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# LeCroy Digital Oscilloscopes

*Get the Complete Picture*

**9350C**

**9354C**

**9370C**

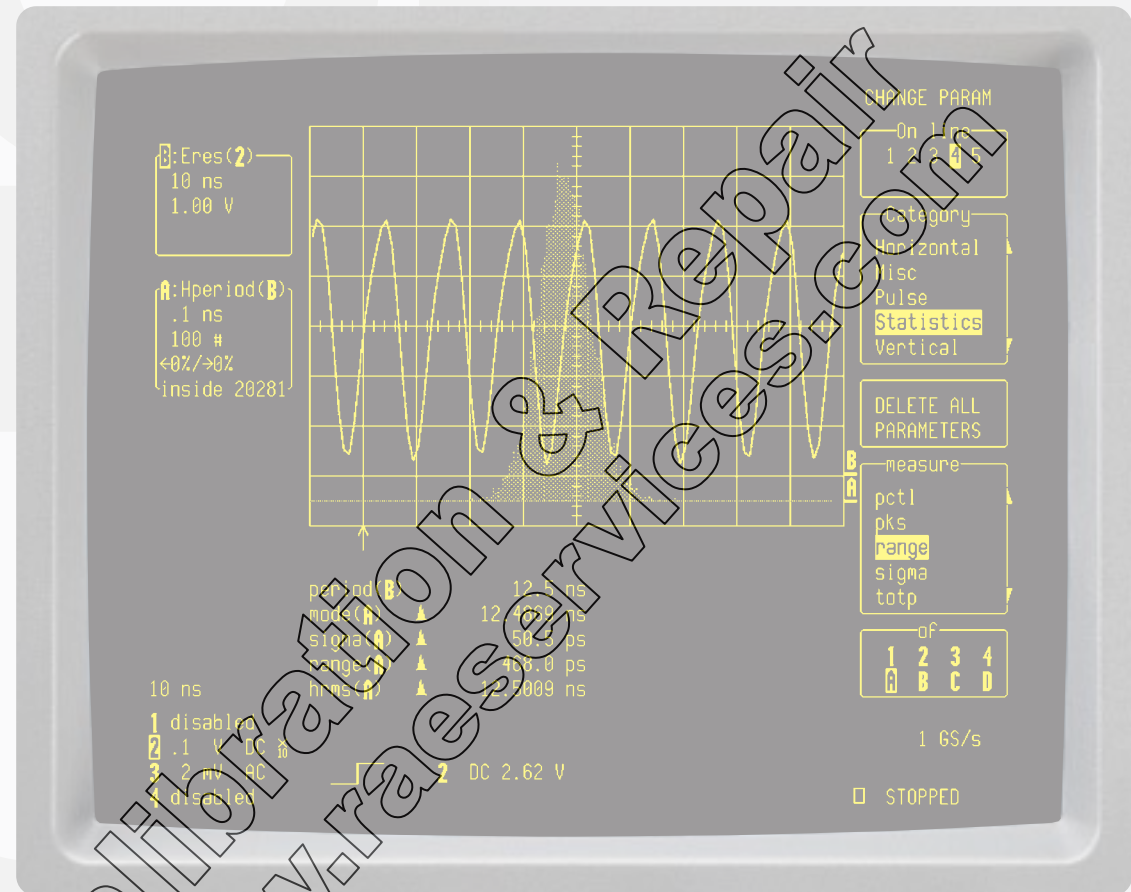
**9374C**

**9384C**

**Datasheet**

## LEADING SPECIFICATIONS

- **500 MHz and 1 GHz Bandwidth**
- **2 GS/s and 4 GS/s Max. Sample Rate**
- **Two and Four Channels**
- **Memory lengths to 8M points**
- **8-bit vertical resolution, 11 with ERES option**
- **Floppy Disk and Centronics Port standard**
- **Internal Printer option**
- **Histogram and FFT Signal Processing options**
- **Innovative Peak Detect**
- **Glitch, Pattern, Qualified, Interval, Dropout, TV, and Exclusion Triggers**



Digital oscilloscopes from LeCroy are designed to save engineers valuable time in troubleshooting and problem-solving.

