

DC – 100 MHz, 3 CH, 8 traces

- **Save/recall of up to 32 panel settings (SS-7811 only)**
- **Quick auto setup**
- **Full NTSC, PAL (SECAM) TV triggering with field and line**
- **2 mV/div high sensitivity and 2 ns/div sweep rate**
- **5-digits frequency counter**
- **Cursor function**
- **50 mV, 100 mV, 500 mV/div CH3 ranges**



Specifications

■ CRT

Shape 6-inch rectangular. internal graticule, meshless
 CRT with scale illumination
Effective area 8 x 10 div (1 div = 10 mm)
Accelerating voltage Approx. 16 kV
■ Vertical deflection system (Y axis)
Vertical mode CH1, CH2, CH3, 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 – 100 MHz –3 dB
 DC – 50 MHz – 3 dB at 2 mV/div
 Note: The lower limit frequency is 10 Hz with AC coupling

Bandwidth limiter

DC –20 MHz
 Approx. 3.5 ns
 Note: Calculated from the following formula

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

Signal delay time

30 ns or more (on the screen)
Input coupling AC, DC, GND
Input RC 1 MΩ ±1.5% // 20 pF ±2 pF
Max. input voltage ±400 V (DC + AC peak)
Polarity switching CH2 only
Probe sense 1:1, 10:1, 100:1

● CH3

Sensitivity 50 mV, 100 mV, 500 mV/div
Accuracy ±3%
Frequency bandwidth DC – 100 MHz, –3 dB
Input coupling AC, DC
Input RC 1 MΩ ±1.5% // 20 pF ±3 pF
Max. input voltage ± 400 V (DC + AC peak)
Probe sense 1:1, 10:1, 100:1

■ Triggering

● A triggering
Trigger mode EDGE, TV
Source VERT, CH1, CH2, CH3, LINE
Coupling AC, DC, HF-REJ, LF-REJ
Slope +, –
Sensitivity

Frequency	Amplitude
DC – 10 MHz	0.4 div
10 MHz – 100 MHz	1.0 div

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

● B triggering

Source CH1, CH2, CH3
Coupling AC, DC, HF-REJ, LF-REJ
Slope +, –
Sensitivity

Frequency	Amplitude
DC – 10 MHz	0.4 div
10 MHz – 100 MHz	1.0 div

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

● 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

AUTO SETUP

Input channel CH1, CH2
Frequency range 50 Hz – 50 MHz

■ Horizontal deflection system (X axis)
Display (HORIZ DISPLAY) A, ALT, B, X-Y

● A sweep

Sweep mode AUTO NORMAL SINGLE
Sweep rate 20 ns/div – 500 ms/div (1-2-5 sequence in 24 steps)
 2 ns/div
 Variable

Max. sweep rate

Hold-off time

● B sweep

Delay TRIG'D DELAY, RUNS AFTER DELAY
Sweep rate 20 ns/div – 5 ms/div (1-2-5 sequence in 18 steps)
 2 ns/div

Max. sweep rate

Delay time

Range 0.2 div – 10.2 div of A sweep

Delay jitter 1/20000 at 1 ms/div of A sweep, 500 ns/div of B sweep

● Sweep magnification

■ X-Y operation

● X axis CH1
Sensitivity Same as CH1
Accuracy ±4%
Frequency bandwidth DC – 2 MHz -3 dB
● Y axis CH1, CH2, CH3, ADD
 Within 3° (DC – 200 kHz)

■ CAL (calibration signal)

Waveform Square wave

Frequency 1 kHz ±0.1%

Duty ratio 49% – 51%

Output voltage 0.6V ±1%

■ Cursor measurement Time difference (Δt), voltage difference (ΔV)

■ Counter 5-digit (A trigger source)

Accuracy ±0.01%

Frequency range 2 Hz – 100 MHz

■ Save/recall (SS-7811 only)

Backup time Max. 32 panel settings

Approx. 30,000H (at 25°C)

■ Power supply

Voltage range AC 100 V – 120 V, 200 V – 240 V

Frequency range 50 Hz – 400 Hz

Power consumption Max. 110 VA

■ Weight and dimensions

Weight Approx. 7.5 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), fuse (x2), operation manual (x1)