one host and one device) Ports
Power Cable for the Destination Country
Calibration and Performance Certificate
3-year Warranty

Product Description General Accessories	Product Code
Soft Carrying Case	WJT-SOFTCASE
Rack Mount Accessory	WJT-RACK
16 Channel, 1 GS/s, 100 MHz USB Logic Analyzer	LogicStudio 16
Probes	
10:1 500 MHz 10 Ω Passive Probe	PP006A
700 V, 15 MHz High-Voltage Differential Probe	AP031
10:1/100:1 200/300 MHz, 50 MΩ High-voltage Probe 600 V/1,2 kV Max. Volt. DC	PPE1.2KV
100:1 400 MHz 50 M Ω 2 kV High-voltage Probe	PPE2KV
100:1 400 MHz 50 M Ω 4 kV High-voltage Probe	PPE4KV
1000:1 400 MHz 50 M Ω 5 kV High-voltage Probe	PPE5KV
1000:1 400 MHz 50 M Ω 6 kV High-voltage Probe	PPE6KV

Customer Service

Teledyne LeCroy oscilloscopes and probes are designed, built, and tested to ensure high reliability. In the unlikely event you experience

difficulties, our digital oscilloscopes are fully warranted for three years and our probes are warranted for one year. This warranty includes:

- No charge for return shipping
- Long-term 7-year support
- Upgrade to latest software at no charge



1-800-5-LeCroy teledynelecroy.com

Local sales offices are located throughout the world. Visit our website to find the most convenient location.

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 DSO5102P
 DSO5202B
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 MSO5062D
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 PK007-003
 PK007-019
 PK007-022
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