



FEATURES:

This is a portable-type, advanced-class oscilloscope with a bandwidth of DC to 20 MHz designed with the emphasis on operability and portability and has following features.

- (1) **Wide bandwidth** : The instrument has a bandwidth from DC to 20MHz.
- (2) **High sensitivity** : Sensitivity is 1 mV/div
- (3) **Large 6" screen** : Employment of a large square CRT makes waveforms easier to observe.
- (4) **Internal graticule** : Employment of an internal graticule CRT permits waveforms observation to be made without parallax error.
- (5) **ALT TRIG** : : Even an observation of two waveforms of different frequencies, the waveform of the each channel is stably triggered.
- (6) **TV synchronization** : : Employment of a new TV sync separator circuit allows the instrument to observe TV signals stably.
- (7) **Auto focusing** : : Focusing shift is automatically corrected.

SPECIFICATIONS

CRT

Type: Large 6" screen with internal graticule.

Approximate 12kV [2 KV] acceleration potential.

Phosphor P31 standard

Graticule 8 x10 div(div=10mm) Internal graticule

Focusing: Possible (with automatic focus correction circuit)

Trace rotation: Present

Brightness adjustment: Possible

Z-AXIS INPUT (INTENSITY MODULATION)

DC-coupled, positive-going signal decreases intensity: 5Vp-p signal cause noticeable modulation at normal intensity: DC to 2MHz

Input impedance :33kohm (typ.)[47k ohms(typ.)]

Maximum input voltage :30V (DC + peak AC)

VERTICAL DEFLECTION SYSTEM (2 identical channels)

Bandwidth and rise time

DC to at least 50MHz [20 MHz] and rise time 7ns [17.5 ns] or less. DC to at least 7 MHz and rise time 50ns or less at magnifier extends. The AC coupled lower-3dB point is 10 Hz or less.

Deflection factor

5mV/div to 5V/div in 10 calibrated steps in a 1-2-5 sequence. Uncalibrated continuous

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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IT-2013, Ramchandrapura Industrial Area,
Sitapura Extension, Jaipur-302022, India.



info@tesca.in
www.tescaglobal.com



control extends deflection factor to at least 12.5Volts per division in the 5 Volts/div position.
 ×5 magnifier increases sensitivity of each deflection factor setting to 1mV/div.

Accuracy : ±3%

Additional error for magnifier :±2%

Display modes :

CH1, CH2 (normal or invert), Alternate, Chopped (approximate 250 kHz), Added

Input impedance : Approximately 1 M2 in parallel with 25pF

Maximum input voltage : 300V (DC+ peak AC) or 500 Vp-p AC at 1 kHz or less

Input coupling : AC, GND, DC

HORIZONTAL DEELECTION SYSTEM

Time base

0.2us/div to 0.2s/div in 19 calibrated steps in a 1-2-5 sequence. Uncalibrated continuous control extends deflection factor to at least 0.5 seconds per division in the 0.2 sec/div position. x10mag extends maximum sweep rate to 20 ns/div [100ns/div].

Accuracy : ±3%

Additional error for magnifier : ±2%

GENERAL SPECIFICATION

TRIGGERING SYSTEM

Trigger modes : Automatic, Normal, TV (TV-H or TV-V)

Trigger source : Internal (CH1, CH2 V-MODE), Line, External

Trigger slope : +,-

TV sync polarity :TV (-)

Triggering sensitivity and frequency

	Internal (V-MODE)	External
20Hz-5MHz[20Hz-2MHz]	0.5div (2.0 div)	200mV
[2MHz-20MHz]	1.5 div (3.0 div)	800mV

TV-V sensitivity : SYNC section less 1 div or 1V

AUTO low band : Approximately 25Hz

Trigger coupling : AC: 20Hz to full brand width

External trigger input impedance : Approximately 1 M2 in parallel with 30 pF

Maximum input voltage : 300V (DC+AC peak)

ALT MAG : Present

X-Y OPERATION (CH; Horiz, CH2; Vert)

Deflection factor : Same as vertical deflection

X-bandwidth : DC to at least 500 KHz

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Phase error : 3°C or less from DC to 50 kHz

CALIBRATOR

An approximate 1 kHz frequency 0.5V (±3%) square wave.

SIGNAL OUTPUT

CH1 VERT SIGNAL OUTPUT

Output voltage is at least 20 mV/div into a 50 ohm load.

Bandwidth is 50 Hz to at least 5 MHz

POWER SUPPLY

VOLTAGE (50Hz)	FUSE
220V (198-242V)	0.5A

Power supply frequency : 50 Hz

Power consumption :

Approx. 35W [30W]

Max. 40 W at 120V 60Hz

ENVIRONMENT

- Limit of operation temperature : 0-40°C
- Limit of operation humidity : 35-85%
- Rated range of use temperature : 10-35°C
- Rated range of use humidity : 45-85%
- Storage and transport temperature : -20-70°C

DIMENSIONS AND WEIGHT

Approx. 310 (W) x 130 (H) x 370(D) mm

12.4(W) x5.2(H) x14.8(D) inch

APPROX>6.5Kg (14.6 lbs) [6Kg(13.5 lbs)]

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