

WavePro[®] 7 Zi Series 1.5 GHz-6 GHz

The New Oscilloscope Experience



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Variation System Warker 0 Tab. (SDA) (SDA, DDA) (SDA, DDA) (SDA, DDA) (SDA, DDA) Analog Inghi Life (Hom Bandwith endog Inghi Life (Hom Bandwith endog Inghi Life (Hom Bandwith et al) 15 GHz 2.5 GHz 3.5 GHz 6.5 GHz 3.5 GHz	Vertical Contemp	M/	WavePro 725Zi	WavePro 735Zi	WavePro 740Zi	WavePro 760Zi
B SD (2) dB (2) for mV/dv) Conversion G (2) mV/dv) C	Vertical System	WavePro 715Zi	(SDA)	(SDA, DDA)	(SDA)	(SDA, DDA)
B D (2) d D) (c) 10 mV(dv) (c) 10 mV	@ 50 Ω (-3 dB) (≥ 10 mV/div)				(≥ 10 mV/div)	(≥ 10 mV/div)
Anotog (Profiles input) Bendwidth (#1 MC (24 (PA)) 500 MHz (Typical) 70 pa Input Change 1 Mt2 AC C, C GND, 50 V, C GND 1 GHz, 3 GHz (A GHZ) 1 GHz, 3 GHz (A GHZ) 1 GHz, 3 GHz (A GHZ) 1 GHZ (A GHZ)						
Rise Time (Typical, 60.02) 225 ps 150 ps 120 ps 105 ps 70 ps Bandwidth Limiters 20 MHz, 200 MHz, 1 GHz 20 MHz, 200 MHz, 20 MHz, 20 MHz 20 MHz, 20 MHz, 20 MHz, 20 MHz 20 MHz, 20 MHz, 20 MHz 20 MHz, 20 MHz, 20 MHz 20 MHz, 20 MHz, 20 MHz, 20 MHz 20 MHz <td>Analog (ProBus Input) Bandwidth</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Analog (ProBus Input) Bandwidth					
Input Channels 4 Bandwidth Limiters 20 MHz, 20 MHz, 1 GHz 20 MHz, 20 MHz, 20 MHz, 1 GHz, 3 GHz 20 MHz, 20 MHz, 20 MHz, 1 GHz, 3 GHz 20 MHz, 20 MHz, 20 MHz, 1 GHz, 3 GHz 20 GHz, 4 GHz 4 GHz Maximum Input Voltage 1 MQ: AC, DC, GND, 50 GL 2 GHz, 4 GHz 50 Q. (Poulink): 4 SV max, 1 GHz is 20 I at 4 GHz 1 MQ: 1 GHz, 3 GHz 4 GHz Vental Resolution 8 Dis up to 1 1 Sits with enhanced resolution (FEES) 50 Q. (Poulink): 4 Visit, 1 UV visit, 1 W vorable (2-9 Bit Mythz) 1 MQ: 1 Site MVdix 4 V GHz 1 Site MVdix 4 V GHz 1 Site MVdix 4 V GHZ MVdix 1 MQ: 1 Site MVdix 4 V GHZ MVdix 1 MQ: 1 Site MVdix 4 V GHZ MVdix 1 MQ: 1 Site MVdix </td <td></td> <td>235 ps</td> <td>150 ps</td> <td>120 ps</td> <td>105 ps</td> <td>70 ps</td>		235 ps	150 ps	120 ps	105 ps	70 ps
Input Impedance IOHz, 3 GHz IOHZ, 2 HZ, MUZ, 1 HZ IOHZ, 2 HZ, 1 HZ IOHZ, 2 HZ, 1 HZ IOHZ, 2 HZ <thiohz< th=""> IOHZ <thiohz< th=""> IO</thiohz<></thiohz<>	Input Channels					
Input Coupling 1 M2: AC, DC, GND, 50 2: DC, GND Status Maximum Input Voltage 1 M2: AC, DC, GND, 50 2: DC, GND 50 9: IProBusi: ±5 Vmm Channel-Channel Isolation = 100:1 at 2 GHz; ± 40:1 at 3 GHz; ± 20:1 at 4 GHz 1 M4: ProBusi: 250 V max. (peek AC: ± 10 KHz + DC) Channel-Channel Isolation = 100:1 at 2 GHz; ± 40:1 at 3 GHz; ± 20:1 at 4 GHz (peek AC: ± 10 KHz + DC) Vertical Resolution 8 bits: up to 11 bits with enhanced resolution (ERES) (peek AC: ± 10 KHz + DC) Senativity 50 9: IProBusi Isouti ± 750 mV @ 10-170 mV/div ± 4750 mV @ 10-170 mV/div ± 750 mV @ 10-170 mV/div ± 470 mV @ 10-170 mV/div ± 470 mV @ 10-170 mV/div ± 470 mV @ 10-170 mV/div ± 750 mV @ 10-170 mV/div ± 470 mV @ 10-170 mV/div ± 470 mV @ 10-170 mV/div ± 470 mV @ 10-170 mV/div ± 750 mV @ 10-170 mV/div ± 10 V @ 13 mV-1.28 V/div ± 750 mV @ 10-170 mV/div ± 750 mV @ 10-170 mV/div ± 10 V @ 13 mV-1.28 V/div ± 10 V @ 13 mV-1.28 V/div ± 750 mV @ 10-170 mV/div ± 10 V @ 13 mV-1.28 V/div ± 10 V @ 13 mV-1.28 V/div ± 10 V @ 13 mV-1.28 V/div ± 10 V @ 13 mV-1.28 V/div ± 10 V @ 13 mV-1.28 V/div ± 10 V @ 13 mV-1.08 Mit mode: 20 ps/dV/T mm iast calibration) 1 mme/Dvision Rang				1 GHz, 3 GHz		
Maximum Input Voltage 50 2, t5 Vms 50 2, t75 Vms 50 2, t75 Vms Channel-Channel Isolation > 100:1 at 2 GHz; ± 40:1 at 3 GHz; ± 20:1 at 4 GHz 50 2, t75 Vms 100; t2 0 GHz; ± 40:1 at 3 GHz; ± 20:1 at 4 GHz Channel-Channel Isolation > 100:1 at 2 GHz; ± 40:1 at 3 GHz; ± 20:1 at 4 GHz 50 2, t75 Vms 100; t2 0 Hz; ± 40:1 at 3 GHz; ± 20:1 at 4 GHz Sensitivity 50 2; 2 mV-11 Vdiv, fully variable (2-0.99 mV/div via zoom); 1 M2: 2 mV-10 Vdiv, fully variable 50 2; t75 Vms 50 0; t75 Om V 0; 10:-10 mV/div 2 Gif Accuracy ± 15% of full scale 50 0; t75 Om V 0; 10:-10 mV/div ± 750 mV 0; 10:-118 mV/div 2 Cif A via V 0; 12 mV/div-1 Vdiv ± 10 V 0; 13 N-10 V/div ± 4 V 0; 12 mV/div ± 4 V 0; 12 mV/div 2 H1 V 0; 2 13 mV/div ± 10 V 0; 13 N-10 V/div ± 10 V 0; 13 mV-1 28 V/div ± 1 V 0; 12 mV/div ± 1 V 0; 12 mV/div 2 H1 V 0; 2 13 mV/div ± 10 V 0; 13 mV-1 28 V/div ± 10 V 0; 13 mV-1 28 V/div ± 1 V 0; 12 mV/div ± 1 V 0; 12 mV/div 1 me/dovision Range Internal timebase common to 4 input channels; an external clock may be applied at the auxiliary input Tmmbases Internal timebase common to 4 input channels; an external clock may be applied at the auxiliary input Tmmbases Imme/dovision Range Real tinne: 20 ps/div-1000 din/ Ris mode: 20 ps/div-10 ns/div				with supplied probe		
1 M2: 250 V max. (peak AC: = 10 kHz + DC) 5 0.2 (ProLink1: = 4 Vyook. 1 M2. (POBus): 250 V max. (peak AC: = 10 kHz + DC) Channel-Channel Isolation > 100:1 at 2 GHz; = 40:1 at 3 GHz; > 20:1 at 4 GHz (peak AC: = 10 kHz + DC) Sensitivity 50:2 PmV-1 Vdiv, fully variable (peak AC: = 10 kHz + DC) DC Gain Accuracy = 1 5% of full scale 50:2 (ProBus Input): = 4750 mV @ 10-118 mVdiv = 4760 mV @ 10-118 mVdiv = 4760 mV @ 10-118 mVdiv = 4760 mV @ 10-118 mVdiv = 4770 mV @ 10-118 mVdiv = 4770 mV @ 10-118 mVdiv = 4770 mV @ 10-118 mVdiv = 41 0 @ 128 mVdiv = 10 V @ 130 mV-1.28 Vdiv = 10 0 V @ 130 mV-1.28 Vdiv = 0 0 0 S fdiv; Fool 1 S fdiv; Fool 1 S fdiv		1 MΩ: AC, DC, GND;				
Vertical Resolution 8 bits: up to 11 bits with enhanced resolution (ERES) Sensitivity 50 Ω 2 mV-1 V(div, fully variable 2 mV-10 V(div, fully variable DC Gain Accuracy ± 1.5% of full scale 50 Ω (ProBus Input): ± 750 mV @ 10-110 mV(div ± 750 mV @ 10-120 mV(div ± 4 V @ 12 mV(div-1 V(div ± 4 V @ 12 mV(div-1 V(div) ± 4 V @ 12 mV(div-1 V(div) ± 1 W @ 2-128 mV(div ± 1 W @ 2-128 mV(div ± 4 V @ 12 mV(div-1 V(div) ± 4 V @ 12 mV(div-1 V(div) ± 1 W @ 2-128 mV(div ± 1 W @ 2-128 mV(div) ± 1 W @ 2-128 mV(div) ± 4 V @ 12 mV(div-1 V(div) ± 1 W @ 2-128 mV(div) ± 10 V @ 13 N-12 W (div) ± 1 W @ 2-128 mV(div) ± 1 W @ 2-128 mV(div) ± 1 W @ 2-128 mV(div) ± 10 V @ 13 M-1.28 V(div) ± 100 V @ 1.3 V-10 V/div ± 100 V @ 1.3 V-10 V/div ± 100 V @ 1.3 V-10 V/div Horizontal System Internal timebase common to 4 input channels; an external clock may be applied at the auxiliary input Time/Division Range East mine 20 ps/div-100 s/div (IS mode: up to 1000 s/div) Clock Accuracy ± 1 pm + 4 liging of 0.5 pm/pr from last calibration) Time Internal Accuracy 2 ps mV(pipcieal) 2 ps fupcieal)	Maximum Input Voltage	1 MΩ: 250	1 MΩ: 250 V max. (peak AC: ≤ 10 kHz + DC) 50 Ω (ProLink): ±4 V _{peak} 1 MΩ (ProBus): 250 V max.			nk): ±4 V _{peak} s): 250 V max.
Sensitivity 50 £2 2 mV-1 V(div, fully variable (2-6.9.9 mV/div via zoom); 1 M£; 2 mV-10 V/div, fully variable DC Gain Accuracy ±1.5% of full scale 50 £2 (ProBus Input); ±750 mV @ 10-170 mV/div ±4 V @ 172 mV/div ±750 mV @ 10-18 mV/div ±4 V @ 172 mV/div ±4 V @ 172 mV/div ±1 V @ 2-128 mV/div ±1 V @ 2-128 mV/div ±1 V @ 2-128 mV/div ±1 V @ 2-128 mV/div ±1 V @ 2-128 mV/div ±4 V @ 172 mV/div ±1 V @ 2-128 mV/div ±10 V @ 1.3 V-10 V/div ±10 W @ 1.3 V-10 V/div ±1 0 V @ 1.3 V-10 V/div ±10 V @ 1.3 V-10 V/div ±10 V @ 1.3 V-10 V/div ±10 V @ 1.3 V-10 V/div ±10 V @ 1.3 V-10 V/div ±10 V @ 1.3 V-10 V/div ±10 V @ 1.3 V-10 V/div ±10 V @ 1.3 V-10 V/div ±10 V @ 1.3 V-10 V/div Morizontal System Internal timebase common to 4 input channels; an external clock may be applied at the auxiliary input Time Interval Accuracy < 0.06 / SR + (clock accuracy* Keating) (rms)	Channel-Channel Isolation					
