SPECIFICATIONS

Vertical System	WavePro 715Zi	WavePro 725Zi (SDA)	WavePro 735Zi (SDA, DDA)	WavePro 740Zi (SDA)	WavePro 760Zi (SDA, DDA)
Analog (ProLink Input) Bandwidth @ 50 Ω (-3 dB) (≥ 10 mV/div)	Not Applicable	Not Applicable	Not Applicable	4 GHz (≥ 10 mV/div)	6 GHz (≥ 10 mV/div)
Analog (ProBus Input) Bandwidth @ 50 Ω (-3 dB)	1.5 GHz (≥ 10 mV/div)	2.5 GHz (≥ 10 mV/div)	3.5 GHz (≥ 10 mV/div)	3.5 GHz (≥ 10 mV/div)	3.5 GHz (≥ 10 mV/div)
Analog (ProBus Input) Bandwidth @ 1 MΩ (-3 dB)	500 MHz (Typical)	500 MHz (Typical)	500 MHz (Typical)	500 MHz (Typical)	500 MHz (Typical)
Rise Time (10–90%, Flatness 50 Ω)	235 ps	150 ps	120 ps	105 ps	70 ps
Rise Time (Typical, 20–80%, Flatness 50 Ω)	176 ps	113 ps	90 ps	79 ps	53 ps
Input Channels	4				
Bandwidth Limiters	20 MHz, 200 MHz, 1 GHz		20 MHz, 200 MHz 1 GHz, 3 GHz	20 MHz, 200 MHz 1 GHz, 3 GHz	20 MHz, 200 MHz 1 GHz, 3 GHz, 4 GHz
Input Impedance	50 Ω ±2% or 1 MΩ ‖ 16 pF, 10 MΩ ‖ 11 pF with supplied probe				
Input Coupling	1 MΩ: AC, DC, GND; 50 Ω: DC, GND				
Maximum Input Voltage	50 Ω: ±5 V_{rms} 1 MΩ: 250 V max. (peak AC: ≤ 10 kHz + DC)			50 Ω (ProBus): ±5 V_{rms} 50 Ω (ProLink): ±4 V_{peak} 1 MΩ (ProBus): 250 V max. (peak AC: ≤ 10 kHz + DC)	
Channel-Channel Isolation ProLink Input	Not Applicable			> 200:1 up to 2 GHz, > 50:1 from 2 GHz to 4 GHz	200:1 up to 2 GHz, > 50:1 from 2 GHz to 4 GHz, > 20:1 from 4 GHz to 6 GHz
Channel-Channel Isolation ProBus Input	100:1	> 100:1 up to 2.5 GHz, > 30:1 from 2.5 GHz to 3.5 GHz			
Vertical Resolution	8 bits; up to 11 bits with enhanced resolution (ERES)				
Sensitivity	50 Ω: 2 mV–1 V/div, fully variable (2–9.99 mV/div via zoom); 1 MΩ: 1 mV–10 V/div, fully variable				
DC Gain Accuracy	±1.5% of full scale				
Offset Range	**50 Ω (ProBus Input):** ±750 mV @ 10–170 mV/div ±4 V @ 172 mV/div–1 V/div **1 MΩ: (ProBus Input):** ±1 V @ 2–128 mV/div ±10 V @ 130 mV–1.28 V/div ±100 V @ 1.3 V–10 V/div			**50 Ω (ProLink Input):** ±750 mV @ 10–118 mV/div ±4 V @ 120 mV/div–1 V/div **50 Ω (ProBus Input):** ±750 mV @ 10–170 mV/div ±4 V @ 172 mV/div–1 V/div **1 MΩ: (ProBus Input):** ±1 V @ 2–128 mV/div ±10 V @ 130 mV–1.28 V/div ±100 V @ 1.3 V–10 V/div	
Offset Accuracy	±(1.5% of full scale +1.0% of offset value +1 mV)				

Horizontal System

Timebases	Internal timebase common to 4 input channels; an external clock may be applied at the auxiliary input				
Time/Division Range	Real time: 20 ps/div–1000 s/div (RIS mode: 20 ps/div–10 ns/div; Roll mode: up to 1000 s/div)				
Clock Accuracy	≤ 1 ppm + (aging of 0.5 ppm/yr from last calibration)				
Time Interval Accuracy	< 0.06 / SR + (clock accuracy* Reading) (rms)				
Jitter Noise Floor	1.5 ps (Typical)	1 ps (Typical)	800 fs (Typical)	750 fs (Typical)	560 fs (Typical)
Trigger and Interpolator Jitter	2.5 ps rms (Typical) < 0.1 ps rms (Typical, software assisted)			2 ps rms (Typical) < 0.1 ps rms (Typical, software assisted)	
Channel-Channel Deskew Range	±9 x time/div. setting, 100 ms max., each channel				
External Timebase Reference (Input)	10 MHz; 50 Ω impedance, applied at the rear input				
External Timebase Reference (Output)	10 MHz; 50 Ω impedance, applied at the rear output				