Each oscilloscope is an integrated and powerful system providing the capability to:

- **Capture** fast signals with high resolution for longer time intervals

- **View** data like never before, giving you more information more quickly, with a large CRT and advanced zooming techniques

- **Analyze** your signal to get answers quickly and more accurately with a powerful processing system and math packages

NIST, ISO, IEC, ANSI, NCSL, MIL-STD by [www.raeservices.com](http://www.raeservices.com)

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## BANDWIDTH

The LeCroy DSOs open up new horizons for engineers and scientists at the leading edge of technological developments. With 500 MHz (935xC) and 1 GHz (937xC, 9384C) bandwidth, long acquisition memories and a powerful trigger system, it is now possible to reveal previously hidden waveform details. Narrow glitches are more accurately defined; risetime measurements below 1 ns are more precise; and high frequency content, filtered out in lower bandwidth systems, is retained, thereby preserving signal amplitudes and overall signal integrity.

## SAMPLE RATE

These LeCroy DSO's sample simultaneously on all channels at 500 MS/s (935xC, 937xC) and 1 GS/s (9384C). Thus, they are ideal for demanding high-speed applications. In addition, two channels can be combined to provide a sample rate of 1 GS/s (935xC, 937xC) and 2 GS/s (9384C), or 2 GS/s (9354C, 9374C) and 4 GS/s (9384C) in single channel mode. Finest horizontal resolution and accuracy are assured by higher sample rates. This is especially critical in digital design where unpredictable circuit behavior needs to be identified and analyzed in detail to be fully understood. Together with this excellent single shot performance the LeCroy oscilloscopes also provide a sample rate equivalent to 10 GS/s for repetitive signals. The innovative peak-detect mode enables glitch capture even at the slowest time settings without loss of precision.

## ACQUISITION MEMORY

Channel record lengths of 50k, 100k, 500k, 1M and 2M are available on the LeCroy oscilloscopes. The memory power is revealed when the user seeks to sample at the highest speed over many timebase settings. DSOs with less memory may boast a high sample rate for short waveforms, but only LeCroy's long memory oscilloscopes deliver high sample rates for long waveforms. To exploit this capability to its fullest, the long memory version combines its channel acquisition memories to give the user up to 8 million sample points, thereby providing the waveform detail required on long and complex signals.

## ADVANCED PEAK DETECT SYSTEM

The 93xxC series offers an innovative peak detect capture mode. This captures fast glitches by running the ADCs at a high sampling rate even at slow time base settings thereby capturing signal details that might have been missed due to under-sampling.

## SMART TRIGGER™ SYSTEM

SMART Trigger functions including Glitch, Pattern, Interval, Exclusion, TV Dropout, and State-of-Edge Qualified triggers are available. Pre- and Post-trigger delay are fully variable. Time and Events Holdoff are also included.

## ACQUISITION SYSTEM

**Bandwidth (-3 dB):**  
935xC:

@ 50 Ω: DC to 500 MHz

100 mV/div: 400 MHz

50 mV/div and above: 350 MHz

937xC/938xC:

@ 50 Ω: DC to 1 GHz 10 mV/div and above.

**Bandwidth (-3 dB):**

@ 1 MΩ: DC to 500 MHz typ. at probe tip with optional 1 GHz FET probe for 935xC and with PP005 supplied as standard for 937xC and 9384C.

**No. of Channels:**

4 (9354C/9374C/9384C) and

2 (9350C/9370C)

**No. of Digitizers:**

4 (9354C/9374C/9384C) and

2 (9350C/9370C)

**Sensitivity:**

935xC:

2 mV/div to 5 V/div, fully variable

937xC/9384C:

2 mV/div to 1 V/div, 50 Ω fully variable.

2 mV/div to 10 V/div, 1 MΩ fully variable.