Offset Range 50 Q (ProBus Input): ±750 m V 00 10-170 m/dv ±4 V @ 172 mV/dv 1 M2: (ProBus Input): ±1 V @ 2-128 mV/dv ±1 V @ 122 mV/dv ±1 V @ 2-128 mV/dv ±1 V @ 2-128 mV/dv ±1 V @ 2-128 mV/dv ±10 V @ 130 mV-1.28 V/dv ±10 V @ 130 mV-1.28 V/dv ±10 V @ 13 mV-10 V/dv Uffset Accuracy ±1.5% of full scale +1.0% of offset value +1 mV) Horizontal System Uffset Accuracy <10.6 / SR + (clock accuracy' F Reading (ms) Jitter Noise Floor 1.5 ps (Typical) Timeptase Reference (Input) 1 pm + (sing and 0.5 pm/rty from last calinatration) 1 pmms (Typical) Channel Deskew Range ±9 x time/dv. setting. 100 ms max, each channel 1 pmms (Typical) External Timebase Reference (Input) 10 MHz; 50 Q impedance, applied at the rear output 1 pmms (Typical) Channel Deskew Range ±9 x time/dv. setting. 100 ms max, each channel 1 pmms (Typical) External Timebase Reference (Input)	Sensitivity	50 Ω: 2 mV–1 V/div, fu			2 mV–10 V/div, fully var	iable
+250 mV @ 10-120 mV/div +250 mV @ 10-118 mV/div +4 V @ 172 mV/div-1 V/div +4 V @ 120 mV/div-1 V/div +1 V @ 2-128 mV/div +250 mV @ 10-118 mV/div +1 V @ 2-128 mV/div +250 mV @ 10-170 mV/div +10 V @ 130 mV-1.28 V/div +250 mV @ 10-170 mV/div +10 V @ 130 mV-1.28 V/div +250 mV @ 10-170 mV/div +10 V @ 130 mV-1.28 V/div +2750 mV @ 10-170 mV/div +10 V @ 130 mV-1.28 V/div +10 V @ 130 mV-1.28 V/div +10 V @ 130 mV-1.28 V/div +10 V @ 130 mV-1.28 V/div +10 V @ 130 mV-1.28 V/div +10 V @ 130 mV-1.28 V/div +10 V @ 130 mV-1.28 V/div +10 V @ 130 mV-1.28 V/div +10 V @ 130 mV-1.28 V/div +10 V @ 130 mV-1.28 V/div +10 V @ 130 mV-1.28 V/div +10 V @ 130 mV-1.28 V/div +10 V @ 130 mV-1.28 V/div +10 V @ 130 mV-1.28 V/div +10 V @ 130 mV-1.28 V/div +10 V @ 130 mV-1.28 V/div 11me/Dusion Range Real time:20 ps/div-100 s/div Clock Accuracy <1 ppm + (aging of 0.5 pm/yr from last calibration)		±1.5% OT TUIL Scale	50 O (ProBuc Input):		50 O /Prol	ink Input):
1 M2: (ProBus Input): ± 1 V @ 2-128 mV/div ± 10 V @ 130 mV-1.28 V/div ± 100 V @ 130 mV-1.28 V/div ± 100 V @ 130 mV-1.28 V/div ± 100 V @ 130 mV-1.28 V/div Moreover the set of the	Onsernange		750 mV @ 10–170 mV/d		±750 mV @ 1	0–118 mV/div
±1 V @ 2-128 mV/div ±750 mV @ 10-170 mV/div ±10 V @ 130 mV-1.28 V/div ±4 V @ 172 mV/div-1 V/div ±10 V @ 13 V-10 V/div ±10 V @ 13 V-10 V/div ±10 V @ 13 V-10 V/div ±1 W @ 2-128 mV/div ±10 V @ 13 V-10 V/div ±1 W @ 2-128 mV/div ±10 V @ 13 W-1.28 V/div ±10 V @ 13 W-1.28 V/div ±10 V @ 13 W-10 V/div ±10 V @ 13 W-1.28 V/div ±10 V @ 13 W-10 V/div ±10 V @ 13 W-10 V/div Horizontal System Timehases Imethases Relatine: 20 ps/div-1000 s/div (RIS mode: 20 ps/div-10 ns/div; Roll mode: up to 1000 s/div) Clock Accuracy < 1 ps m + (aging of 0.5 pm/yr from last calibration)						
±10 V @ 130 mV-1.28 V/div ±100 V @ 1.3 V-10 V/div ±4 V @ 172 mV/div-1 V/div ±10 V @ 130 mV-1.28 V/div ±100 V @ 1.3 V-10 V/div ±1 W @ 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 Immebases Time/Division Range Real time: 20 ps/div-100 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/Division Range Real time: 20 ps/div-100 s/div; RIS mode: 20 ps/div-10 ns/div; Roll mode: up to 1000 s/div) Oclock Accuracy ≤ 1 ppm + (aging of 0.5 ppm/yr from last calibration) Time/Division Range 1 ps (Typical) Tingger and Interpolator Jitter 3 psmc (Typical) Trigger and Interpolator Jitter 3 psmc (Typical) Tingger and Interpolator Jitter 3 psmc (Typical) Tingger and Interpolator Jitter 3 psmc (Typical) Time/Division Range ±9 x time/div. setting, 100 ms mx, each channel External Timebase Reference (Input) 10 MHz; 50 Ω impedance, applied at the rear input External Timebase Reference (Input) 10 MHz; 50 Ω or 1 MΩ impedance, applied at the auxiliary input Single-Shot Sample Rate/Ch 20 GS/s on 2 Ch 10 GS/s on 4 Ch 0(Option)						
±1 V @ 2-128 mV/div ±10 V @ 130 mV-1.28 V/div ±10 V @ 13 mV-1.28 V/div ±10 V @ 13 mV-1.28 V/div ±100 V @ 13 V-10 V/div Horizontal System Time/Division Range Internal timebase common to 4 input channels; an external clock may be applied at the auxiliary input Clock Accuracy ≤ 1 ppm + (aging of 0.5 ppm/yr from last calibration) 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/Division Range Flock accuracy V = 0.06 / SR + (clock accuracy * Reading) (rms) J Uitter Noise Floor 1.5 ps (Typical) 2 psms (Typical) Timebase Reference (Input) 10 MHz; 50 Ω impedance, applied at the rear input External Timebase Reference (Input) 10 MHz; 50 Ω impedance, applied at the rear output External Timebase Reference (Output) 10 MHz; 50 Ω impedance, applied at the auxiliary input External Timebase Reference (Output) 10 MHz; 50 Ω impedance, applied at the auxiliary input External Timebase Reference (Output) 10 MHz; 50 Ω impedance, applied at the auxiliary input External Timebase Reference (Input) 10 MHz; 50 Ω impedance, applied at the auxiliary input External Timebase Reference (Input) 0.1 Hz=100 MHz; 50 Ω impedance, applied at the auxiliary input		±1		div		
±10 V @ 130 mV-1.28 V/div ±100 V @ 1.3 V-10 V/div Offset Accuracy ±10.5% of full scale +1.0% of offset value +1 mV) Horizontal System 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-100 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) 2 psms (Typical) 750 fs (Typical) 560 fs (Typical) Tingger and Interpolator Jitter 3 psms (Typical) 1 ps (Typical) 2 psms (Typical) 1 psms (Typical) 2 psms (Typical) Startmal Timebase Reference (Input) 10 MHz; 50 Q impedance, applied at the rear output External Timebase Reference (Input) External Timebase Reference (Input) WP715Zi WP725Zi (SDA) WP745Zi WP740Zi WP760Zi (SDA, DDA) Single-Shot Sample Rate/Ch 20 GS/s on 2 Ch 10 GS/s on 4 Ch (Option 200 GS/s on 2 Ch 20 GS/s on 4 Ch 200 GS/s on 4 Ch 200 GS/s on 4 Ch Maximum Acquisition 20 GS/s on 2 Ch 10 GS/s on 4 Ch 200 GS/s on 4 Ch 200 GS/s on 4 Ch 200 GS/s on 4 Ch Single-Shot Sample R		÷	100 V @ 1.3 V–10 V/di	v	1 MΩ: (Pro	Bus Input):
±100 V @ 1.3 V-10 V/div Offset Accuracy ±11.5% of full scale +1.0% of offset value +1 mV) Horizontal System Time/Davision Range Internal timebase common to 4 input channels; an external clock may be applied at the auxiliary input Time/Davision 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)		±1 V @ 2–128 mV/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-100 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)			±10 V @ 130 mV–1.28 V/div			
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-100 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)					±100 V @ 1.	3 V–10 V/div
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-100 (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)	Offset Accuracy	$\pm(1.5\% \text{ of full scale } +$	1.0% of offset value +	1 mV)		
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)	Horizontal System					
Clock Accuracy ≤ 1 ppm + laging of 0.5 ppm/yr from last calibration) Time Interval Accuracy < 0.06 / SR + (clock accuracy* Reading) (rms)	Timebases	Internal timebase con	nmon to 4 input channe	els; an external clock m	ay be applied at the au	xiliary input
Time Interval Accuracy < 0.06 / SR + (clock accuracy* Reading) (rms)	Time/Division Range	Real time: 20 ps/div–1	000 s/div (RIS mode: 2	0 ps/div–10 ns/div; Roll	mode: up to 1000 s/di	V)
Jitter Noise Floor 1.5 ps (Typical) 1 ps (Typical) 800 fs (Typical) 750 fs (Typical) 560 fs (Typical) Trigger and Interpolator Jitter 3 psrms (Typical) 2 psrms (Typical) 1 psrms (Typical) 1 psrms (Typical) Channel-Channel Deskew Range ±9 x time/div. setting, 100 ms max., each channel 1 psrms (Typical) 1 psrms (Typical) External Timebase Reference (Input) 10 MHz; 50 Ω impedance, applied at the rear input External Timebase Reference (Output) 10 MHz; 50 Ω or 1 MΩ impedance, applied at the rear output External Clock 0.1 Hz–100 MHz, 50 Ω or 1 MΩ impedance, applied at the auxiliary input WP740Zi WP760Zi Acquisition System WP715Zi WP725Zi (SDA) (SDA, DDA) (SDA) (SDA, DDA) Single-Shot Sample Rate/Ch 20 GS/s on 2 Ch 20 GS/s on 4 Ch 10 square squa						
Trigger and Interpolator Jitter 3 psrms (Typical) 2 psrms (Typical) 1 psrms (Typical) 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 External Clock 0.1 Hz-100 MHz, 50 Ω or 1 MΩ impedance, applied at the auxiliary input Acquisition System WP715Zi WP725Zi (SDA) WP735Zi (SDA, DDA) WP740Zi (SDA, DDA) Single-Shot Sample Rate/Ch 20 GS/s on 2 Ch 10 GS/s on 4 Ch (Option WP7140Zi 00 GS/s on 4 Ch 20 GS/s on 4 Ch 00 GS/s ON	i					