Acquisition System	WP715Zi	WP725Zi (SDA)	WP735Zi (SDA, DDA)	WP740Zi (SDA)	WP760Zi (SDA, DDA)
Single-Shot Sample Rate/Ch	20 GS/s on 2 Ch 10 GS/s on 4 Ch (Option WPZi-1.5GHZ-4X20GS doubles the sample rate)	40 GS/s on 2 Ch 20 GS/s on 4 Ch			
Random Interleaved Sampling (RIS)	200 GS/s for repetitive signals (20 ps /div. to 10 ns/div)				
Maximum Trigger Rate	1,000,000 waveforms/second (in Sequence Mode, up to 4 channels)				
Intersegment Time	1 µs				
Max. Acquisition Memory Points/Ch	(4 Ch / 2 Ch)				Number of Segments
Standard Memory	10 M / 20 M (Standard memory for SDA and DDA scopes are 20 M / 40 M)				5000
S-32 – Memory Option	32 M / 64 M				15,000
M-64 – Memory Option	64 M / 128 M				15,000
L-128 – Memory Option	128 M / 256 M				15,000

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Acquistion Processing	WavePro 715Zi	WavePro 725Zi (SDA)	WavePro 735Zi (SDA, DDA)	WavePro 740Zi (SDA)	WavePro 760Zi (SDA, DDA)
Averaging	Summed averaging to 1 million sweeps; continuous averaging to 1 million sweeps				
Enhanced Resolution (ERES)	From 8.5 to 11 bits vertical resolution				
Envelope (Extrema)	Envelope, floor, or roof for up to 1 million sweeps				
Interpolation	Linear or Sin x/x				

Triggering System

Modes	Normal, Auto, Single, and Stop				
Sources	Any input channel, Aux, Aux/10, or line; slope and level unique to each source (except line trigger)				
Coupling Mode	DC, AC, HFRej, LFRej				
Pre-trigger Delay	0–100% of memory size (adjustable in 1% increments of 100 ns)				
Post-trigger Delay	0–10,000 divisions in real time mode, limited at slower time/div settings or in roll mode				
Hold-off by Time or Events	From 2 ns up to 20 s or from 1 to 99,999,999 events				
Internal Trigger Range	±4.1 div from center				
Trigger Sensitivity with Edge Trigger (Ch 1–4) ProBus Inputs	2 div @ < 1.5 GHz 1.5 div @ < 750 MHz 1.0 div @ < 200 MHz (for DC, AC, LFRej coupling, ≥ 10 mV/div, 50 Ω)	2 div @ < 2.5 GHz 1.5 div @ < 1.25 GHz 1.0 div @ < 200 MHz (for DC, AC, LFRej coupling, ≥ 10 mV/div, 50 Ω)	2 div @ < 3.5 GHz 1.5 div @ < 1.75 GHz 1.0 div @ < 200 MHz (for DC, AC, LFRej coupling, ≥ 10 mV/div, 50 Ω)		
Trigger Sensitivity with Edge Trigger (Ch 1–4) ProLink Inputs	Not Applicable			2 div @ < 4 GHz 1.5 div @ < 2 GHz 1.0 div @ < 200 MHz (for DC, AC, LFRej coupling, ≥ 10 mV/div, 50 Ω)	2 div @ < 6 GHz 1.5 div @ < 3 GHz 1.0 div @ < 200 MHz (for DC, AC, LFRej coupling, ≥ 10 mV/div, 50 Ω)
External Trigger Sensitivity, (Edge Trigger)	2 div @ < 1 GHz 1.5 div @ < 500 MHz 1.0 div @ < 200 MHz (for DC, AC, LFRej coupling)				
Max. Trigger Frequency, SMART Trigger™	1.5 GHz @ ≥ 10 mV/div (minimum triggerable width 500 ps)	2.0 GHz @ ≥ 10 mV/div (minimum triggerable width 300 ps)	2.0 GHz @ ≥ 10 mV/div (minimum triggerable width 250 ps)	2.0 GHz @ ≥ 10 mV/div (minimum triggerable width 200 ps)	
External Trigger Input Range	Aux (±0.4 V); Aux/10 (±4 V)				

Basic Triggers

Edge	Triggers when signal meets slope (positive, negative, or either) and level condition.
TV-Composite Video	Triggers NTSC or PAL with selectable line and field; HDTV (720p, 1080i, 1080p) with selectable frame rate (50 or 60 Hz) and Line; or CUSTOM with selectable Fields (1–8), Lines (up to 2000), Frame Rates (25, 30, 50, or 60 Hz), Interlacing (1:1, 2:1, 4:1, 8:1), or Synch Pulse Slope (Positive or Negative)
Window	Trigger when signal or exits a window defined by adjustable thresholds