**Scale Factors:** A wide choice of probe attenuation factors are selectable.

**Offset Range:**

935xC: 2.0 - 9.9 mV/div: ±120 mV

10.0 - 199 mV/div: ±1.2 V

0.2 - 5.0 V/div: ±24 V

937xC/9384C:

2.0 - 4.99 mV/div: ±400 mV

5.00 - 99 mV/div: ±1 V

0.1 - 1.0 V/div: ±10 V

10.0 - 199 mV/div: ±1.2 V

(1 MΩ only).

± 20 V across the whole sensitivity range when using the AP020 FET probe.



**AP015 Current Probe, 50 MHz bandwidth**

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**DC Accuracy:** 1% typical.  
**Vertical Resolution:** 8 bits.  
**Bandwidth Limiter:**  
 935xC: 30 MHz user selectable.  
 937xC/9384C:

25 MHz or 200 MHz  
 user selectable.

**Input Coupling:** AC, DC, GND.

**Input Impedance:**

935xC: 10 M $\Omega$ // 15 pF typical, system capacitance at probe tip using PP002 probe, or 50 $\Omega$   $\pm$  1%

937xC/9384C: 10 M $\Omega$ // 11 pF typical, system capacitance at probe tip using PP005 probe, or 50 $\Omega$   $\pm$  1%

**Max Input:**

935xC: 1 M $\Omega$ : 250 V (DC+peak AC  $\leq$ 10 kHz)  
 50  $\Omega$ :  $\pm$ 5 V DC (500 mW) or 5 V RMS

937xC/9384C:  
 1 M $\Omega$ : 400 V (DC + peak AC  $\leq$ 10 kHz) or 5 V RMS  
 50  $\Omega$ :  $\pm$ 5 V DC (500 mW) or 5 V RMS

## TRIGGERING SYSTEM

**Trigger Modes:** Normal, Auto, Single.

**Trigger Sources:** CH1, CH2, CH3, CH4, External, Line, Slope, Level and Coupling are unique to each source.

**Slope:** Positive, Negative.

**Coupling:** AC, DC, HF, LFREJ, HFREJ.

**Pre-trigger recording:** 0 to 100% of full scale (adjustable in 1% increments).

**Post-trigger:** 0 to 10,000 divisions, (adjustable in 0.1 div increments).

**Holdoff by Time:** 10 ns to 20 s.

**Holdoff by events:** 0 to 99,999,999.

**Internal Trigger Range:**  $\pm$ 5 div.

**EXT Trigger Max Input:**

935xC: 1 M $\Omega$ /16 pF using PP002 probe 250 V DC + peak AC  $<$ 10 kHz)  
 50  $\Omega$   $\pm$  1%:  $\pm$  5 V DC (500 mW) or 5 V RMS.

937xC/9384C:  
 1 M $\Omega$ /11 pF using PP005 probe 400 V (DC + peak AC  $<$ 10 kHz)  
 50  $\Omega$   $\pm$  1%:  $\pm$  5 V DC (500 mW) or 5 V RMS.

**EXT Trigger Range:**  $\pm$  0.5 V ( $\pm$ 5 V with Ext (10).

**Trigger Timing:** Trigger Date and Time are listed in the Waveform Status Menu.

## MAXIMUM SAMPLE RATE

Models	4 Channels in use	2 Channels in use	1 Channel in use
9350C/9370C	n.a	500 MS/s	1 GS/s
9354C/9374C	500 MS/s	1 GS/s	2 GS/s
9384C	1 GS/s	2 GS/s	4 GS/s