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 External Timebase Reference (Output) 10 MHz; 50 Ω impedance, applied at the rear output External Clock 0.1 Hz-100 MHz; 50 Ω or 1 MΩ impedance, applied at the auxiliary input Acquisition System WP715Zi WP725Zi (SDA) WP735Zi (SDA) (SDA) WP740Zi (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 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 1.250,000 waveforms/second (in Sequence Mode, up to 4 channels) Intersegment Time 800 ns Maximum 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 20M / 40 M) 5000 S-32 – Memory Option 32 M / 64 M 15,000		1 1 1 1			. /1 .	
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 Image: Display transmission of the ternal transmission of terna					1 ps _{rms}	(Typical)
External Timebase Reference (Output) 10 MHz; 50 Ω impedance, applied at the rear output External Clock 0.1 Hz–100 MHz, 50 Ω or 1 MΩ impedance, applied at the auxiliary input Acquisition System WP715Zi WP725Zi (SDA) WP735Zi (SDA, DDA) WP740Zi (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) 20 GS/s on 2 Ch 200 GS/s for repetitive signals (20 ps /div. to 10 ns/div) Image: Comparison of the sample rate) Random Interleaved Sampling (RIS) 200 GS/s for repetitive signals (20 ps /div. to 10 ns/div) Image: Comparison of the sample rate) Maximum Trigger Rate 1,250,000 waveforms/second (in Sequence Mode, up to 4 channels) Immet of Segments Intersegment Time 800 ns Number of Segments Maximum Acquisition (4 Ch / 2 Ch) Number of Segments Standard Memory 10 M /20 M (Standard memory for SDA and DDA scopes are 20M /40 M) 5000 S-32 – Memory Option 32 M / 64 M 15,000						
External Clock 0.1 Hz–100 MHz, 50 Ω or 1 MΩ impedance, applied at the auxiliary input Acquisition System WP715Zi WP725Zi (SDA) WP735Zi (SDA) WP740Zi (SDA) WP760Zi (SDA) Single-Shot Sample Rate/Ch 20 GS/s on 2 Ch 10 GS/s on 2 Ch 20 GS/s on 4 Ch (Option WPZt-1.5GHZ-4X20GS doubles the sample rate) 40 GS/s on 4 Ch 20 GS/s on 4 Ch 20 GS/s on 4 Ch 20 GS/s on 4 Ch 20 GS/s on 4 Ch 20 GS/s on 4 Ch 20 GS/s on 4 Ch 20 GS/s on 4 Ch 20 GS/s on 4 Ch Random Interleaved Sampling (RIS) 200 GS/s for repetitive signals (20 ps /div. to 10 ns/div) 40 GS/s on 4 Ch 40 GS/s on 4 Ch Maximum Trigger Rate 1,250,000 waveforms/second (in Sequence Mode, up to 4 channels) 40 GS/s on 5 40 GS/s on 4 Ch Maximum Acquisition (4 Ch / 2 Ch) Number of Segments 40 GS/s on 4 Ch 5000 Standard Memory 10 M / 20 M (Standard memory for SDA and DDA scopes are 20M / 40 M) 5000 5.32 - Memory Option 32 M / 64 M M-64 - Memory Option 64 M / 128 M 15,000 15,000 15,000		· · · · · · · · · · · · · · · · · · ·		•		
Acquisition SystemWP715ZiWP725Zi (SDA)WP735ZiWP740ZiWP760ZiSingle-Shot Sample Rate/Ch20 GS/s on 2 Ch40 GS/s on 2 Ch20 GS/s on 2 Ch20 GS/s on 4 Ch20 GS/s on 4 Ch(OptionWP21-1.5GH2-4X20GSdoubles the sample rate)200 GS/s on 4 Ch20 GS/s on 4 Ch20 GS/s on 4 ChRandom Interleaved Sampling (RIS)200 GS/s for repetitive signals (20 ps /div. to 10 ns/div)Maximum Trigger Rate1,250,000 waveforms/second (in Sequence Mode, up to 4 channels)Intersegment Time800 nsMaximum Acquisition(4 Ch / 2 Ch)Number of SegmentsMemory Points/Ch10 M / 20 M (Standard memory for SDA and DDA scopes are 20M / 40 M)5000S-32 - Memory Option32 M / 64 M15,000M-64 - Memory Option64 M / 128 M15,000					input	
Acquisition SystemWP715ZiWP725Zi (SDA)(SDA, DDA)(SDA)(SDA, DDA)Single-Shot Sample Rate/Ch20 GS/s on 2 Ch 10 GS/s on 4 Ch (Option WPZt-1.5GHZ-4X20GS doubles the sample rate)40 GS/s on 2 Ch 20 GS/s on 4 Ch 0 QS/s on 4 Ch 0 QDS/s for repetitive signals (20 ps /div. to 10 ns/div)40 GS/s on 2 Ch 20 GS/s on 2 Ch 20 GS/s on 4 ChRandom Interleaved Sampling (RIS)200 GS/s for repetitive signals (20 ps /div. to 10 ns/div)Maximum Trigger Rate1,250,000 waveforms/second (in Sequence Mode, up to 4 channels)Intersegment Time800 nsMaximum Acquisition Memory Points/Ch(4 Ch / 2 Ch)Standard Memory10 M / 20 M (Standard memory for SDA and DDA scopes are 20M / 40 M)S-32 - Memory Option32 M / 64 MM-64 - Memory Option64 M / 128 M		0.1112 100 10112, 00 1		applied at the duxilary	input	
Single-Shot Sample Rate/Ch20 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 0 GS/s on 4 ChRandom Interleaved Sampling (RIS)200 GS/s for repetitive signals (20 ps /div. to 10 ns/div)Maximum Trigger Rate1,250,000 waveforms/second (in Sequence Mode, up to 4 channels)Intersegment Time800 nsMaximum Acquisition Memory Points/Ch(4 Ch / 2 Ch)Standard Memory10 M / 20 M (Standard memory for SDA and DDA scopes are 20M / 40 M)5000S-32 - Memory Option32 M / 64 M15,000M-64 - Memory Option64 M / 128 M15,000						
10 GS/s on 4 Ch (Option WPZi-1.5GHZ-4X20GS doubles the sample rate)20 GS/s on 4 Ch (Option WPZi-1.5GHZ-4X20GS doubles the sample rate)Random Interleaved Sampling (RIS)200 GS/s for repetitive signals (20 ps /div. to 10 ns/div)Maximum Trigger Rate1,250,000 waveforms/second (in Sequence Mode, up to 4 channels)Intersegment Time800 nsMaximum Acquisition Memory Points/Ch(4 Ch / 2 Ch)Standard Memory10 M / 20 M (Standard memory for SDA and DDA scopes are 20M / 40 M)5000S-32 – Memory Option32 M / 64 M15,000M-64 – Memory Option64 M / 128 M15,000			WP725Zi (SDA)			(SDA, DDA)
(Option WPZi-1.5GHZ-4X20GS doubles the sample rate)Random Interleaved Sampling (RIS)200 GS/s for repetitive signals (20 ps /div. to 10 ns/div)Maximum Trigger Rate1,250,000 waveforms/second (in Sequence Mode, up to 4 channels)Intersegment Time800 nsMaximum Acquisition Memory Points/Ch(4 Ch / 2 Ch)Standard Memory10 M / 20 M (Standard memory for SDA and DDA scopes are 20M / 40 M)5000S-32 – Memory Option32 M / 64 M15,000M-64 – Memory Option64 M / 128 M15,000	Single-Shot Sample Rate/Ch					
WPZi-1.5GHZ-4X20GS doubles the sample rate)Random Interleaved Sampling (RIS)200 GS/s for repetitive signals (20 ps /div. to 10 ns/div)Maximum Trigger Rate1,250,000 waveforms/second (in Sequence Mode, up to 4 channels)Intersegment Time800 nsMaximum Acquisition Memory Points/Ch(4 Ch / 2 Ch)Standard Memory10 M / 20 M (Standard memory for SDA and DDA scopes are 20M / 40 M)500032 M / 64 MM-64 – Memory Option64 M / 128 M				20 03/5	0114 C11	
Maximum Trigger Rate 1,250,000 waveforms/second (in Sequence Mode, up to 4 channels) Intersegment Time 800 ns Maximum Acquisition (4 Ch / 2 Ch) Memory Points/Ch Number of Segments Standard Memory 10 M / 20 M (Standard memory for SDA and DDA scopes are 20M / 40 M) 5000 S-32 – Memory Option 32 M / 64 M 15,000 M-64 – Memory Option 64 M / 128 M 15,000		WPZi-1.5GHZ-4X20GS				
Maximum Trigger Rate 1,250,000 waveforms/second (in Sequence Mode, up to 4 channels) Intersegment Time 800 ns Maximum Acquisition (4 Ch / 2 Ch) Number of Segments Memory Points/Ch 10 M / 20 M (Standard memory for SDA and DDA scopes are 20M / 40 M) 5000 Standard Memory 10 M / 64 M 15,000 M-64 – Memory Option 64 M / 128 M 15,000	Random Interleaved Sampling (RIS)		e signals (20 ps /div. to	10 ns/div)		
Maximum Acquisition Memory Points/Ch(4 Ch / 2 Ch)Number of SegmentsStandard Memory10 M / 20 M (Standard memory for SDA and DDA scopes are 20M / 40 M)5000S-32 – Memory Option32 M / 64 M15,000M-64 – Memory Option64 M / 128 M15,000						
Memory Points/Ch Image: Ch Standard Memory 10 M / 20 M (Standard memory for SDA and DDA scopes are 20M / 40 M) 5000 S-32 – Memory Option 32 M / 64 M 15,000 M-64 – Memory Option 64 M / 128 M 15,000						
S-32 – Memory Option 32 M / 64 M 15,000 M-64 – Memory Option 64 M / 128 M 15,000	Memory Points/Ch	(4 Ch / 2 Ch) Number of Segments				
M-64 – Memory Option 64 M / 128 M 15,000			d memory for SDA and	DDA scopes are 20M		
L-128 – Memory Option 128 MI / 256 M 15,000						
	L-120 - IVIEITIOLY OPTION	128 IVI / 256 IVI			15,000	

