

Specification for 16 Channel Scope corder

S. no.	Features	Specification	Qty
1	Main unit	Digital Scope Corder, Giga Zoom, Dual Capture, 10.4 Inch SVGA color TFT Liquid Crystal Display; Expandable up to 16 isolated analog channels + 16 logic inputs, built in high resolution thermal printer. Main unit without any input module.	1
1.1	Input type	Plug-in module (Each unit has a built in A/D converter)	
1.2	Maximum record length	50MW	
1.3	Time axis range	500nsec/div to 3day/div	
1.4	Time axis accuracy	0.005%	
1.5	Acquisition modes	Normal, Envelope, Box average, Averaging, Roll	
1.6	Trigger Mode	Auto, Auto normal, Normal, Single, Single(N), Log	
1.7	Pre Trigger	0 to 100% (in 0.1% step)	
1.8	Trigger source	CH1 to CH16, DSP1 to DSP6, LINE, EXT, LOGIC_A, LOGIC_B, TIME	
1.9	Display	10.4 inch color TFT LCD	
1.10	Resolution	800 x 600	
1.11	Display mode	Split (Single, dual, triad, quad, octal) ; Zoom (Main, Main & Z1, Main & Z1 & Z2; Main & Z2; Z1 only; Z2 only, Z1 & Z2) ; Z1 and Z2 are abbreviation for zoom area 1 and 2 respectively. XY (Single, Quad)	
1.12	Accumulation	PERSIST	
1.13	Recorder	Built in printer (A4 size roll) ; thermal line DOT printing; Real time hard drive recording.	
1.14	Screen Data Output (Image saving)	PNG, JPEG, BMP, PostScript	
1.15	FFT Windows	Rectangular, Hanning, Flat-top	
1.16	Cursors	Horizontal, vertical, Marker, Degree	
1.17	Automatic measurement	24 nos. (P-P, Max., Min, High Low, Avg, Rms, Amp, Std Dev, +Oshot, -Oshot, Rise, Fall, Req, Period, +Duty, +Width,-Width, Avg period, delay, Int1TY, Int2TY, Int1XY, Int2XY	
1.18	Search function	Edge, voice, auto, scroll	
1.19	History search	Zone	
1.20	Dual capture Function	To capture the same waveform at two different sampling rate. maximum number of captured screens :100	
1.22	Rated voltage	200 to 240VAC, 50/60 Hz	
1.3	Media Drives	Internal (PC card, 20GB Hard drive)	1
1.4	Math function	Addition, subtraction, multiplication, division, binary conversion, phase shifting, FFT ; ABS, SQRT, LOG, EXP, NEG, SIN, COS, TAN, ATAN, PH, DIF, DDIF, INTG, IINTG, BIN, P2, P3, F1, F2, FV, PWHH, PWHL, PWLH, PWLL, PWXX, FILT1, FILT2, HLBT, MEAN, LS-, PS-, PSD-, CS-, TF-, CH-, MAG, LOGMAG, PHASE, REAL, IMAG	1
1.5	PC Software	To transfer data file from Scope corder and the PC. And remote control of the scope corder using PC. Apply math function: add, subtract, multiply, division, trigonometry, Integration/differentiation, FFT calculation(at least six type).	1

2.0	Standard accessory		
2.1	Input Module for Scope corder	High speed 10MS/s 12-Bit Isolation Plug in Input Module for Scope recorder	4
2.11	Input channels per modules	2	
2.12	Maximum sampling	10MS/s	
2.13	A/D conversion resolution	12 bits	
2.14	Input type	Isolated unbalanced Isolation level 400V DC+ AC Peak	
2.15	Input range	5mV/div to 20V/div(with 1:1 probe) & 50mV/div to 200V/div with 10:1 probe)	
2.16	Effective measurement range	20 div (display range: 10 div)	
2.17	Input filter	OFF, 500Hz, 5 kHz, 50 kHz, 500 kHz	
2.18	Connector type	Isolation type BNC connector	
2.2	High voltage input module for Scope corder	High voltage 100kS/sec 16-bit isolation module with RMS	4
2.21	Input channels per modules	2	
2.22	Input couplings	AC, DC, GND, AC-RMS, DC-RMS	
2.23	Maximum sampling rate	100 kS/s	
2.24	A/D conversion resolution	16 bits (2400 LSB/div)	
2.25	Frequency range (–3 dB)1 Waveform measurement mode	DC, up to 40 kHz	
2.26	Input type	Isolated unbalanced max Isolation level 850V DC+ AC Peak	
2.27	RMS measurement mode	DC, 40 Hz to 10 kHz	
2.28	Input range	(10:1) 200 mV/div to 2000 V/div (in steps of 1, 2, or 5) ; (1:1) 20 mV/div to 200 V/div (in steps of 1, 2, or 5) Effective measurement range 20 div (display range 10 div)	
3.0	Calibration	Calibration certificate	1
4.0	Optional Accessories required:		
4.1	Voltage probe	Differential probe	3
4.11	Bandwidth	DC to 100 MHz	
4.12	Maximum allowed differential voltage:	±350 V (DC + ACpeak) or 250 Vrms (1/100 range) ±1400 V (DC + ACpeak) or 1000 Vrms (1/1000 range)	
4.13	Maximum common mode input voltage:	±1400 V (DC + ACpeak) or 1000 Vrms (both 1/100 and 1/1000 ranges)	
4.14	Maximum input voltage:	±1400 V (DC + ACpeak) or 1000 Vrms (1/1000 range)	
4.15	Common Mode Rejection Ratio (CMRR):	-80 dB (60 Hz), -50 dB (1 MHz)	

4.16	Input attenuation ratio:	Switched between 1/100 and 1/1000	
4.2	Isolated Probe	Isolated Probe; 1000Vrms-CATII (10:1)	8
4.3	Passive Probe	Non-Isolated Probe; 600Vrms (10:1)	16
4.4	Current Probe	Current Probe DC to 100 MHz bandwidth	1
4.41	Bandwidth:	DC to 50MHz(-3dB)	
4.42	Maximum peak current value	30Arms	
4.43	Amplitude accuracy	(0 to 30Arms): $\pm 1.0\%$ of rdg $\pm 1\text{mV}$ (to 50Apeak): $\pm 2.0\%$ of rdg (D	
4.5	Power supply	Current probe power supply	1
4.51	Number of power supply connectors	4	
4.52	Output voltage	$\pm 12\text{ V} \pm 0.5\text{ V}$	
4.53	Rated output current:	+12 V: 2.5 A, -12 V: 2.5 A (the total value of four outputs)	
4.54	Rated supply voltage:	AC100 to 240 V (50/60 Hz)	
4.6	Safety adaptor lead	1:1 BNC safety adaptor lead	4
4.7	Alligator Clip	Large Alligator Clip (Dolphin type), Rated Voltage 1000Vrms-CAT II (2 per unit)	4