SMART Triggers

State or Edge Qualified	Triggers on any input source only if a defined state or edge occurred on another input source Delay between sources is selectable by time or events
Qualified First	In Sequence acquisition mode, triggers repeatedly on event B only if a defined pattern, state, or edge (event A) is satisfied in the first segment of the acquisition. Delay between sources is selectable by time or events
Dropout	Triggers if signal drops out for longer than selected time between 1 ns and 20 s
Pattern	Logic combination (AND, NAND, OR, NOR) of 5 inputs (4 channels and external trigger input). Each source can be high, low, or don't care. The High and Low level can be selected independently. Triggers at start or end of the pattern

SMART Triggers with Exclusion Technology

Glitch	Triggers on positive or negative glitches with widths selectable as low as 500 ps (depending on oscilloscope bandwidth) to 20 s, or on intermittent faults.
Width (Signal or Pattern)	Triggers on positive, negative or both widths with widths selectable as low as 200 ps (depending on oscilloscope bandwidth) to 20 s, or on intermittent faults
Interval (Signal or Pattern)	Triggers on intervals selectable between 1 ns and 20 s
Timeout (State/Edge Qualified)	Triggers on any source if a given state (or transition edge) has occurred on another source. Delay between sources is 1 ns to 20 s, or 1 to 99,999,999 events
Runt	Trigger on positive or negative runts defined by two voltage limits and two time limits. Select between 1 ns and 20 ns
Slew Rate	Trigger on edge rates. Select limits for dV, dt, and slope. Select edge limits between 1 ns and 20 ns
Exclusion Triggering	Trigger on intermittent faults by specifying the expected behavior and triggering when that condition is not met

SPECIFICATIONS

Cascade (Sequence) Triggering	WavePro 715Zi	WavePro 725Zi (SDA)	WavePro 735Zi (SDA, DDA)	WavePro 740Zi (SDA)	WavePro 760Zi (SDA, DDA)
Capability	Arm on "A" event, then Trigger on "B" event. Or Arm on "A" event, then Qualify on "B" event, and Trigger on "C" event. Or Arm on "A" event, then Qualify on "B" then "C" event, and Trigger on "D" event				
Types	A or B event: Edge, Glitch, Width, Window, Dropout, Interval, Runt, Slew Rate, or Pattern (analog) C or D event: Edge or Pattern				
Holdoff	Delay between A and B, B and C, C and D, are all selectable by time or number of events				
Reset	Reset between A and B, B and C, C and D, are all selectable in time				

High-speed Serial Protocol Triggering					
Data Rates	Not available	(Option WPZi-MSPT, standard with SDA 7 Zi) 100 Mb/s–1.25 Gb/s		(Option WPZi-HSPT, standard with SDA 7 Zi) 100 Mb/s–2.7 Gb/s, 3.0 Gb/s, 3.125 Gb/s	
Pattern Length	–	80-bits, NRZ or 8b/10b			
Clock and Data Outputs	–	400 mV_{p-p} (Typical), AC coupled			
Clock Recovery Jitter	–	2 ps rms + 0.3% Unit Interval rms for PRBS data patterns with 50% transition density (Typical)			
Hardware Clock Recovery Loop BW	–	PLL Loop BW = Fbaud/5500, 100 Mb/s to 2.488 Gb/s (Typical)			

Low-speed Serial Protocol Triggering (Optional)	
Available	I^2C, SPI (SPI, SSPI, SIOP), UART, RS-232, AudioBus (I^2S, LJ, RJ, TDM), CAN, LIN, FlexRay, MIL-STD-1553 Reference individual datasheets for complete specifications

Color Waveform Display	
Type	Color 15.3" flat panel TFT-Active Matrix LCD with high resolution touch screen
Resolution	WXGA; 1280 x 768 pixels
Number of Traces	Display a maximum of 8 traces. Simultaneously display channel, zoom, memory and math traces
Grid Styles	Auto, Single, Dual, Quad, Octal, X-Y, Single+X-Y, Dual+X-Y
Waveform Representation	Sample dots joined, or sample dots only

Integrated Second Display	
Type	Color 15.3" flat panel TFT-Active Matrix LCD with high resolution touch screen
Resolution	WXGA; 1280 x 768 pixels

LeCroy WaveStream Fast Viewing Mode	
Intensity	256 Intensity Levels, 1–100% adjustable via front panel control
Number of Channels	Up to 4 simultaneously
Type	Select analog or color graded
Max. Sampling Rate	40 GS/s (20 GS/s for WavePro 715Zi without WPZi-1.5GHZ-4X20GS option)
Persistence Aging	Select from 500 ms to Infinite
Waveforms/Second (Continuous)	Up to 2500 Waveforms/second