Acquisition Processing	WavePro 715Zi	WavePro 725Zi (SDA)	WavePro 735Zi (SDA, DDA)	WavePro 740Zi (SDA)	WavePro 760Zi (SDA, DDA)
Averaging		1 million sweeps; cont	inuous averaging to 1	million sweeps	
Enhanced Resolution (ERES)	From 8.5 to 11 bits ve	rtical resolution			
Envelope (Extrema)	Envelope, floor, or roo	f for up to 1 million swe	eeps		
Interpolation	Linear or Sin x/x				
Triggering System					
Modes	Normal, Auto, Single, a				
Sources			e and level unique to e	ach source (except line	trigger)
Coupling Mode	DC, AC, HFRej, LFRej				
Pre-trigger Delay		ize (adjustable in 1% ir			
Post-trigger Delay		real time mode, limited		ttings or in roll mode	
Hold-off by Time or Events	From 2 ns up to 20 s	or from 1 to 99,999,999	9 events		
Internal Trigger Range	±4.1 div from center				
Trigger Sensitivity with Edge Trigger (Ch 1–4) ProBus Inputs	2 div @ < 1 GHz 1.5 div @ < 500 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)	(for DC, AC	2 div @ < 3.5 GHz 1.5 div @ < 1.75 GHz 1.0 div @ < 200 MHz ;, LFRej coupling, ≥ 10 m ³	√/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 co				
Max. Trigger Frequency, SMART Trigger™	1.0 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 @ ≥ (minimum triggera	
External Trigger Input Range	Aux (±0.4 V); Aux/10 (±	-4 V)	·		
Basic Triggers					
Edge		eets slope (positive, neg			
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	55 , I	source only if a defined es is selectable by time	0	d on another input sour	ce.
Qualified First		In Sequence acquisition mode, triggers repeatably 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	s out for longer than se	lected time between 1	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 T					
Glitch	bandwidth) to 20 s, or	on intermittent faults.		low as 200 ps (dependir	
Width (Signal or Pattern)		egative or both widths on intermittent faults.	with widths selectable	e as low as 200 ps (dep	ending on oscilloscope
Interval (Signal or Pattern)		electable between 1 n	s and 20 s.		
Timeout (State/Edge Qualified)	Triggers on any source		nsition edge) has occu	rred on another source.	
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			, and slope. Select edg	ge limits between 1 ns a	and 20 ns.
Exclusion Triggering				nd triggering when that	