## TIME-BASE SYSTEM

**Timebases:** Main and up to 4 zoom traces.

**Time/Div Range:**

1 ns/div to 1,000 s/div

**Clock Accuracy:**  $\leq$ 10 ppm

**Interpolator Resolution:** 10 ps

**Roll Mode:** ranges 500 ms to 1,000 s/div.  
 For  $>$  50k points: 10 s to 1,000 s/div.

## MEMORY PER CHANNEL

Models	Memory per Channel		
	4 Channels in use	2 Channels in use	1 Channel in use
9350C/9370C	n.a	50 kpoints	100 kpoints
9354C/9374C	50 kpoints	100 kpoints	200 kpoints
9384C	100 kpoints	250 kpoints	500 kpoints
9350CM/9370CM	n.a	250 kpoints	500 kpoints
9354CM/9374CM	250 kpoints	500 kpoints	1 Mpoints
9354CTM/9374CTM 9384CM/9384CTM	500 kpoints	1 Mpoints	2 Mpoints
9350CL/9370CL	n.a	2 Mpoints	4 Mpoints
9354CL/9374CL/9384CL	2 Mpoints	4 Mpoints	8 Mpoints

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## SMART TRIGGER TYPES

**Pattern:** Trigger on the logic combination of 5 inputs - CH1, CH2, CH3, CH4, and EXT Trigger, (9350C and 9370C: 3 inputs - CH1, CH2, EXT) where each source can be defined as High, Low or Don't Care. The Trigger can be defined as the beginning or end of the specified pattern.

**Signal or Pattern Width:** Trigger on glitches <2.5 ns (1 ns typical) or on pulse widths between two limits selectable from 2.5 ns to 20s.

**Exclusion Trigger:** Trigger on a signal or period outside two limits selectable from 2.5 ns to 20s.

**Signal or Pattern Interval:** Trigger on an interval between two limits selectable from 10 ns to 20 s.

**Dropout:** Trigger if the input signal drops out for longer than a time-out from 25 ns to 20 s.

**State/Edge Qualified:** Trigger on any source only if a given state (or transition) has occurred on another source. The delay between these events can be defined as a number of events on the trigger channel or as a time interval.

**TV:** Allows selection of both line (up to 1500) and field number (up to 8) for PAL, SECAM, NTSC or non-standard video.

## ACQUISITION MODE

**Random Interleaved Sampling:**  
 9384C (RIS):

For repetitive signals from 1 ns/div to 2 ns/div.

935xC/937xC (RIS):

For repetitive signals from 1 ns/div to 2  $\mu$ s/div. (M, L: signals from 1 ns/div to 5  $\mu$ s/div).

**Random Interleaved Sampling Rate:**  
 10 GS/s

**Single Shot:**

9384C:

For transient and repetitive signals from 2 ns/div (all channels active).

935xC/937xC:

For transient and repetitive signals from 10 ns/div (all channels active).

**Peak Detect:** Captures and displays <2.5 ns glitches or other high-speed events at 400 MS/s. Data points available at the same time.

**Sequence:** Stores multiple events - each of them time stamped - in segmented acquisition memories.

## NUMBER OF SEGMENTS AVAILABLE

Model	Segments
9350C/9354C/9370C/9374C	2-200
9350CM/9354CM/9370CM/9374CM/9384C	2-500
9350CL/9354CL/9370CL/9374CL/9384CL 9354CTM/9374CTM/9384CTM/9384CM	2-2,000

## DISPLAY

**Waveform Style:** Vectors connect the individual sample points, which are highlighted as dots. Vectors may be switched off.

**CRT:** 12.5 x 17.5 cm (9" diagonal) raster.

**Resolution:** 810 x 696 points.

**Modes:** Normal, X-Y, Variable or Infinite Persistence.

**Real-time Clock:** Date, hours, minutes, seconds.

**Graticules:** Internally generated; separate intensity control for grids and waveforms.

**Grids:** 1, 2 or 4 grids.

**Formats:** YT, XY, and both together.

**Vertical Zoom:** Up to 5x vertical expansion (25x with averaging, up to 80  $\mu$ V sensitivity with Advanced Waveform Math option WP01).

9354CL/9374CL: Waveforms can be expanded to give 2-2.5 points/division. Zoom factors up to 400,000x with all channels combined.

9384CL: Waveforms can be expanded to give 0.4-0.5 points/division. Zoom factors up to 2,000,000x with all channels combined.