Analog Persistence Display	
Analog and Color-Graded Persistence	Variable saturation levels; stores each trace's persistence data in memory
Persistence Types	Select analog, color, or three-dimensional
Trace Selection	Activate persistence on all or any combination of traces
Persistence Aging	Select from 500 ms to infinity
Sweep Display Modes	All accumulated, or all accumulated with last trace highlighted

High-speed Digitizer Output (Option)	
Type	LeCroy LSIB
Transfer Rate	Up to 325 MB/s (Typical)
Output Protocol	PCI Express, Gen1 (4 lanes utilized for data transfer)
Control Protocol	TCP/IP
Command Set	Via Windows Automation, or via LeCroy Remote Command Set

Zoom Expansion Traces	
	Display up to 4 Zoom and 8 Math/Zoom traces

Processor/CPU	
Type	Intel® Core™ 2 Quad, 2.5 GHz (or better)
Processor Memory	4 GB standard, up to 8 GB optional (4 GB standard with "S-32" memory, 8 GB standard with "M-64" or "L-128" memory)
Operating System	Microsoft Windows® Vista® Business Edition (64-bit) with SP1
Real Time Clock	Date and time displayed with waveform and in hardcopy files SNTP support to synchronize to precision internal clocks

SPECIFICATIONS

Internal Waveform Memory	WavePro 715Zi	WavePro 725Zi (SDA)	WavePro 735Zi (SDA, DDA)	WavePro 740Zi (SDA)	WavePro 760Zi (SDA, DDA)
	4 active waveform memory traces (M1–M4) store 16-bit/point full length waveforms Waveforms can be stored to any number of files limited only by the data storage media capacity				
Setup Storage					
Front Panel and Instrument Status	Store to the internal hard drive or to a USB-connected peripheral device				
Interface					
Remote Control	Via Windows Automation, or via LeCroy Remote Command Set				
Network Communication Standard	LXI Class C, VXI-11 and VICP				
GPIB Port (Optional)	Supports IEEE – 488.2				
LSIB Port (Optional)	Supports PCI Express Gen1 x4 protocol with LeCroy supplied API				
Ethernet Port	Supports 10/100/1000BaseT Ethernet interface (RJ45 port)				
USB Ports	Minimum 6 total (Including 3 front panel) USB 2.0 ports support Windows compatible devices				
External Monitor Port	15-pin D-Type WXGA compatible to support customer-supplied external monitor. DVI connector to support LeCroy Zi-EXTDISP-15 additional touch screen display accessory. Includes support for extended desktop operation with optional LeCroy or other second monitor				
Peripheral Bus	LeCroy LBUS standard				
Auxiliary Input					
Signal Types	Select External Trigger				
Coupling	50 Ω: DC; 1 MΩ: AC, DC, GND				
Max. Input Voltage	50 Ω: 5 V_{rms}; 1 MΩ: 250 V (Peak AC < 10 kHz + DC)				
Auxiliary Output					
Signal Types	Select from calibrator, control signals or Off				
Calibrator Signal	500 Hz–5 MHz square wave or DC level; 2.5 mV to 500 mV into 50 Ω (5 mV–1 V into 1 MΩ)				
Control Signals	Trigger enabled, trigger out, pass/fail status				
Automatic Setup					
Auto Setup	Automatically sets timebase, trigger, and sensitivity to display a wide range of repetitive signals				
Find Vertical Scale	Automatically sets the vertical sensitivity and offset for the selected channel to display a waveform with the maximum dynamic range				
General					
Auto Calibration	Ensures specified DC and timing accuracy is maintained for 1 year minimum				
Probes					
Probes	Qty. (4) ÷10 passive probes				
Probe System	ProBus (and ProLink on 4 and 6 GHz models). Automatically detects and supports a variety of compatible probes				
Scale Factors	Automatically or manually selected depending on probe used				
Calibration Output	1 kHz square wave, 1 V_{p-p} (typical), output to probe hook				
Power Requirements					
Voltage	100–240 VAC ±10% at 50/60 Hz; 100–120 VAC ±10% at 400 Hz; Automatic AC Voltage Selection				
Max. Power Consumption	800 W/ 800 VA				
Environmental					
Temperature (Operating)	+5 °C to +40 °C including CD-RW/DVD-ROM drive				
Temperature (Non-Operating)	–20 °C to +60 °C				
Humidity (Operating)	5% to 80% relative humidity (non-condensing) up to +31 °C Upper limit derates to 50% relative humidity (Non-condensing) at +40 °C				
Humidity (Non-Operating)	5% to 95% relative humidity (non-condensing) as tested per MIL-PRF-28800F				
Altitude (Operating)	Up to 10,000 ft. (3,048 m) at or below +25 °C				
Altitude (Non-Operating)	Up to 40,000 ft. (12,192 m)				
Random Vibration (Operating)	0.5 grms overall level, 5 Hz to 500 Hz, 10 minutes in each of three orthogonal axes, 30 minutes total				
Random Vibration (Non-Operating)	2.0 grms overall level, 5 Hz to 500 Hz, 10 minutes in each of three orthogonal axes, 30 minutes total				
Functional Shock	20 g_{peak}, half sine, 11 ms pulse, 3 shocks (positive and negative) in each of three orthogonal axes, 18 shocks total as tested per MIL-PRF-28800F				
Physical Dimensions					
Dimensions (HWD)	355 mm x 467 mm x 289 mm; 14" x 18.4" x 11.4" (height excludes feet)				
Weight	18.4 kg; 40 lbs.				
Shipping Weight	28.2 kg; 62 lbs.				
Certifications					
	CE Compliant, UL and cUL listed; conforms to EN 61326-1, EN 61010-1, UL 61010-1 2nd edition, and CSA C22.2 No. 61010-1-04				
Warranty and Service					
	3-year warranty; calibration recommended annually. Optional service programs include extended warranty, upgrades, and calibration services.				

