12. Product Standards and Specifications

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OSCILLOSCOPE

MODEL	820	840	860	800X	800Z
	20MHZ	40MHZ	60MHZ	100MHZ	200MHZ
	Real Sampling 100MS/s Per Channel 200MS/s Single Channel	Real Samplinger Channel, Single Channel, with 2.5 GS/ Samling	200 MS/s nl	Real Samplinger Channel, Single Channel, with 5 GS/s Samling	, 1 GS/s nl

INPUT		
Input Channeis	2 Channels	
Input Coupling	DC, AC, GND	
Input Impedance	$1MQ \pm 1\%, 20pF \pm 3pF$	
Probe Attenuation	x1 or x10	
Max Input	300V(direct input)	
	600V(through 10:1 Probe)	

VERTICAL		
Vertical Resolution	8-Bit	
VOLTS/DIV Range	5 mV/div~100 V/div(1,2,5 Step)	
Offset(Position)	\pm 5 div from center	
Vertical Accuracy	±3%	

HORIZONTAL					
MODEL	820	840	860	800X	800Z
SEC/DIV Range	50 ns/div~50 s/div 10ns/div~50 s/div 50 ns/div~50 s/div			-50 s/div	
Time Base Accuracy	±0.01%				
Position Range	pre-Trigger : 20div n	nax. Post-Trigger: 100	00div		
Delay Resolution	1/250 of screen diameter				
Delay Accuracy	0.04 divisions				
Delta Time	+3%				
Measurement Accuracy	1370				
Modes	Main, XY				
XY	Yes				
Horizental Pan and Zoom	Yes				

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TRIGGER	
Sources	ChannlA and B
Modes	Auto, Normal, Single
Advanced Selections	Edge, Pulse, Pattern, Video
Edge	Trigger on arising or Falling edge of any source
Pulsewidth	Trigger on apositive or negative pulsewidth of any source larger than, less than, equal to or not equal th duration width 200 nS \sim 10S
TV	625/PAL, SECAM, 525/NTSC, Source CHA, CHB, Even field, Odd field, Line #select
TV Sensitivity	0.7 div trigger Level
Auto Scale	Yes
Range	± 10 div from center of screen
Level Accuracy	±0.4 divisions
Level Resolutions	500 pixels
Sensitivity	DC 5MHz - 0.5div 1.5 divisions
Noise Rejections	Yes
Coupling Modes	DC: DC Coupled trigger AC:AC Coupled trigger cutoff frequency < 1HZ HF-Reject:>50KHz LF-Reject:>30KHz Noise Reject:3times the DC coupled limits

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ACQUISITION					
MODEL	820	840	860	800X	800Z
Real-Time	200MS/s si	ngle channel	,	1 GS/s Single Channl,	
Sample Rate	100MS/s pe	100MS/s per channel 500			r Channel
Waveform Interpolation	Dot, Linear, Sine, Pulse				
Record Length	125 Kbytes/channel 10 Kbytes/channel			/channel	
Acquisition Mode	Sample, Peak Detect, Envelope, Average				
Peak Detection	10ns				
Average	2-256				
Vertical Resolution	8bit				
Same Rate Accuracy	100ppm				
Minimum Sample Rate	100MS/s(250 ns to 50S/div)				

MEASUREMENT	
Automatic Measurement	Frequency Period, Mean, Cycle Mean, RMS, Peak-to-Peak, Max, Min, Amplitude, Top, Base, + Width, - Width, Rise time, Fall Time, +Duty, -Duty, Phase, +Overshout, -Overshout, Preshoot
Waveform Math	CH A+CH B, CH A-CH B, CH B -CH A
Cursors	Delta V Voltage
Delta V	Voltage diff Between cursors
Delta T	Time difference between cursors
FFT	Model 840/860/800X/800Z
Windows	Rectangular, Hamming, Hanning, Blackman- Harris
Amplitude Display	Variable dB(1/2/5/10/20dB)
Maximum Frequency	1.25 GHz

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FUNCTIONS	
Save/Recall	10Waveforms, 10 Settings
Zoom	Direct Time/Volt conversion
XY Mode	X Axis Channel Input - YAxis Channel Input

MULTIMETER

COUNTS	Autoranging 6000 Count, 35/6 digit with ananlog
	Bargraph display

DC VOLTAGE		
Range	600mV-1000V	
Accuracy	$\pm (0.3\% + 10 \text{digit})$	
Input Impedance	10Mohm	
Overload Protection	1,000v DC or AC Peak within 10 Seconds	

AC VOLTAGE(True RMS)		
Range 6V-600Vat 30KHz, True RMS		
Accuracy	$\pm (0.75\% + 10 \text{ digit}) \text{ at } 50\text{-}1\text{KHz}$	
	$\pm (2.0\% + 10 \text{ digit}) \text{ at 1-30KHz}$	
Overload Protection 1,000V DC or AC Peak within 10 Seconds		

RESISTANCE	
Range	600 ohm - 60M ohm
Accuracy	600 ohm-6M ohm \pm (0.5%+10 digit)
	60 Mohm $\pm (1.0\% + 10 \text{digit})$
Overload Protection	250V DC or AC Peak within 10 Seconds.

CAPACITANCE	
Range	60nF - 300uF
Accuracy	$\pm (2.0\% + 10 \text{ digits})$

OTHER MEASUREMENTS		
Diode Check	Accuracy:2%	
Continuity	less than 30 ohm, Buzzer Sound	
MIN/MAX/AVG	Records Minimum, Average and Maximum readings with Time Stamping	
Temperature, % Relative Humidity, High-Current, Pressure	Through external adapter (accuracy: mV accuracy of 800series+Adapter accuracy)	

DISPLAY	
Display Device	3.8", 320 × 240 Color LCD
Display Contrast	Adjustable
Persistence Mode	Channel and Math function are displayed dimmer for previous Acquistion

OPERATION	1 encoder switch, 18Key