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High-speed Serial Protocol Triggering	WavePro 715Zi	WavePro 725Zi (SDA)	WavePro 735Zi (SDA, DDA)	WavePro 740Zi (SDA)	WavePro 760Zi (SDA, DDA)
Data Rates	Not available		SPT, standard with b/s–1.25 Gb/s		HSPT, standard with Mb/s–2.7 Gb/s
Pattern Length	-		80 bits, N	IRZ or 8b10b	
Clock and Data Outputs	-			ical), AC coupled	
Clock Recovery Jitter	-	1 ps rms + 0.3% l			50% transition density
Hardware Clock Recovery Loop BW	-		BW = Fbaud/5500, 50		
Low-speed Serial Protocol Triggering (Optional)					
Available		OP), UART-RS232, CA datasheets for comple			
Color Waveform Display					
Туре	Color 15.3" flat panel	TFT-Active Matrix LCD	with high resolution t	ouch screen	
Resolution	WXGA; 1280 x 768 pi	ixels			
Number of Traces			usly display channel, z	oom, memory and ma	ath traces.
Grid Styles	Auto, Single, Dual, Qu	uad, Octal, X-Y, Single-	+X-Y, Dual+X-Y		
Waveform Representation	Sample dots joined, c		· · · ·		
Integrated Second Display					
Туре	Color 15.3" flat panel	TFT-Active Matrix LCD	with high resolution t	ouch screen	
Resolution	WXGA; 1280 x 768 pi				
LeCroy WaveStream Fast Viewing Mode					
Intensity		1–100% adjustable via	a front panel control		
Number of Channels	Up to 4 simultaneous	ly			
Туре	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	o Infinite			
Waveforms/Second (continuous)	Up to 2500 Waveforn	ns/second			
Analog Persistence Display					
Analog and Color-Graded Persistence	Variable saturation lev	vels; stores each trace	's persistence data in r	memory	
Persistence Types	Select analog, color, c	or three-dimensional			
Trace Selection	Activate persistence	on all or any combinat	on of traces		
Persistence Aging	Select from 500 ms to	o infinity			
Sweep Display Modes	All accumulated, or al	All accumulated, or all accumulated with last trace highlighted			
High-speed Digitizer Output (Opt					
Type	LeCroy LSIB				
Transfer Rate	Up to 250 Mpts/s (Ma				
Output Protocol		lanes utilized for data	transter)		
Control Protocol Command Set	TCP/IP Via Windows Automa	ation, or via LeCroy Re	mote Command Set		
Zoom Expansion Traces					
	Display up to 4 Zoom	and 8 Math/Zoom tra	ces		
Processor/CPU					
Туре	Intel® Core™ 2 Quad, 2	2.5 GHz (or better)			
Processor Memory	2 GB standard, up to	8 GB optional	standard with "NA 64"	or " 120" momonul	
Operating System		Vista® Business Edition	standard with "M-64"		
Real Time Clock	Date and time display	ed with waveform and	d in hardcopy files.		
		chronize to precision ir			
Internal Waveform Memory					
) store 16-bit/point full files limited only by th		capacity
Satur Storage	vvaverunns can be st	ored to any number of	mes inflited only by th	ie uata storaye media	σαμασιτγ.
Setup Storage Front Panel and Instrument Status	Storo to the internal -	and drive or to a LICP	connected peripher-1	lovico	
From Panel and Instrument Status	Store to the internal h	iaiu urive or to a USB-	connected peripheral o	ievice.	