SPECIFICATIONS

Standard

Math Tools

Display up to 8 math function traces (F1–F8). The easy-to-use graphical interface simplifies setup of up to two operations on each function trace, and function traces can be chained together to perform math-on-math.

absolute value
average (summed)
average (continuous)
derivative
deskew (resample)
difference (–)
enhanced resolution (to 11 bits vertical)
envelope
exp (base e)
exp (base 10)
fft (power spectrum, magnitude, phase, up to 128 Mpts)
floor
integral
invert (negate)
log (base e)
log (base 10)
product (x)
ratio (/)
reciprocal
rescale (with units)
roof
(sinx)/x
square
square root
sum (+)
zoom (identity)

- Parameter math – add, subtract, multiply, or divide two different parameters
- Narrow-band power measurements
- Auto-correlation function
- Sparse function
- Cubic and Quadratic Interpolation function

Measure Tools

Display any 12 parameters together with statistics, including their average, high, low, and standard deviations. Histicons provide a fast, dynamic view of parameters and wave shape characteristics.

amplitude
area
base
cycles
data
delay
Δ delay
duty cycle
duration
falltime (90–10%, 80–20%, @ level)
frequency
first
last
level @ x
maximum
mean
median
minimum
narrow band phase
narrow band power
number of points
+overshoot
–overshoot
peak-to-peak
period
risetime (10–90%, 20–80%, @ level)
rms
std. deviation
top
width
median
phase
time @ minimum (min.)
time @ maximum (max.)
Δ time @ level
Δ time @ level from trigger
x@ max.
x@ min.

Pass/Fail Testing

Simultaneously test multiple parameters against selectable parameter limits or pre-defined masks. Pass or fail conditions can initiate actions including document to local or networked files, e-mail the image of the failure, save waveforms, send a pulse out at the front panel auxiliary BNC output, or (with the GPIB option) send a GPIB SRQ.

Standard

Jitter and Timing

Parametric Measurements:

- period@level
- width@level
- duty@level
- frequency@level
- TIE@level
- edge@level

Statistical Analysis:

- Jitter Trend (1000 pts)
- Histograms (1000 pts)

Software Options

Jitter and Timing Analysis Software Package (WPZi-JTA2)

This package provides jitter timing and analysis using time, frequency, and statistical views for common timing parameters, and also includes other useful tools. JTA2 includes:

- "Track" graphs of all parameters, no limitation of number
  - Cycle-Cycle Jitter
  - N-Cycle
  - N-Cycle with start selection
  - Frequency
  - Period
  - Half Period
  - Width
  - Time Interval Error
  - Setup
  - Hold
  - Skew
  - Duty Cycle
  - Duty Cycle Error
- Edge@lv parameter (counts edges)
- Histograms expanded with 19 histogram parameters and up to 2 billion events
- Trend (datalog) of up to 1 million events
- Track graphs of all parameters
- Persistence histogram, persistence trace (mean, range, sigma)

Spectrum Analyzer Mode (WPZi-SPECTRUM)

This package provides a new capability to navigate waveforms in the frequency domain using spectrum analyzer type controls.

FFT capability added to include:

- power averaging • power density • real and imaginary components
- frequency domain parameters • FFT on up to 128 Mpts.

Disk Drive Measurements Package (WPZi-DDM2)

This package provides disk drive parameter measurements and related mathematical functions for performing disk drive WaveShape Analysis.

