SPECIFICATIONS

Cathode Ray Tube

Type: 140CGB31 (Rectangular CRT, internal graticule)

Accelerating voltage: Approx. 6kV

Scale: 8 div x 10 div (1 div = 9.5mm)

Vertical Amplifiers (for both CH1 and CH2)

Deflection Factor: 2mV/div - 10V/div ±3%, at 10 - 30°C, ±5%, at 0-40°C

Attenuator: 2 mV/div to 10V/div in 12 calibrated ranges in 1-2-5 sequence. Variable between ranges, ±5% on all ranges

Input impedance: 1MΩ±2%
Approx. 22pF

Frequency response: DC DC-35MHz (−3dB)
AC 5Hz-35MHz (−3dB)

Risetime: Less than 10 nsec.

Over-shoot: Lees then 3% (at 100kHz square wave)

Cross-talk:

ALT:	−60dB	(at 1 kHz)
CHOP:	−40dB	(at 1 kHz)

Operating modes:

CH1	CH1 only
CH2	CH2 only
DUAL	2-channel
ADD	CH1 + CH2
X-Y	X axis: CH2 Y axis: CH1

Dual-trace changeover: ALT is effected when TRIG SOURCE is in ALT or NORM-CHOP is in NORM and SWEEP TIME/DIV is 0.5ms/div - 0.1μs/div. CHOP is effected (about 350kHz switching) in other modes.

Invert polarity: CH2 only

Maximum input voltage: 500Vp-p or 250V (DC + AC peak)

Signal delay time: Approx. 10 nsec. (on CRT screen)

Horizontal Amplifier (CH2 input)

Operating modes: X-Y changeover with vertical MODE switch
CH1 Y axis
CH2 X axis

Deflection Factor: Same as vertical (CH1)

Input impedance: Same as vertical (CH1)

Frequency response: DC DC-2MHz (−3dB), 3MHz (−6dB)
AC 5Hz-2MHz (−3dB), 3MHz (−6dB)

X-Y phase difference: Less than 3° at 100kHz

Sweep Circuit

Sweep system:

SINGLE	Single sweep
NOR	Triggering sweep
AUTO	Triggering sweep and auto free-run sweep at no-signal time.
FIX	Automatically fixes levels at center of trigger signal.

Sweep time: 0.1 μs/div to 0.5 s/div in 21 calibrated ranges, in 1-2-5 sequence. Variable between ranges. Sweep time accuracy: ±3%

Magnifier: 5 times ±5%

Linearity: Better than ±3% (10% at X5 MAG)

Triggering

Source (Internal): ALT
CH1
CH2

Source (External): EXT 1/10
EXT 1

External triggering input voltage: 50V (DC+AC peak)

Type: SINGLE, NORM, AUTO Manual sync
FIX Auto sync

Slope: Positive or negative

Coupling: AC, LF Rej, HF Rej, VIDEO, DC
LINE and FRAME are automatically switched by SWEEP TIME/DIV
LINE (VIDEO—Line):
0.1 μs/div ~ 50μs/div
FRAME (VIDEO—Frame):
0.1ms/div ~ 0.5s/div

Sensitivity:

Triggering Mode in SINGLE or NORM

Coupling	Bandwidth (Hz)	Minimum Sync Voltage		
		INT (div)	EXT 1/10 (Vp-p)	EXT1 (Vp-p)
AC	50 ~ 15M 10 ~ 40M	0.5 0.8	3 3	0.3 0.3
VIDEO	VIDEO	1	5	0.5
DC	DC ~ 15M DC ~ 40M	0.5 0.8	3 3	0.3 0.3

HF REJ: Attenuate above 100 kHz
LF REJ: Attenuate below 10 kHz

TRIGGERING MODE	Bandwidth (Hz)	Minimum Sync Voltage		
		INT (div)	EXT 1/10 (Vp-p)	EXT1 (Vp-p)
AUTO	100 ~ 15M 50 ~ 40M	0.5 0.8	3 3	0.3 0.3
FIX	100 ~ 15M 50 ~ 40M	0.5 0.8	3 3	0.3 0.3

HOLDOFF: NORM-MAX (Continuous variableness more than ten times)

Calibrating voltage: 0.1Vp-p ±3%, positive polarity, reference level 0V (1kHz ±3%)

Intensity Modulation

Input voltage: TTL level (more than 2.5Vp-p)
Input impedance: 12kΩ
Bandwidth: DC-5MHz
Maximum input voltage: 50V (DC+AC peak)

Trace rotation: Trace angle is adjustable by panel surface adjuster.

Power Requirements

Power supply voltage: AC 100/117/220/240V ±10%, 50/60Hz

Power consumption: Less than 45W

Dimensions:
CS-1577A
Width 260mm (277mm)
Height 190mm (204mm)
Depth 375mm (440mm)
Width 260mm (260mm)

Weight: CS-1577A 9.1kg

Accessories:
Probe (PC-22) 2
Attenuation 1/10
Input impedance 10MΩ, 18pF or less
Instruction manual 1
Replacement fuse:
0.5A 2
0.8A 2