

DC – 20 MHz, 2 CH, EXT trigger, 3 traces

- 2 mV/div high sensitivity and 20 ns/div sweep rate
- Full NTSC, PAL (SECAM) TV triggering with field and line
- 2% accuracy
- Input connector with probe sensor (Probe with sensor is optionally available)
- 5-digits frequency counter
- Self auto balance adjust function
- Trace rotation function
- Single sweep function



Specifications

■ CRT
Shape 6-inch rectangular, internal graticule CRT
Effective area 8 x 10 div (1 div = 10 mm)
Accelerating voltage Approx. 2 kV
■ Vertical deflection system (Y axis)
Vertical mode CH1, CH2, ADD (CH1 + CH2)
 ALT, CHOP (555 kHz ±1%)
CH1, CH2
Sensitivity 2 mV/div – 5 V/div (1-2-5 sequence in 11 steps)
Variable adjuster 2 mV/div – 12.5 V/div. continuously variable
Accuracy ±2 %
Frequency bandwidth DC – 20 MHz –3 dB
 DC – 10 MHz –3 dB at 2 mV/div
 Note: The lower limit frequency is 10 Hz with AC coupling

Rise time Approx. 17.5 ns
 Note: Calculated from the following formula

$$Tr = \frac{350}{\text{Bandwidth [MHz]}} \text{ [ns]}$$

Input coupling AC, DC, GND
Input RC 1 MΩ ±1.5% // 25 pF ±2 pF
Max. input voltage ±400 V (DC + AC peak)
Polarity switching CH2 only
Probe sense 1:1, 10:1, 100:1
■ Triggering
Trigger mode EDGE, TV
Source VERT, CH1, CH2, EXT, LINE
Coupling AC, DC, HF-REJ, LF-REJ
Slope +, –
Sensitivity

Frequency	CH1, CH2	EXT
DC – 5 MHz	0.4 div	80 mV
5 MHz – 20 MHz	1.0 div	200 mV or more

HF-REJ: Attenuates at 10 kHz
 HF-REJ: Attenuates at 10 kHz or less

EXT TRIG
Coupling DC
Input RC 1 MΩ ±1.5% // 25 pF ±3 pF
Max. input voltage ±400 V (DC + AC peak)
TV trigger
Format NTSC, PAL (SECAM)
Trigger mode TV-V (ODD, EVEN, BOTH), TV-H
NTSC 5 H – 2000 H
PAL (SECAM) 2 H – 1997 H

■ Horizontal deflection system (X axis)
Display (HORIZ DISPLAY) A, X-Y
Sweep mode AUTO NORMAL SINGLE
Sweep rate 200 ns/div – 500 ms/div (1-2-5 sequence in 24 steps)
Max. sweep rate 20 ns/div
Hold-off time Variable
Sweep magnification X10
■ X-Y operation
X axis CH1
Sensitivity Same as CH1
Accuracy ±4%
Frequency bandwidth DC – 1 MHz -3 dB
Y axis CH1, CH2, ADD
Phase difference Within 3° (DC – 20 kHz)
■ CAL (calibration signal)
Waveform Square wave
Frequency 1 kHz ±0.1%
Duty ratio 49% – 51%
Output voltage 0.6V ±1%
■ Cursor measurement
Counter Time difference (Δt), voltage difference (ΔV)
Accuracy 5-digit (A trigger source)
 ± 0.01%
Frequency range 2 Hz – 20 MHz
■ Panel setting A panel setup just before power off is saved
Backup time Approx. 30,000H (at 25°C)
■ Power supply
Voltage range AC 100 V, 110 – 120 V, 220 V, 230 – 240 V
Frequency range 50 Hz – 60 Hz
Power consumption Max. 60 VA
Weight and dimensions
Weight Approx. 8.5 kg (without accessories)
Dimensions Approx. 272W x 152H x 390L mm
■ Environmental conditions
Performance guaranteed temperature +10 – +35°C
Operating range
Temperature 0 – +40°C
Humidity 90% RH (0 – 40°C)
Storage range
Temperature –20 – +40°C
Humidity 80% RH (-20 – +40°C)
■ Accessories Power cord (x1), probe (x2), panel cover (1), operation manual (x1)