- Disk Drive Parameters are as follows:

amplitude assymetry
local base
local baseline separation
local maximum
local minimum
local number
local peak-peak
local time between events
local time between peaks
local time between troughs
local time at minimum
local time at maximum
local time peak-trough
local time over threshold
local time trough-peak
local time under threshold
narrow band phase
narrow band power
overwrite
pulse width 50
pulse width 50–
pulse width 50+
resolution
track average amplitude
track average amplitude–
track average amplitude+
auto-correlation s/n
non-linear transition shift

ORDERING INFORMATION

Product Description	Product Code
WavePro 7 Zi Series Oscilloscopes	
1.5 GHz, 10 GS/s, 4 Ch, 10 Mpts/Ch (20 GS/s and 20 Mpts/Ch in interleaved mode) with 50 Ω and 1 MΩ Input	WavePro 715Zi
2.5 GHz, 20 GS/s, 4 Ch, 10 Mpts/Ch (40 GS/s and 20 Mpts/Ch in interleaved mode) with 50 Ω and 1 MΩ Input	WavePro 725Zi
3.5 GHz, 20 GS/s, 4 Ch, 10 Mpts/Ch (40 GS/s and 20 Mpts/Ch in interleaved mode) with 50 Ω and 1 MΩ Input	WavePro 735Zi
4 GHz, 20 GS/s, 4 Ch, 10 Mpts/Ch (40 GS/s and 20 Mpts/Ch in interleaved mode) with 50 Ω and 1 MΩ Input	WavePro 740Zi
6 GHz, 20 GS/s, 4 Ch, 10 Mpts/Ch (40 GS/s and 20 Mpts/Ch in interleaved mode) with 50 Ω and 1 MΩ Input	WavePro 760Zi
SDA Zi Series Serial Data Analyzers	
2.5 GHz, 20 GS/s, 4 Ch, 20 Mpts/Ch (40 GS/s and 40 Mpts/Ch in interleaved mode) with 50 Ω and 1 MΩ Input	SDA 725Zi
3.5 GHz, 20 GS/s, 4 Ch, 20 Mpts/Ch (40 GS/s and 40 Mpts/Ch in interleaved mode) with 50 Ω and 1 MΩ Input	SDA 735Zi
4 GHz, 20 GS/s, 4 Ch, 20 Mpts/Ch (40 GS/s and 40 Mpts/Ch in interleaved mode) with 50 Ω and 1 MΩ Input	SDA 740Zi
6 GHz, 20 GS/s, 4 Ch, 20 Mpts/Ch (40 GS/s and 40 Mpts/Ch in interleaved mode) with 50 Ω and 1 MΩ Input	SDA 760Zi
DDA 7 Zi Series Oscilloscopes	
3.5 GHz, 20 GS/s, 4 Ch, 20 Mpts/Ch (40 GS/s and 20 Mpts/Ch in interleaved mode) with 50 Ω and 1 MΩ Input	DDA 735Zi
6 GHz, 20 GS/s, 4 Ch, 20 Mpts/Ch (40 GS/s and 20 Mpts/Ch in interleaved mode) with 50 Ω and 1 MΩ Input	DDA 760Zi
Included with Standard Configuration	
÷10, 500 MHz Passive Probe (Qty. 4)	
ProLink to SMA Adapter: 4 each	LPA-SMA-A
Optical 3-button Wheel Mouse, USB 2.0	
Protective Front Cover	
Printed Quick Reference Guide	
Printed Getting Started Manual	
Product Manual in PDF Format on Scope Desktop	
Anti-virus Software (Trial Version)	
Microsoft Windows® Vista® License	
Commercial NIST Traceable Calibration with Certificate	
Power Cable for the Destination Country	
3-year Warranty	
Memory and Sample Rate Options	
32 Mpts/Ch (64 Mpts/Ch Interleaved) Memory Option for WavePro 7 Zi	WPZi-S-32
32 Mpts/Ch (64 Mpts/Ch Interleaved) Memory Option for DDA 7 Zi	DDAPZi-S-32
32 Mpts/Ch (64 Mpts/Ch Interleaved) Memory Option for SDA 7 Zi	SDAZi-S-32
64 Mpts/Ch (128 Mpts/Ch Interleaved) Memory Option for WavePro 7 Zi. Includes an additional 4 GB of RAM (8 GB total)	WPZi-M-64
64 Mpts/Ch (128 Mpts/Ch Interleaved) Memory Option for DDA 7 Zi. Includes an additional 4 GB of RAM (8 GB total)	DDAZi-M-64