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Interface	WavePro 725Zi WavePro 715Zi (SDA)	WavePro 735Zi (SDA, DDA)	WavePro 740Zi (SDA)	WavePro 760Zi (SDA, DDA)
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 LeCrov supplied AF	9	
Ethernet Port	Supports 10/100/1000BaseT Ethernet in		1	
USB Ports	Minimum 6 total (Including 3 front panel		Mindows compatible	lovicos
External Monitor Port	15-pin D-Type WXGA compatible to sup			
External Monitor Fort	support LeCroy WPZi-EXTDISP-15 addit desktop operation with optional LeCroy	ional touch screen displa	y accessory. Includes :	
Peripheral Bus	LeCroy LBUS standard			
Auxiliary Input				
Signal Types	Select External Trigger or External Clock	Input on the front panel		
Coupling	50 Ω: DC; 1 MΩ: AC, DC, GND			
Max. Input Voltage	50 Ω: 5 V _{rms} ; 1 MΩ: 250 V (Peak AC < 1	0 kHz + DC)		
Auxiliary Output		0.11		
Signal Types	Select from calibrator, control signals or			
Calibrator Signal	500 Hz–5 MHz square wave or DC level	; 0.0 to 500 mV into 50 §	2 (0–1 V into 1 IVI Ω)	
Control Signals	Trigger enabled, trigger out, pass/fail sta	tus		
Automatic Setup		at a constato de la c	vide and for still	
Auto Setup	Automatically sets timebase, trigger, and	a sensitivity to display a	wide range of repetitiv	e signals
Find Vertical Scale	Automatically sets the vertical sensitivity with the maximum dynamic range	y and offset for the selec	ted channel to display	a waveform
General				
Auto Calibration	Ensures specified DC and timing accura	cy is maintained for 1 ye	ar minimum.	
Probes				
Probes	Oty. (4) ÷10 Passive Probes			
Probe System	ProBus (and ProLink on 4 and 6 GHz mo of compatible probes	dels). Automatically deter	cts and supports a vari	ety
Scale Factors	Automatically or manually selected depe	ending on probe used		
Calibration Output	1 kHz square wave, 1 V_{p-p} (typical), outp	ut to probe hook		
Power Requirements				
Voltage	100–240 VAC ±10% at 50/60 Hz; 100–1	20 VAC ±10% at 400 Hz	; Automatic AC Voltage	e 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-conde Upper limit derates to 50% relative hum		t +40 °C.	
Humidity (Non-Operating)	5% to 95% relative humidity (non-conde	ensing) as tested per MIL	-PRF-28800F	
Altitude (Operating)	Up to 10,000 ft. (3048 m) at or below +2	25 °C		
Altitude (Non-Operating)	Up to 40,000 ft. (12,192 m)			
Random Vibration (Operating)	0.5 g _{rms} 5 Hz to 500 Hz, 15 minutes in e			
Random Vibration (Non-Operating)	2.4 g _{rms} 5 Hz to 500 Hz, 15 minutes in e			
Functional Shock	20 g peak, half sine, 11 ms pulse, 3 shock total as tested per MIL-PRF-28800F	s (positive and negative) i	n each of three orthogo	onal axes, 18 shocks
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	26.6 kg; 58 lbs.			
Certifications				
	CE Compliant, UL and cUL listed; confor	rms to EN 61326, EN 610	010-1, UL 61010 2nd e	dition, and
Warranty and Service	CSA C22.2 No. 61010-1-04			
TRATUTLY UND OF MUC	3-year warranty; calibration recommend	ed annually. Optional ser	vice programs include	extended warranty,
	upgrades, and calibration services.			

