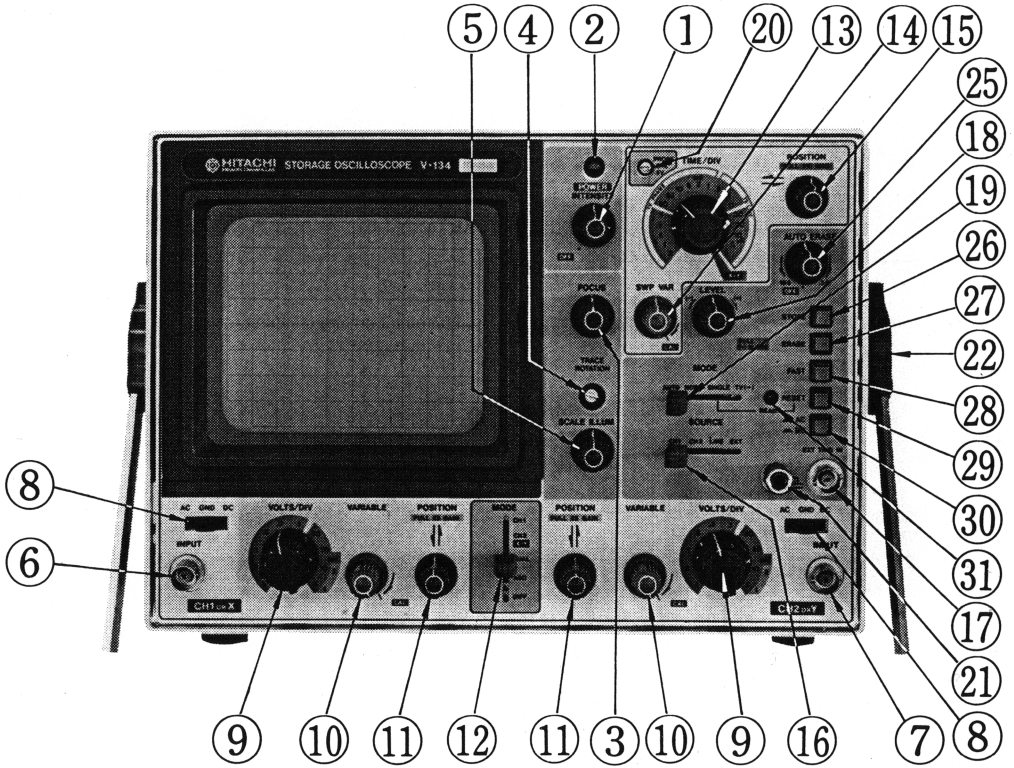
5. PANEL DESCRIPTIONS



Front View

11. SPECIFICATIONS

o **Vertical deflection**

Input sensitivity

x1 5mV/div to 5V/div (1,2,5-step 10 stages)
x5 1mV/div to 1V/div (1,2,5-step 10 stages)

Sensitivity accuracy rate

x1 ± 3%
x5 ± 5%

Attenuates continuously to 2.5 times or more of the indicated value in each range

Frequency bandwidth (8 div Reference)

x1 DC to 10MHz ($^{+1}_{-3}$ dB)

AC 20Hz to 10MHz ($^{+1}_{-3}$ dB)

x5 DC to 7MHz ($^{+1}_{-3}$ dB)

AC 20Hz to 7MHz ($^{+1}_{-3}$ dB)

Rise time

x1 approx. less than 35ns
x5 approx. less than 50ns

Over shoot

x1 ± 3% (at 100 kHz Rise time more than 100ns.)
x5 ± 5% (at 100 kHz Rise time: ore than 100ns.)

Input impedance

Direct 1MΩ, approx. 30pF

Maximum input voltage

Direct $500V_{p\text{-}p}$ or 300V (DC+ AC peak at 1 kHz)
When using probe 600V (DC+AC peak at 1kHz)

Input coupling

AC-GND-DC

Magnifying function

x5

Operation mode

CH1, CH2, DUAL, ADD, DIFF

Dynamic range

More than 8 div.

Phase shift

Within 3° (DC to 50kHz)

○ **Calibrator**

Waveform

1kHz square wave, within ±10%

Voltage

0.5V ± 3%

○ CRT

CRT

E2827B1 (5"-diameter storage tube)

Recording speed

25 div/ms
50 div/ms (enhanced)

Acceleration voltage

Approx. 2kV

Screen area

8 div x10 div, 1 div 9.5mm

Trace rotation

Provided

Scale illumination

Variable edge lighting

○ **Remote erase**

Starts under non-voltage loope
Erase pulse width 0.5 sec, max.
0 to +5V (DC+AC peak at 1Hz)

○ **Power supply**

VOLTAGE	FUSE
100 V (90 to 110 V)	2A
120 V (108 to 132 V)	2A
220 V (198 to 242 V)	1A
240V (216 to 264 V)	1A

Power supply frequency

50/60Hz

Power consumption

Approx. **65W**

○ **Temperature**

Recommended range: + 10 to +35°C (50 to 95°F)

Operational limit : 0 to 40°C (32 to 104°F)
Durable limit for storing and transportation
-20 to +70°C (-4 to +158°F)

○ **Humidity**

35 to 85 %.

○ **Dimensions**

Approx.
275(W) x190(H) x 400(D) mm (10.8x7.5x15.7 inch)
(Dimension of cabinet)

○ **Weight**

Approx. 10.5 kg (23.1 lb.)