## MAXIMUM HORIZONTAL ZOOM

Model	Zoom Factor
9350C/9354C/9370C/9374C	2,000x
9350CM/9354CM/9370CM/9374CM	10,000x
9354CTM/9374CTM/9384C	20,000x
9350CL/9354CL/9370CL/9374CL/9384CM/9384CTM	100,000x
9384CL	400,000x

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## AUTOMATED PARAMETRIC MEASUREMENTS AND STATISTICS

The LeCroy DSOs provide more than 40 parametric measurements and their Average, Highest, Lowest values and Standard Deviation. Pass/Fail testing allows up to 5 parameters to be tested against selectable thresholds. Waveform Limit Testing can also be performed using Masks that may be defined inside the instrument. Any failure will activate preprogrammed actions such as Hardcopy, Save, Stop, Beep, GPIB SRQ, or Pulse Out.

## ADVANCED WAVEFORM MATH PACKAGE

The Advanced Waveform Math Package option (WP01) provides Summed and Continuous Averaging, Waveform Math Functions, Extrema and Enhanced Resolution Modes.

Functions can be chained together allowing complex computations. Waveform operations can be performed on live, stored, processed or expanded waveforms. The package is fully programmable over GPIB or RS-232-C. Advanced Math extends the processing capabilities of the oscilloscope and eliminates the need for external computers and controllers for processing.

## SPECTRAL ANALYSIS PACKAGE

The Spectral Analysis Package option (WP02) provides comprehensive frequency analysis capabilities, permitting the system designer to identify characteristics that may not be apparent in the time domain. The Spectral Analysis Package provides a wide selection of windowing functions, as well as averaging in the frequency domain.

Spectrum analysis can be performed on repetitive and single events. Users can obtain time and frequency values simultaneously and compare phases of the various frequency components with each other.

## PARAMETER ANALYSIS PACKAGE

The Parameter Analysis option (WP03) provides extensive analysis capabilities including trending and histogramming of key parameters. Detailed characterization can easily be performed on difficult-to-measure waveform phenomena such as amplitude fluctuation and timing jitter. Live displays include a line graph representing the trend of a parameter or bar chart showing the statistical distribution of selected waveform parameter measurements. Statistical information can be extracted directly from the histograms using automatic statistical measurements including max, min, average, median, std. deviation, etc.

## CURSOR MEASUREMENTS

**Relative Time:** Two cursors provide time measurements with resolution of  $\pm 0.05\%$  full-scale for unexpanded traces up to 10% of the sampling interval for expanded traces. The corresponding frequency value is displayed.

**Relative Voltage:** Two horizontal bars measure voltage differences up to  $\pm 0.2\%$  of full-scale in single-grid mode.

**Absolute Time:** A cross-hair marker measures time relative to the trigger and voltage with respect to ground.

**Absolute Voltage:** A reference bar measures voltage with respect to ground.

## WAVEFORM PROCESSING

With the Optional Advanced Waveform Math Package up to four processing functions may be performed simultaneously. Functions available are: Add, Subtract, Multiply, Divide, Negate, Identity, Summation Averaging, and Sine x/x.

**Average:** Summed averaging of up to 1,000 waveforms in the basic instrument. Up to  $10^6$  averages are possible with the Advanced Math option.

**Extrema :** Roof, Floor, or Envelope values from 1 to  $10^6$  sweeps with the Advanced Math option.

**ERES:** Low-Pass digital filter provides up to 11 bits vertical resolution.

Sampled data is always available, even with the Advanced Math option).

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**FFT:** Spectral Analysis with five windowing functions and FFT averaging with Spectrum analysis option.

**Histogramming and trending:** The Parameter Analysis option permits in-depth diagnostics on waveform parameters.

## ADDITIONAL INFORMATION

### INTERNAL PRINTER

The LeCroy DSOs offer an optional internal printer that can produce a 126 X 90 mm full resolution screen dump in under 10 seconds at the push of a button.

The unique "Strip-Chart" format expands the horizontal axis up to 200 cm per division for viewing fine waveform detail within long memory acquisitions. Most printers and plotters can be driven via GPIB, RS-232-C and standard Centronics interface.

