

## BS8060DTB/BS8100DTB

### 60MHz/100MHz Double Time-Base Oscilloscope

The BS8000DTB (Double Time Base) series has two individual base with a 1mV high vertical amplifier sensitivity. User can use a Zoom display to hold up the second sweep signal thanks to the separate second time base capability. The 2 channel 4 traces display, trigger level lock function and the use of digital control switch are making this series much value added to its' competitors in the marker.



#### Feature:

- High Sensitivity (1mV/Div)
- Digital Code Switch
- B (delay) sweep expand any time segment of A sweep (main)
- B sweep zoom display of view signal
- CE Approved, CATII 600V CE-EMC & LVD

## Specifications

### Vertical System

Sensitivity		5mV/DIV ~ 5V/DIV $\pm 5\%$ (1mV ~ 2mV $\pm 8\%$ ), 1-2-5 step, 10 calibrated steps
Bandwidth(-3dB)	5mV ~ 5V/DIV	DC ~ 100MHz (BS8100DTB) DC ~ 60MHz (BS8060DTB)
	1mV ~ 2mV/DIV	DC ~ 20MHz
Rise Time	5mV ~ 5V/DIV	Approx 3.5ns
	1mV ~ 2mV/DIV	Approx 35n
Overshot		$\leq 8\%$
Input Impedance		1M $\Omega$ $\pm 2\%$ , 25pF
Maximum Input Voltage		400V (DC + AC peak) 1kHz
Operation Mode		CH1, CH2
Coupling Mode		AC, GND, DC
Slope Inverting		CH2 Only

### Trigger System

Trigger Sensitivity (BS8100DTB)	Frequency	INT	EXT
	DC – 100MHz	2 DIV	200mV
Trigger Sensitivity (BS8060DTB)	Frequency	INT	EXT
	DC – 60MHz	2 DIV	200mV
Ext. Trigger Input Impedance	1M $\Omega$ $\pm 2\%$ , approx 35pF		
Ext. Trigger Maximum Input Voltage	400V (DC+AC peak) 1kHz		
Trigger Sources	INT, CH2, LINE, EXT		
Trigger Mode	NORM, AUTO, TV-V, TV-H		
Coupling	AC		
Slope	+/-		

### Horizontal System

Sweep Mode	A, B, B TRIG'D, X-Y, ALT
A Time-base	A: 0.02 $\mu$ s to 0.2 $\mu$ s/DIV $\pm$ 5%, in 21 steps (1-2-5seq) B: 0.05 $\mu$ s to 10 $\mu$ s/DIV $\pm$ 5%, in 8 steps (1-2-5seq)
Sweep Expand	X 10MAG: $\pm$ 5%(0.1, 0.5 $\mu$ s/DIV un-calibrated)
Sweep Var.	$\geq$ 2.5:1, adjustable continuously
Delay Sweep	Continuous or triggered
Delay Time	$\leq$ 1/2.5
Hold-off	Continuous or triggered

### CH1 Output

Output Voltage	20mV/DIV (min.)
Output Impedance	Approximately 50 $\Omega$
Bandwidth	50Hz to 30MHz (-3dB)

### X-Y Mode

Mode	CH1 as X axis, CH2 as Y axis
Sensitivity	Same as the vertical system
X axis Bandwidth	DC: DC ~ 2MHz
X-Y Phase Difference	$\leq$ 3° (DC ~ 100kHz)

### Z Axis System

Input Impedance	Approx 2k $\Omega$
Input Signal	$\pm$ 5V (Low level to intent)
Band Width	DC ~ 2MHz
Maximum Input Voltage	30V (DC + AC peak)

### Calibration Signal

Waveform	Symmetric Square Wave
Amplitude	0.5V $\pm$ 3%
Frequency	Approx. 1kHz
Duty	Min. 48:52

**CRT**

Display Area	8 × 10DIV
Type	6 inch, Rectangle, Inter graduation
Accelerated Voltage	12kV

**Power Source**

Voltage Range	198 to 242V (Switching power supply)
Frequency	50Hz to 60Hz
Power Consumption	55W

**Physical Features**

Weight	7.5kg
Dimensions	150H × 310W × 440D (mm)

**Working Environment**

Working Temperature	0°C ~ 4°C
Working Humidity	40-90%
Storage Temperature	-20°C ~ 70°C
Storage Humidity	35-85% (when temperature > 50°C, less than 70%)

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