

CS-406 SPECIFICATIONS

Trigger Coupling :

- AUTO : Sweep free-runs in absence of suitable trigger signal.
- NORM : Sweep triggered only by adequate trigger signal.
- TV-V : Video vertical sync pulses are selected. Also usable for high frequency reject.
- TV-H : Video horizontal sync pulses are selected. Also usable for low frequency reject.

Trigger Sensitivity :

- AUTO : 1.5 div (internal)
>0.5 Vp-p (external)
100 Hz -40 MHz
- NORM : 1.5 div (internal)
20.5 Vp-p (external)
100 Hz -40 MHz
- TV-V : 1.0 div (internal)
>0.5 Vp-p (external)
DC -1KHz
- TV-H : 1.0 div (internal)
>0.5 Vp-p (external)
1KHz-100 KHz

Maximum External Trigger Voltage :

300 V (de + ac peak).

FREQUENCY COUNTER

DISPLAY :

5digits, 0.36" Red LED, Display at "Hz" or "KHz" unit, Auto range.

GATE TIME :

Auto Select : form 10S to 0.25S According to the frequency of the input signal Auto select.

Auto Detect : The gate time LED will "FLASH" when with input and will "OFF" without input signal, Auto Detect,

Auto re-set : The data will hold 10S Max. after the input signal is stop and then Auto re-set,

RESOLUTION : 0.001Hz to 1KHz according to the frequency of the input signal. Auto Select.

MAX.COUNTER RANGE : 0.1Hz to 50MHz

ACCURACY : + 0.01% + 1digit or 1/99999 +1idgit

TIME BASE : 18.432MHz + 10ppm(23}C ± 5}C)

SENSITIVITY :

NOTE : 1.The counter must be set at "DC COUPLING" operation when the input signal is less than 10Hz.
2.The counter are operated by the "Triggle Sourace" CH1, CH2 or EXT. But can not by "ALT" source.

MODE	RANGE	SENSITIVITY
INT	2Hz~40MHz	<input type="checkbox"/> 1DIV
	1Hz~45MHz	<input type="checkbox"/> 2DIV
	0.2Hz~50MHz	<input type="checkbox"/> 3DIV
EXT	10Hz~50MHz	<input type="checkbox"/> 200mVrms
	1Hz~50MHz	<input type="checkbox"/> 400mVrms

OTHER SPECIFICATIONS

Cal/Probe Compensation Voltage : 2 V p-p +3% square wave, 1KHz nominal.

CH 2 (Y) Output : 50 mV/div (nominal into 50 ohm load).

Output Impedance : Approximately 50 ohms.

Frequency Response : 20 Hz to 30 MHz, -3 dB.

Power Requirement : 10~130 VAC or 200-260 VAC, 50/60 Hz, 50 watts.

Dimensions (H x W x D) :

5.2" x 12.8" x 15.7"

(132 x 324 x 398 mm).

Weight : 18.7 lbs (8.5 kg).

Environment :

Within Specified Accuracy : +10} to +35} C, 10-80%

Full Operation : 0} to +50} C, 10-80% relative humidity.

Storage : -30} to +70} C, 10-90% relative humidity.

ACCESSORIES SUPPLIED :

Two Switchable X1/X10 Probes.

Instruction Manual.

AC Line Cord.

FS-409 SPECIFICATIONS

CRT

Type : 6-inch rectangular with integral graticule,
P31 phosphor.

Display Area : 8 x 10 div (i div = 1 cm).

Accelerating Voltage : 2 kV.

Phosphor : P31.

Trace Rotation : Electrical, front panel adjustable.

VERTICAL AMPLIFIERS (CH 1 and CH 2)

Sensitivity : 5 mV/div to 5 V/div, 1 mv/div to 1 V/div
at X5 MAG.

Attenuator : 10 calibrated steps in 1-2-5 sequence.
Variable control provides fully adjustable
sensitivity between steps; range 1/1 to at
least 1/3.

Accuracy : $\pm 3\%$, 5 mV to 5 V/div; 5%, at X5 MAG.

Input Resistance : $1\text{ M}\Omega \pm 2\%$.

Input Capacitance : $25\text{ pF} \pm 10\text{ pF}$

Frequency Response :

5 mV/div to 5 V/div:

DC to 40 MHz (-3 dB).

X5 MAG :

DC to 10 MHz (-3 dB).

Rise Time :

8.8 nS; 35 nS at X5 MAG.

Overshoot : Less than 5%.

Operating Modes :

CH 1 : CH 1, single trace.

CH 2 : CH 2, single trace.

DUAL : CH 1 and CH 2, dual trace.

Alternate or Chop selectable at
any sweep rate.

ADD : Algebraic sum of CH 1+ CH 2.

Chop Frequency : Approximately 500KHz.

Polarity Reversal : CH 2 invert.

Maximum Input Voltage : 400 V (dc + ac peak).

HORIZONTAL AMPLIFIER

(Input through channel 1 input)

X-Y mode :

CH 1=X axis.

CH 2 = Y axis.

Sensitivity : Same as vertical channel 2.

Input Impedance : Same as vertical channel 2.

Frequency Response:

DC to 1 MHz(-3 dB).

X-Y Phase Difference : 3° or less at 50 kHz.

Maximum Input Voltage : Same as vertical channel 1.

SWEEP SYSTEM

Operating Modes :

Main Time Base, X-Y Operating.

Main Time Base : 0.1 μ S/div to 2.0 S/div in 1 -2-5
sequence, 23 steps. Variable control provides fully
adjustable sweep time between steps.

Accuracy : $\pm 3\%$, except $\pm 6\%$ on 0.2 S/div and $\pm 20\%$
on 0.1 μ S/div.

Sweep Magnification : X10 $\pm 10\%$.

Holdoff : Continuously adjustable for main time base f
NORM to 5 times normal.

TRIGGERING

Trigger Modes :

AUTO (free run), NORM, TV-V, TV-H.

Trigger Source :

CH 1, CH 2, Alternate, EXT, LINE.

Slope :

(+)or(-)