### REMOTE INTERFACING

GPIB and RS-232-C interfaces may be used for full remote control of the instrument. All front panel and internal processing functions can be controlled via either interface.

### INTERNAL MEMORY

**Waveform Memory:** Up to four 16-bit Memories (M1, M2, M3, M4). The length of each memory is equal to the data acquisition memory.

**Processing Memory:** Up to four 16-bit Waveform Processing Memories (A, B, C, D).

**Setup Memory:** Four non-volatile memories. Optional IC Memory Cards, ATA Flash Card, floppy disk or PC Card (PCMCIA) hard drives may also be used for high-capacity waveform and setup storage.

### AUTOSETUP

Pressing Autosetup sets timebase, trigger and sensitivity to display a wide range of repetitive signals (Amplitude 2 mV to 40 V; frequency above 50 Hz; Duty cycle greater than 0.1%).

**Autosetup Time:** Approximately 2 seconds.

**Vertical Find:** Automatically sets sensitivity and offset.

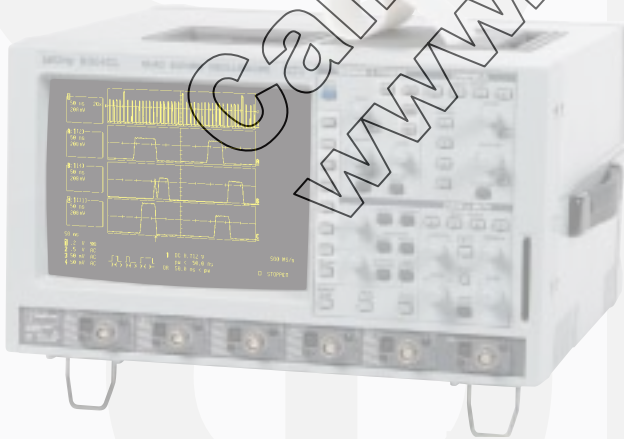
### PROBES

225xC: One PP002 (10:1, 10 M $\Omega$ // 15 pF) probe supplied per channel. DC to 250 MHz typical at probe tip.

937xC/9384C: One PP005 (10:1, 10  $\Omega$ // 11 pF) probe supplied per channel. DC to 500 MHz typical at probe tip.

The 93xxC family is fully compatible with LeCroy's range of FET Probes, which may be purchased separately.

**Probe Calibration:** Max 1 V into 1 M $\Omega$  500 mV into 50  $\Omega$ , frequency and amplitude programmable, pulse or square wave selectable, rise and fall time 1 ns typical. Alternatively the Calibrator output can provide a trigger output or a PASS/FAIL test output.



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## INTERFACING

**Remote Control:** Possible by GPIB and RS-232-C for all front-panel controls, as well as all internal functions.

**RS-232-C Port:** Asynchronous up to 115.2 kb/s for computer/terminal control or printer/plotter connection.

**GPIB Port:** (IEEE-488.1) Configurable as talker/listener for computer control and fast data transfer.

**Centronics Port:** Standard hardcopy parallel interface.

**Hardcopy:** Screen dumps are activated by a front panel button or via remote control. TIFF and BMP format are available for importing to Desktop Publishing programs. The following printers and plotters can be used to make hardcopies: HP ThinkJet, QuietJet, LaserJet, PaintJet, and EPSON printers, HP7400 and 7500 series, or HPGL compatible plotters.

An optional internal high-resolution graphics printer is also available.

## GENERAL

Auto-calibration ensures specified DC and timing accuracy.