Product Description	Product Code
Memory and Sample Rate Options (cont'd)	
64 Mpts/Ch (128 Mpts/Ch Interleaved) Memory Option for SDA7 Zi. Includes an additional 4 GB of RAM (8 GB total)	SDAZi-M-64
128 Mpts/Ch (256 Mpts/Ch Interleaved) Memory Option for WavePro 7 Zi. Includes an additional 4 GB of RAM (8 GB total)	WPZi-L-128
128 Mpts/Ch (256 Mpts/Ch Interleaved) Memory Option for DDA 7 Zi. Includes an additional 4 GB of RAM (8 GB total)	DDAZi-L-128
128 Mpts/Ch (256 Mpts/Ch Interleaved) Memory Option for SDA 7 Zi. Includes an additional 4 GB of RAM (8 GB total)	SDAPZi-L-128
20 GS/s (40 GS/s Interleaved) Sampling Rate Option for 1.5 GHz WavePro 715 Zi	WPZi-1.5GHZ-4X20GS
CPU, Computer and Other Hardware Options	
Upgrade from 4 GB to 8 GB CPU RAM	WPZi-4-UPG-8GBRAM
Upgrade from Standard Size Hard Drive to 500 GB Hard Drive	WPZi-500GB-RHD-02
Additional 160 GB Hard Drive	WPZi-160GB-RHD-02
Additional 500 GB Hard Drive	WPZi-500GB-RHD-02
GPIB Option for LeCroy Oscilloscope	GPIB-2
Serial Data Options and Accessories	
SDA II Serial Data Analysis Option (Standard on SDA 7 Zi and DDA 7 Zi)	WPZi-SDAII
Eye Doctor II Advanced Signal Integrity Tools	WPZi-EYEDRII
3.125 Gb/s High-speed Serial Pattern Trigger Option for 4–6 GHz Oscilloscopes (Standard on SDA 7 Zi and DDA 7 Zi)	WPZi-HSPT
1.25 Gb/s Medium-speed Serial Pattern Trigger Option for 2.5–3.5 GHz Oscilloscopes (Standard on SDA 7 Zi and DDA 7 Zi)	WPZi-MSPT
Cable De-embed (Standard on SDA7 Zi and DDA 7 Zi)	WPZi–CBL-DE-EMBED
8b/10b Decode only Option (Standard on SDA 7 Zi and DDA 7 Zi)	WPZi-8B10B D
QualiPHY Enabled PCIe Gen1 Compliance and Development Software Option	QPHY-PCIe
QualiPHY Enabled SATA 1.5 Gb/s, 3.0 Gb/s ands 6.0 Gb/s Software Option	QPHY-SATA
QualiPHY Enabled USB 2.0 Software Option	QPHY-USB*
QualiPHY Enabled HDMI Software Option	QPHY-HDMI†
QualiPHY Enabled DDR2 Software Option	QPHY-DDR2
QualiPHY Enabled DDR3 Software Option	QPHY-DDR3
QualiPHY Enabled Ethernet Software Option	QPHY-ENET‡
QualiPHY Enabled WiMedia UWB Software Option	QPHY-UWB
PCI Express Decode Annotation Option	WPZi-PCIEbus D
PCI Express Decode Annotation and Protocol Analyzer Synchronization Option	ProtoSync PE
PCI Express Decode Annotation and Protocol Analyzer +BitTracer Synchronization Option	ProtoSync PE-B
PCI Express Decode Annotation and Protocol Analyzer+BitTracer Synchronization Option and Including 15" External Touch Screen Display	ProtoSync PE-B-EXTDISP
Audiobus Trigger and Decode Option for I^2S, LJ, RJ, and TDM	WPZi-Audiobus TD
Audiobus Trigger, Decode, and Graph Option for I^2S, LJ, RJ, and TDM	WPZi-Audiobus TDG
I^2C Bus Trigger and Decode Option	WPZi-I2Cbus TD
SPI Bus Trigger and Decode Option	WPZi-SPIbus TD
LIN Trigger and Decode Option	WPZi-LINbus TD
UART and RS-232 Trigger and Decode Option	WPZi-UART-RS232bus TD

*TF-USB-B required. † TF-HDMI-3.3V-QUADPAK required. ‡TF-ENET-B required.