○ **Horizontal deflection**

Sweep mode

AUTO, NORM, SINGLE, TV(-)

Sweep time

2μ s/div -2s/div(1-, 2-, 5-step 19 stages)

Maximum sweep time

200ns (at MAG x10)

Sweep variable

2.5 times or more

Sweep time accuracy

± 3% (at x1)
± 5% (at x10 MAG)

Sweep magnification

x10

Time linearity

±3% (at x1)
±5% (at x10MAG)

Position adjustment

Possible

○ **Triggering**

Coupling

AC, DC

Triggering polarity

+, -

Triggering sensitivity and frequency

Frequency	Internal	External
DC to 5 MHz	0.5 div.	200 mV
5MHz to 10 MHz	1.0 div.	800 mV

TV-V sensitivity SYNC section more than 1 div or 1 V_{p-p}

External trigger input impedance

Approx. 1MΩ, approx. 30pF

Maximum input voltage

Direct 300V (DC+AC peak at 1 kHz)
At using x10 probe 600V
(DC+AC peak at 1kHz)

o **Z-AXIS brightness modulation**

Voltage

Brightness is reduced with a positive signal of +5V or more

Frequency bandwidth

DC to 2 MHz

Input impedance

Approx. 47 kΩ

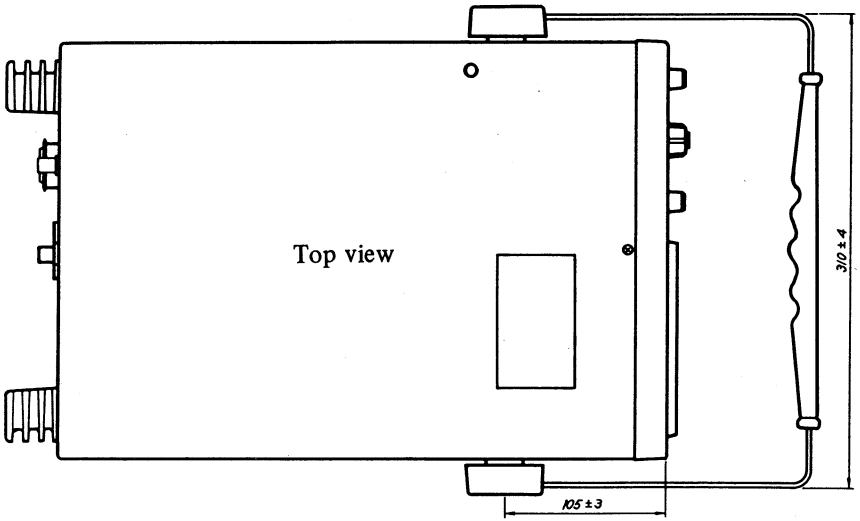
Maximum input withstand voltage

30 V (DC+AC peak)

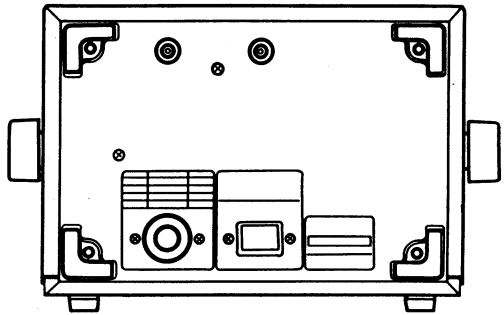
o **X-Y operation**

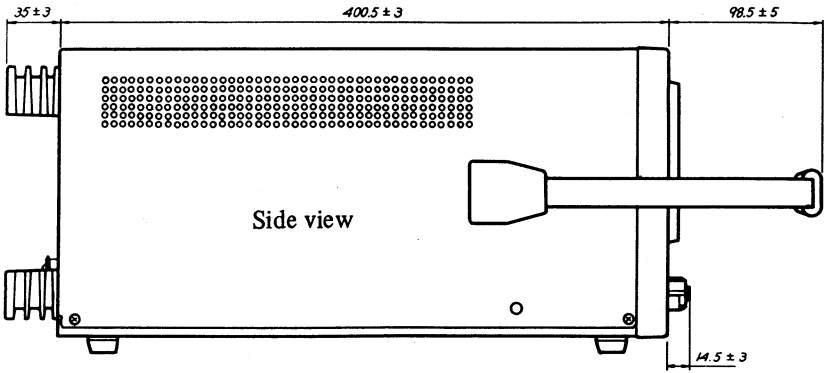
X input	CH1
Y input	CH2
Sensitivity	Same as vertical axis
X frequency bandwidth	DC to 500 kHz (-3dB)

12. EXTERNAL VIEW

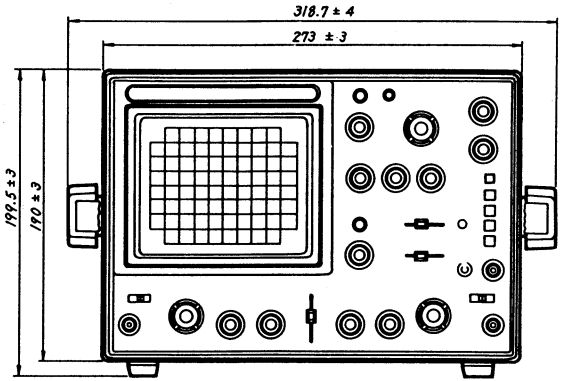


Rear view





Font view



Unit:mm