**Temperature:** 5°C to 40°C (41°F to 104°F) rated. 0°C to 50°C (32°F to 122°F) operating.

**Humidity:** <80%

**Shock & Vibration:** Conforms to selected sections of MIL-PRF-28800F, Class 3.

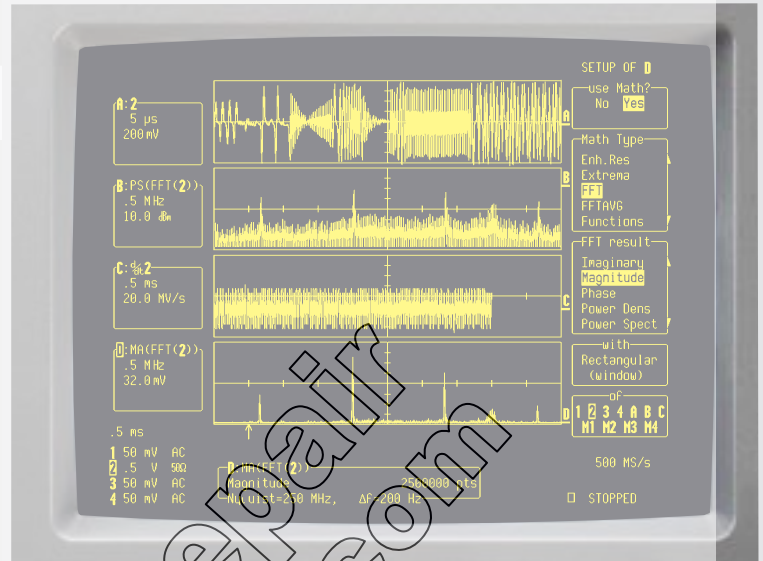
**Power:** 90-250 VAC, 45-66 Hz, 350 W (9384C), 230 W (935xC/937xC).

**Battery Backup:** Front panel settings maintained for two years.

**Dimensions:** (HWD)  
8.5" x 14.5" x 16.25", (210mm x 370mm x 410mm)

**Weight:** 13 kg (28.6 lbs) net, 18.5 kg (40.7 lbs) shipping.

**Warranty:** Three years.



## APPROVALS

**EMC:** Conforms to EN50081-1 (Emissions) and EN50082-1 (Immunity).

**Safety:** The oscilloscope has been designed to comply with EN61010-1 Installation Category (Over-voltage Category) II, Pollution Degree 2.

**UL and cUL approved:** UL standard: UL B111-1; cUL Canadian Standard CSA-C22.2 No. 1010. 1-92.

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## ORDERING INFORMATION

### Digital Oscilloscopes:

500 MHz, 500 MS/s, 50 kpts/ch, 2 or 4 channel DSO  
 500 MHz, 500 MS/s, 250 kpts/ch, 2 or 4 channel DSO  
 500 MHz, 500 MS/s, 500 kpts/ch, 4 channel DSO  
 500 MHz, 500 MS/s, 2 Mpts/ch, 2 or 4 channel DSO

1 GHz, 500 MS/s, 50 kpts/ch, 2 or 4 channel DSO  
 1 GHz, 500 MS/s, 250 kpts/ch, 2 or 4 channel DSO  
 1 GHz, 500 MS/s, 500 kpts/ch, 4 channel DSO  
 1 GHz, 500 MS/s, 2 Mpts/ch, 2 or 4 channel DSO

1 GHz, 1 GS/s, 100 kpts/ch, 4 channel DSO  
 1 GHz, 1 GS/s, 500 kpts/ch, 4 channel DSO  
 1 GHz, 1 GS/s, 2 Mpt/ch, 4 channel DSO

### Included with Standard Configuration:

935xC: 10: 1, 10 MΩ Passive Probe (1 per channel)  
 937xC/9384C: 10:1, 10 MΩ Passive Probe (1 per channel)  
 Operator's Manual  
 Remote Control Manual  
 Hands on Guide  
 Floppy Disk Drive

### PROBES & ACCESSORIES:

1 GHz 10:1 FET Probe  
 15 MHz (±700 V) Differential Probe  
 15 MHz (±1400 V) Differential Probe  
 A Wide Range of Differential Amplifiers and Probes are available  
 50 MHz Probe  
 2.5 GHz, 0.6pF FET Probe (x5)  
 8 GHz, 10:1, 500 Ω Passive Probe (x10)  
 1 GHz, 100:1, 5 kΩ Passive Probe (x10)  
 High Voltage Probe 2 kV, 400 MHz  
 High Voltage Probe 20 kV (40 kV peak), 100 MHz  
 SMD Kit for PP005  
 SMD Kit for AP020  
 Rackmount