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

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

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

littor	and	Timina
Jillei	anu	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:

- Jitter and timing parameters, with "Track" graphs of
- Cycle-Cycle Jitter
 Period
 Hold

 N-Cycle
 Half Period
 Skew

 N-Cycle with start
 Width
 Duty Cycle

 selection
 Time Interval Error
 Duty Cycle Error

 Frequency
 Setup
- 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 maximum 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 F	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)	WavePro 715Zi
with 50 Ω and 1 MΩ Input 2.5 GHz, 20 GS/s, 4 Ch, 10 Mpts/Ch (40 GS/s and 20 Mpts/Ch in interleaved mode)	WavePro 725Zi
with 50 Ω and 1 MΩ Input 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
with 50 Ω and 1 MΩ Input 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 M Ω 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)	SDA 725Zi
with 50 Ω and 1 MΩ Input 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
with 50 Ω and 1 MΩ Input 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 M Ω 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)	DDA 735Zi
with 50 Ω and 1 MΩ Input 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 Optical 3-Button Wheel Mouse, USB 2.0	LPA-SMA-A
Protective Front Cover Printed Quick Reference Guide Printed Getting Started Manual	
Product Manual Set on CD-ROM Norton Anti-virus Software (Trial Version) Microsoft Windows® Vista® License	
Commercial NIST Calibration with Performance 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. Includes an additional 2 GB of RAM (4 GB total)	WPZi-S-32
32 Mpts/Ch (64 Mpts/Ch Interleaved) Memory Option for DDA 7 Zi. Includes an additional 2 GB of RAM (4 GB total)	DDAPZi-S-32
32 Mpts/Ch (64 Mpts/Ch Interleaved) Memory Option for SDA 7 Zi. Includes an additional 2 GB of RAM (4 GB total)	SDAZi-S-32

Product Description

Product Code

Memory and Sample Rate Options (cont'd)	
64 Mpts/Ch (128 Mpts/Ch Interleaved) Memory Option for WavePro 7 Zi. Includes an additional 6 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 6 GB of RAM (8 GB total)	DDAZi-M-64
64 Mpts/Ch (128 Mpts/Ch Interleaved) Memory Option for SDA7 Zi. Includes an additional 6 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 6 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 6 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 6 GB of RAM (8 GB total)	SDAPZi-L-128
20 GS/s (40 GS/s Interleaved) Sampling Rate WPZi- Option for 1.5 GHz WavePro 715 Zi	1.5GHZ-4X20GS

