

## CA8100 DUAL CHANNEL OSCILLOSCOPE

### Features:

- 100MHz dual channel
- High luminance, internal graticule CRT
- X10 sweep magnification
- ALT triggering function
- VERT trigger
- Trigger hold off adjusting
- TV synchronizing, X-Y mode operation
- Triggering level lock function, automatic synchronizing function
- Z-Axis input
- CH1 output



CA8100

### Specifications

		CA8100
CRT	Type	6" rectangle, internal graticule, 0%, 10% 90% and 100% marks
	Display Area	8 x 10DIV (1DIV=10mm)
	Accelerating Voltage	1.7kV
	Intensity and Focusing	Continuously adjustable at front panel
VERTICAL SYSTEM	Trace Rotation	Adjustable at front panel
	Sensitivity and Accuracy	5mV/DIV ~ 5V/DIV +/-5%, 10 calibrated steps in 1-2-5 sequence
	Vernier Vertical Sensitivity	Continuously variable to 1/2.5 or less than panel indicate value
	Band Width(-3dB)	DC ~ 100MHz
	AC Coupling	Low limit frequency 10MHz (with reference to 100kHz, 8DIV, frequency response with -3dB)
	Rise Time	Approx. 3.5ns
	Input Impedance	Approx. 1MOhm /25pF
	DC Balance Shift	+/-1DIV
	Linearity	< 0.1 DIV of amplitude change when waveform of 2DIV at graticule center is moved vertically
	Vertical Operation Mode	CH1/ CH2 / DUAL (ALT/CHOP)/ ADD/ CH2 Inverse
	Chopping Frequency	Approx. 400kHz
	Input Coupling	AC/GND/DC
Max. Input Voltage	400Vpeak at 1kHz or less( Max effective readout: 40Vpp(14Vrms)/probe set at X1; 400Vpp(140Vrms)/probe set at X10)	
Isolation Between Channels	At 5mV/DIV Range: > 1000:1 at 50kHz	
HORIZONTAL SYSTEM	Sweep Time	50ns - 0.2s/DIV 20 steps in 1-2-5 sequence
	Sweep Accuracy	+/-3%
	Trimming Ratio	≤ 1/2.5 of panel indicated value
	Sweep Magnification	X 10 MAG
	Linearity	+/-5%; X10MAG: +/-10%
	Position Shift Caused by X10MAG	Within 2DIV, at CRT screen center
	Mode	AUTO/NORM/TV
	Trigger Level Lock	Yes
TRIGGER SYSTEM	Source	CH1/CH2/EXT/LINE
	Coupling	AC: 20Hz to full bandwidth
	Trigger Slope	"+" or "-"
	Trigger Sensitivity	AUTO/NORM: INT: 1.5DIV EXT: 0.5V
X-Y MODE OPERATION	External Trigger Input	TV SYNC pulse > 2DIV (EXT: 0.5V) Input impedance: Approx. 1MOhm / 25pF Max. input voltage: 400V (DC + ACpeak); AC frequency < 1kHz
	Input	X-axis: CH1, Y-axis: CH2
	Sensitivity	Same as vertical axis
Z-AXIS INPUT	Band Width(-3dB)	Axis X: DC ~ 1MHz
	Phase Difference	≤ 3° from DC to 50kHz
	Sensitivity	5Vpp (Positive-going signal decreases intensity)
	Frequency Bandwidth	DC ~ 1MHz
CALIBRATION	Input Resistance	Approx. 10kOhm
	Max. Input Voltage	50V (DC+ACpeak, AC frequency ≤ 1kHz)
	Signal	Positive going square wave at 1kHz (2Vpp +/-2.0%)
POWER SOURCE	Duty Cycle	48:52
	Output Impedance	Approx. 1kOhm
		AC110V/220 +/-10%, 50Hz