ORDERING INFORMATION

Product Description	Product Code
Serial Data Options and Accessories (cont'd)	
FlexRay Trigger and Decode Option	WPZi-FlexRaybus TD
FlexRay Trigger, Decode, and Physical Layer Test Option	WPZi-FlexRaybus TDP
CANbus TDM Trigger, Decode and Measure/Graph Option	WPZi-CANbus TDM
MIL-STD-1553 Trigger and Decode Option	WPZi-1553 TD
High-speed Digitizer Output	
High-speed PCIe Gen1 x4 Digitizer Output	LSIB-1
PCI Express x4 Host Interface Board for Desktop PC	LSIB-HOSTBOARD
PCI Express x1 Express Card Host Interface for Laptop Express Card Slot	LSIB-HOSTCARD
PCI Express x4 3-meter Cable with x4 Cable Connectors Included	LSIB-CABLE-3M
PCI Express x4 7-meter Cable with x4 Cable Connectors Included	LSIB-CABLE-7M
Mixed Signal Testing Options	
500 MHz, 2 GS/s, 18 Ch, 50 Mpts/Ch Mixed Signal Oscilloscope Option	MS-500
250 MHz, 1 GS/s, 36 Ch, 25 Mpts/Ch (500 MHz, 18 Ch, 2 GS/s, 50 Mpts/Ch Interleaved) Mixed Signal Oscilloscope Option	MS-500-36
250 MHz, 1 GS/s, 18 Ch, 10 Mpts/Ch Mixed Signal Oscilloscope Option	MS-250
General Purpose and Application Specific Software Options	
Advanced Customization Software Package	WPZi-XDEV
Spectrum Analyzer and Advanced FFT Option	WPZi-SPECTRUM
EMC Pulse Parameter Software Package	WPZi-EMC
Serial Data Mask Software Package (Standard on SDA 7 Zi and DDA 7 Zi)	WPZi-SDM
Advanced Optical Recording Measurement Package	WPZi-AORM
Jitter Timing and Analysis Software Package (Standard on SDA7 Zi and DDA 7 Zi)	WPZi-JTA2
Power Measure Analysis Software Package	WPZi-PMA2
Digital Filter Software Package	WPZi-DFP2
Disk Drive Measurements Software Package (Standard on DDA 7 Zi)	WPZi-DDM2
Electrical Telecom Mask Test Software Package	WPZi-ET-PMT
General Accessories	
Top-mounted, Fully Integrated 15.3" WXGA with Touch Screen Display, Including all Cabling and Software	Zi-EXTDISP-15
Accessory for Zi Oscilloscopes to Enable TTL Level Output from the Aux Out Connector	TTL-AUX-OUT
Keyboard, USB	KYBD-1
Probe Deskew and Calibration Test Fixture	TF-DSQ
Hard Carrying Case	WPZi-HARDCASE
Soft Carrying Case	WPZi-SOFTCASE
Rackmount Accessory for Converting a Zi Series Oscilloscope to an 8U Rack-mounted Package	RACKMOUNT-1
ProLink to SMA Adapter	LPA-SMA-A
Kit of ProLink to SMA Adapters	LPA-SMA-KIT-A
Oscilloscope Cart with Additional Shelf and Drawer	OC1024
Oscilloscope Cart	OC1021

Product Description	Product Code
Probes and Probe Accessories	
2.5 GHz, 0.7 pF Active Probe (÷10), Small Form Factor	HFP2500
1.5 GHz, 0.9 pF, 1 MΩ High Impedance Active Probe	ZS1500
Set of 4 ZS1500, 1.5 GHz, 0.9 pF, 1 MΩ High Impedance Active Probe	ZS1500-QUADPAK
WaveLink 6 GHz Differential Amplifier Module with Adjustable Tip	D600A-AT*
WaveLink 3.5 GHz 2.5 Vp-p Differential Amplifier Small Tip Module	D310*
WaveLink 3.5 GHz 5 Vp-p Differential Amplifier Small Tip Module	D320*
WaveLink 6 GHz 2.5 Vp-p Differential Amplifier Small Tip Module	D610*
WaveLink 6 GHz 5 Vp-p Differential Amplifier Small Tip Module	D620*
WaveLink 5 GHz Differential Amplifier Module with Positioner Tip	D500PT*
Differential Positioner Tip with Accessories (for use with D610 or D310)	Dx10-PT-kit
Differential Positioner Tip with Accessories (for use with D620 and D320)	Dx20-PT-kit
WaveLink ProLink Platform/Cable Assembly (3.5 – 6 GHz)	WL-PLink†
WaveLink ProBus Platform/Cable Assembly (3.5 GHz)	WL-PBus
7.5 GHz Low Capacitance Passive Probe (÷10, 1 kΩ; ÷20, 500 Ω)	PP066
1 GHz, Active Differential Probe (÷1, ÷10, ÷20)	AP034
Optical-to-Electrical Converter, 500–870 nm ProLink BMA Connector	OE525
Optical-to-Electrical Converter, 950–1630 nm ProLink BMA Connector	OE555
10/100/1000Base-T Compliance Test Fixture	TF-ENET-B‡
Telecom Adapter Kit 100 Ω Bal., 120 Ω Bal., 75 Ω Unbal.	TF-ET
SATA 1.5 Gb/s, 3.0 Gb/s and 6.0 Gb/s Compliance Test Fixture	TF-SATA-C
USB 2.0 Compliance Test Fixture	TF-USB-B

* For a complete probe, order a WL-PLink, or WL-PBus Platform/Cable Assembly with the Probe Tip Module.

† Compatible on models with ProLink interface (4 GHz BW and higher).

‡ Includes ENET-2CAB-SMA018 and ENET-2ADA-BNCSMA.

A variety of other active voltage and current probes are also available. Consult LeCroy for more information.

Customer Service

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

LeCroy 1-800-5-LeCroy www.lecroy.com

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

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