CPU, Computer and Other Hardware Options

Upgrade from 2 GB to 8 GB CPU RAM	WPZi-2-UPG-8GBRAM
Upgrade from 4 GB to 8 GB CPU RAM	WPZi-4-UPG-8GBRAM
Upgrade from Standard Size Hard Drive to 200 GB Hard Drive	WPZi-200GB-HD
Additional 80 GB Hard Drive	WPZi-80GB-RHD-02
Additional 200 GB Hard Drive	WPZi-200GB-RHD-02
GPIB Option for LeCroy Oscilloscope	GPIB-2

Serial Data Options and Accessories

2.7 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 Opt for 2.5–3.5 GHz Oscilloscopes (Standard on SDA 7 and DDA 7 Zi)	
Cable De-Embed (Standard on SDA7 Zi and DDA 7 Zi)	WPZi-CBL-DE-EMBED
8b10b Decode only Option (Standard on SDA 7 Zi and DDA 7 Zi)	WPZi-8B10B D
I ² C 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 W	PZi-UART-RS232bus TD
FlexRay Trigger and Decode Option	WPZi-FlexRayBus TD
FlexRay Bus Trigger, Decode, and Physical Layer Test Option	WPZi-FlexRayBus TDP
CANbus TDM Trigger, Decode and Measure/Graph Option	WPZi-CANbus TDM
CANbus TD Trigger and Decode Option	WPZi-CANbus TD
Ethernet Application Software	QPHY-ENET*
USB Application Software	QPHY-USB [†]
PCIe Gen1 Compliance and Development Software	Package QPHY-PCIe
QualiPHY Enabled SATA Software Option	QPHY-SATA
WiMedia UWB Transmitter Measurement Software	Option QPHY-UWB
Eye Doctor (Virtual Probe and Equalizer emulation) E	Bundle WPZi-EYEDR
Eye Doctor Virtual Probing Element	WPZi-EYEDR-VP
Eye Doctor Equalized Receiver Emulation	WPZi-EYEDR-EQ
*TF-ENET-B required. ⁺ TF-USB-B required.	

*TF-ENET-B required. TTF-USB-B required.

ORDERING INFORMATION

Product Description	Product Code
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 X4 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	MS-500-36

250 MHz, 1 GS/s, 36 Ch, 25 Mpts/Ch	MS-500-36
(500 MHz, 18 Ch, 2 GS/s, 50 Mpts/Ch Interleaved)	
Mixed Signal Oscilloscope Option	
250 MHz, 1 GS/s, 18 Ch, 10 Mpts/Ch	MS-250
Mixed Signal Oscilloscope Option	

General Purpose and Application Specific Software Options

WPZi-XDEV
WPZi-SPECTRUM
WPZi-EMC
WPZi-SDM
WPZi-AORM
WPZi-DMOD
WPZi-JTA2
WPZi-DFP2
WPZi-DDM2
WPZi-ET-PMT

General Accessories

Top-mounted, Fully Integrated 15.3" WXGA with	WPZi-EXTDISP-15
Touch Screen Display, Including all Cabling and Software	9
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	RACKMOUNT-1
Oscilloscope to an 8U Rack-mounted Package	
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 M Ω High Impedance Active Probe	ZS1500
Set of 4 ZS1500, 1.5 GHz, 0.9 pF, 1 MΩZS1500High Impedance Active ProbeZS1500)-QUADPAK
WaveLink 7.5 GHz, Differential Probe Adjustable Tip Module	D600A-AT*
WaveLink 3.5 GHz, 2.5 V _{p-p} Differential Probe Small Tip Module	D310*
WaveLink 3.5 GHz, 5 V _{p-p} Differential Probe Small Tip Module	D320*
WaveLink 6 GHz, 2.5 V _{p-p} Differential Probe Small Tip Module	D610*
WaveLink 6 GHz, 5 V _{p-p} Differential Probe Small Tip Module	D620*
WaveLink 6 GHz, Differential Positioner Mounted Tip Module	D500PT*
WaveLink 6 GHz, Differential Positioner Mounted Tip Module WaveLink ProLink Probe Body	D500PT* WL-PLink
WaveLink ProLink Probe Body	WL-PLink WL-PBus
WaveLink ProLink Probe Body WaveLink ProBus Probe Body	WL-PLink WL-PBus
WaveLink ProLink Probe Body WaveLink ProBus Probe Body 7.5 GHz Low Capacitance Passive Probe (÷10, 1 kΩ; ÷20, 500 Ω	WL-PLink WL-PBus 2) PP066
WaveLink ProLink Probe Body WaveLink ProBus Probe Body 7.5 GHz Low Capacitance Passive Probe (÷10, 1 kΩ; ÷20, 500 Ω 1 GHz, Active Differential Probe (÷1, ÷10, ÷20) Optical-to-Electrical Converter, 500–870 nm ProLink	WL-PLink WL-PBus 2) PP066 AP034
WaveLink ProLink Probe Body WaveLink ProBus Probe Body 7.5 GHz Low Capacitance Passive Probe (÷10, 1 kΩ; ÷20, 500 Ω 1 GHz, Active Differential Probe (÷1, ÷10, ÷20) Optical-to-Electrical Converter, 500–870 nm ProLink BMA Connector Optical-to-Electrical Converter, 950–1630 nm ProLink BMA Connector	WL-PLink WL-PBus 2) PP066 AP034 OE525
WaveLink ProLink Probe Body WaveLink ProBus Probe Body 7.5 GHz Low Capacitance Passive Probe (÷10, 1 kΩ; ÷20, 500 Ω 1 GHz, Active Differential Probe (÷1, ÷10, ÷20) Optical-to-Electrical Converter, 500–870 nm ProLink BMA Connector Optical-to-Electrical Converter, 950–1630 nm ProLink BMA Connector	WL-PLink WL-PBus 2) PP066 AP034 OE525 OE555
WaveLink ProLink Probe Body WaveLink ProBus Probe Body 7.5 GHz Low Capacitance Passive Probe (÷10, 1 kΩ; ÷20, 500 Ω 1 GHz, Active Differential Probe (÷1, ÷10, ÷20) Optical-to-Electrical Converter, 500–870 nm ProLink BMA Connector Optical-to-Electrical Converter, 950–1630 nm ProLink BMA Connector 10/100/1000Base-T Compliance Test Fixture	WL-PLink WL-PBus 2) PP066 AP034 OE525 OE555 TF-ENET-B [†]

* For a complete probe, order a W-PLink or WL-PBus Probe Body with the Probe Tip Module

[†] 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