### SOFTWARE OPTIONS:

Advanced Waveform Math Package  
 Spectrum Analysis Package  
 Parameter Analysis Package  
 Disk Drive Measurements  
 Supplementary Disk Drive Measurements  
 Disk Drive Failure Analysis

### HARDWARE OPTIONS:

Memory Card Reader with 512K Memory Card  
 512K Memory Card  
 HDD1/HD02 Combination  
 Hard Disk Adapter  
 PCMCIA Hard Disk 170 MB  
 PCMCIA type III External Desktop Adaptor for PC (110V)  
 PCMCIA type III External Desktop Adaptor for PC (220V)  
 4 MB ATA Flash Card (requires HD01 option)  
 Internal Graphics Printer  
 External Clock, Reference Clock and Trigger Comparator  
*Order as model number: 935XC-CKTRIG, 937X-CKTRIG, 938X-CKTRIG*

### MANUALS:

935xC Service Manual  
 937xC Service Manual  
 9384C Service Manual

### WARRANTY & CALIBRATION

Swiss OFMET Standard  
 US NIST Standard  
 5 Year Warranty  
 5 Year Calibration Contract  
 5 Year Warranty and Calibration

### Product Code

9350C/9354C  
 9350CM/9354CM  
 9354CTM\*  
 9350CL/9354CL

9370C/9374C  
 9370CM/9374CM  
 9374CTM\*  
 9370CL/9374CL

9384C  
 9384CM/9384CTM\*  
 9384CL

PP002  
 PP005  
 93XX-CM  
 93XX-PCM  
 93XX-HG

AP020  
 AP030  
 AP032  
 AP015  
 AP54701A\*\*  
 PP063  
 PP064  
 PPE2KV  
 PPE20KV  
 PK006  
 PK106  
 93XX-RM01

93XX-WP01  
 93XX-WP02  
 93XX-WP03  
 93XX-DDM  
 93XX-PRML  
 93XX-DDFA

93XX-MC01/04  
 93XX-MC04  
 93XX-HDD  
 93XX-HD01  
 93XX-HD02  
 93XX-DA01-110  
 93XX-DA01-220  
 93XX-4MBFC  
 93X2-GP01

935xC-SM  
 937xC-SM  
 9384C-SM

93XX-CCOFMET  
 93XX-CCNIST  
 93XX-W5  
 93XX-C5  
 93XX-T5

## Sales and Service Throughout the World

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 Fax (33) 1 69 07 40 42

Germany: Heidelberg  
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 Fax (49) 6221 834 655

Italy: Venice  
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 Fax (39) 41 456 95 42

Japan: Osaka  
 Phone (81) 6 396 0961  
 Fax (81) 6 396 0962

Japan: Tokyo  
 Phone (81) 3 3376 9400  
 Fax (81) 3 3376 9587

Japan: Tsukuba  
 Phone (81) 298 41 5810  
 Fax (81) 298 41 5830

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 Niederlenz  
 Phone (41) 62 885 8050  
 Fax (41) 62 885 8055

Switzerland West: Geneva  
 Phone (41) 22 719 2228  
 Fax (41) 22 719 2230

U.K.: Twyford  
 Phone (44) 1189 344 882  
 Fax (44) 1189 348 900

U.S.A.: Chestnut Ridge  
 Phone (1) 914 578 6020  
 Fax (1) 914 578 5985

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 Microelectronics  
 MATLAB is a registered trademark of The MathWorks, Inc.  
 DeskJet, ThinkJet, QuietJet, LaserJet, PaintJet, HP 7470 and 7550 are registered trademarks of Hewlett-Packard Company.

Datasheet  
 DS93XXC 0198



\* Includes WP01, WP02 and graphics printer

\*\* Required for NIST, ISO, IEC, ANSI, NCSL, MIL-STD by [www.raeservices.com](http://www.raeservices.com)