

# DS-1080C/1150C/1250C



Model DS-1000C Color Series is featured with DC to 250MHz, maximum 100MS/s realtime sampling per channel (one channel only max. 200MS/s), equivalent sampling rate of 25GS/s.

Its 16bit high speed microprocessor adoption enables to acquire maximum 100,000points per second and quickly update the picture on the screen.

Its basic memory capacity is 32KBytes and captured waveforms can be zoomed in and analyzed in detail. Also its built-in 10ns peak detection circuit enables to capture high frequency noise at a low speed time/div and magnify and analyze it using the zoom-in function. It can save up to 10 waveforms and provides diversified analysis function like FFT which is available at high priced products.



## General Features

- Frequency Bandwidth : DC~ 80MHz : DS-1080C  
: DC~150MHz : DS-1150C  
: DC~250MHz : DS-1250C
- 5.7" Color LCD Display, 2 CH Dual Digitizer
- 100MS/s Simultaneous Maximum Sampling Rate per channel.  
200MS/s Sampling Rate for one channel only  
25GS/s Equivalent Sampling Rate per channel
- High Speed Screen Update using 16bit  $\mu$ -Processor
- 10ns Peak Detection for Glitch Capture

## Convenient Functions

- Long Memory Max. 32KBytes/CH for flexible Waveform Zoom In/Out
- Direct Single Trigger Capture Function using a hot-key
- Simultaneous 5 Waveform information
- Auto measurement and FFT Analysis
- Auto Trigger Level Setting to 50%
- Saving 10 Waveforms & 10 setup parameters
- Hold-Off
- Fast Trigger On/Off
- Convenient inserting interface card for RS-232C, Hardcopy and USB

Supplied by :

Tel: 0027 (011) 683 4365

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# Specifications

COLOR DIGITAL OSCILLOSCOPE

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SPEC	MODEL	DS-1080C	DS-1150C	DS-1250C	
ACQUISITION	Max. Sample rate	200MSPS for one channel only, 100MSPS/CH(real time). 25GSPPS/CH(equivalent)			
	Record length	Long Memory Max. 32KBytes / CH			
	Peak detect	Captures & displays as narrow as 10ns GLITCH			
VERTICAL	Frequency bandwidth	DC-80MHz(40MHz at 2mV/div)	DC-150MHz(40MHz at 2mV/div)	DC-250MHz(60MHz at 2mV/div)	
	Input Channel	CH1, CH2			
	Volts/Div	2mV/div ~ 5V/div			
	Input Impedance	1Mohm ± 1.5% // Approx. 16pF			
	Max. Input volt	400V(DC+AC Peak)(AC <1k.Hz)			
	Accuracy	± 3%			
	Input coupling	DC, AC, GND			
	Rising time	Approx. 3.5ns	Approx. 2.3ns	Approx. 1.4ns	
	MATH	Arithmetic(ADD, SUBTRACT, INVERSION) FFT : Hamming, Hanning and Rectangular Window Pass-Fail : Editable waveform zone			
HORIZONTAL	Time/Div	Equivalent : 2ns/div ~ 0.1µs/div Real time : 0.25µs/div ~ 0.1 s/div Roll mode : 0.2s/div ~ 5s/div			
	Resolution	80ps			
	Accuracy	0.01%			
	Pre trigger	Max. 10div			
	Magnification	ZOOM IN / OUT			
TRIGGER	Mode	AUTO, NORMAL, SINGLE			
	Coupling	DC, AC, LF REJECT, HF REJECT			
	Type	Edge, TV			
	Slope	Rising, Falling			
	Level	Manual setting or Automatic 50% setting			
	Source	CH1, CH2, EXT, LINE			
	Sensitivity	TRIGGER	FREQUENCY	SENSITIVITY	
				5mV ~ 5V/div	2mV ~ 2V/div
		INTERNAL (CH1, CH2)	DC ~ 10MHz	0.5div	0.5div
			10MHz ~ 80MHz	1.5div	1.5div
EXTERNAL	80MHz ~ MAX. BW	2.0div	(at 10MHz ~ 40/60MHz)		
	DC ~ MAX. BW	0.2Vp-p(0.5Vp-p at 150MHz ~ 250MHz)			
DISPLAY	5.7" Color LCD 320 × 3(R.G.B) × 240 CCFL Backlight				
MENU	Display	Type : Dots, Vectors Format : X-Y, Y-T GRID : Full, Cross, Board Contrast : Control possible			
	Save/Recall	10 Setups, 10 Waveforms This function is able to save waveform and setting state of present working environment and recall by the user. Factory setup and recall			
	Utility	Self Calibration System condition			
	Cursor	Type : time, frequency, voltage Source : CH1, CH2			
	Acquire	Peak detect : 5µs/div ~ 5s/div (ON/OFF) Average : 2 ~ 128 Persistence : 0.25µs/div ~ 0.1s/div(ON/OFF)			
	Measure	Max. 10 parameter auto measurement (pk-pk, RMS, Mean, Frequency, Rising time, Falling time, Period, Positive width, Negative width, Duty)			
HOT-KEY	Auto Set	Vertical, Horizontal & Trigger setting			
	Run/Stop	Waveform hold			
	Single	Bandwidth 20MHz			
	Hardcopy	Hardcopy through printer port or RS-232C port for thermal printer			
INTERFACE	RS-232C	Flow control : XON / XOFF, HARDWARE DATA BIT : 8, 7 STOP BIT : 1 PARITY : NONE, EVEN, ODD BAUD RATE : 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200			
	SPP	Standard Parallel Port, PCL 3 support Printer(Hardcopy)			
	USB	Ver. 1.1			
POWER	Power supply	90V AC ~ 250V AC			
	Frequency	48Hz ~ 440Hz			
	Power consumption	35W			
WEIGHT	Approx 5.5kg				
SIZE	338(W) × 167(H) × 370(L)mm				
EMC	CE(EN 61326)				
SAFETY	CE(EN 61010-1), meet UL 3111-1				
AMBIENT CONDITION	Temperature Range for Rated Operation	+10°C to + 35°C (+50°F to + 95°F)			
	Max. Ambient Operating Temperature	0°C to + 40°C (+32°F to + 104°F)			
	Max. Storage Temperature	-10°C to + 60°C (+14°F to + 140°F)			
	Humidity Range for Rated Operation	45% to 85% RH			
	Max. Ambient Operating Humidity	35% to 85% RH			

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