

Sefram
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SEFRAM 5160DC, 5164DC

Digital Storage Oscilloscopes - 100MHz

A NEW FAMILY OF 100MHz DSO FOR ALL YOUR TESTS IN ELECTRONIC

High performances

With 100 MHz bandwidth and 1Gs/s sampling rate (25Gs/s in ETS), the new Digital Storage Oscilloscopes from SEFRAM will be your ideal companion in all electronic applications: maintenance, production, R&D, education... SEFRAM new DSO are available with 2 or 4 channels.

Complete analysis functions

All DSO from new series offer many analysis functions to make measurement easy:

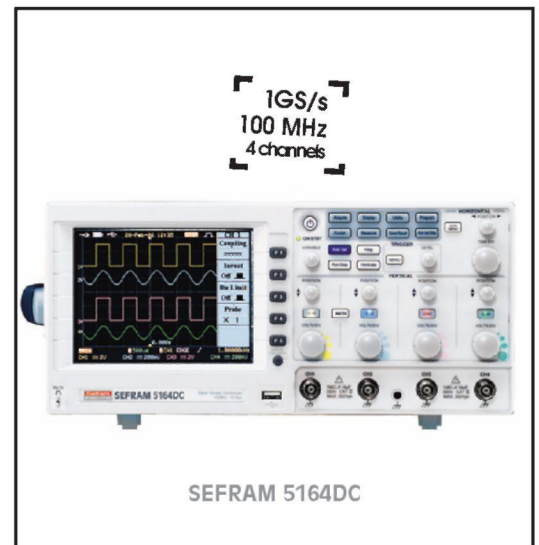
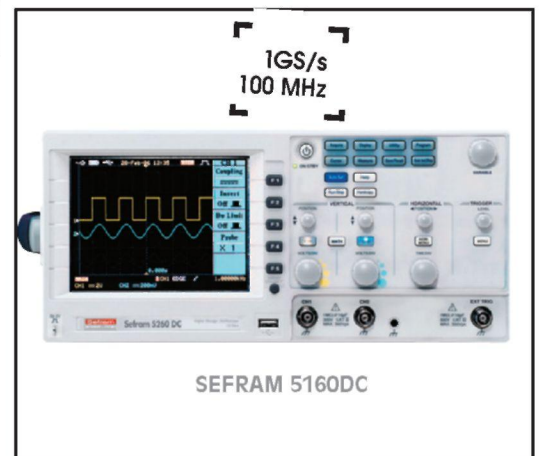
- Autoset
- FFT and Go-No-Go
- 27 automatic measurements (time, voltage, frequency domains)

Easy to use

With a large TFT coloured LCD, combined with multi languages help and menus, the new DSO from SEFRAM will provide an unequalled ease of use. You can access to all functions with the on screen menu, you can save setup (20) and waveform (24).

Interfaces

The new DSO from SEFRAM provides a USB mass storage capability from the front panel (USB 2.0 Host) and programming capability. You can connect memory stick directly and use standard printers for your graphs.



A complete range of DSO

Selection guide	5060D	5062DC	5064DC	5160DC	5164DC	5260DC	5264DC
Display	B&W	coloured LCD	TFTcoloured LCD TFT	coloured LCD TFT	coloured LCD TFT	coloured LCD TFT	coloured LCD TFT
Bandwidth	60MHz	60MHz	60MHz	100MHz	100MHz	200MHz	200MHz
Channels	2	2	4	2	4	2	4
Sampling	100Ms/s	1Gs/s	1Gs/s	1Gs/s	1Gs/s	1Gs/s	1Gs/s
Sampling ETS	25Gs/s	25Gs/s	25Gs/s	25Gs/s	25Gs/s	25Gs/s	25Gs/s
USB interface	option	yes, Host	yes, Host	yes, Host	yes, Host	yes, Host	yes, Host
GPIB interface	option	option	option	option	option	option	option



Specifications	5160DC	5164DC
Channels	2	4
Vertical		
Bandwidth (-3dB)	100MHz	100MHz
Resolution	8 bit	8 bit
Sensitivity	2mV/div to 5V/div	2mV/div to 5V/div
Accuracy	±3%	±3%
Rise time	<3,5ns	<3,5ns
Coupling	AC, DC, GND	AC, DC, GND
Input impedance	1M ohms //16pF	1M ohms //16pF
Max input voltage	300V (DC+AC peak), CAT II	300V (DC+AC peak), CAT II
Bandwidth limit	yes, 20MHz	yes, 20MHz
Horizontal		
Time base	1ns to 10s /div	1ns to 10s /div
Display	window, roll, XY, scan	window, roll, XY, scan
Accuracy	±0,01%	±0,01%
Post trigger	20 div max.	20 div max.
Pre trigger	1000 div.	1000 div.
Acquisition		
Sampling rate	1Gs/s	1Gs/s
Memory (per channel)	25K mots	25K mots
Sampling rate (ETS)	25Gs/s	25Gs/s
Mode	single, peak-peak, average	single, peak-peak, average
Peak detection	10ns	10ns
Average	2, 4, 8, 16, 32, 64, 128, 256	2, 4, 8, 16, 32, 64, 128, 256
Trigger		
Source	CH1, CH2, Line, Ext	CH1, CH2, CH3, CH4, Line
Mode	Auto, normal, single, TV, delayed event, pulse, edge	Auto, normal, single, TV, delayed event, pulse, edge
Sensitivity	0,5div up to 25MHz (1div above)	0,5div up to 25MHz (1div above)
Coupling	AC, DC, LF, noise reject	AC, DC, LF, noise reject
External trigger		
Range	±15V	-
Input impedance	1M ohms //16pF	-
Sensitivity	50mV ~100mV	-
Max input voltage	300V (DC+AC peak), CAT II	-
Functions		
XY	yes	yes
Automatic measurement	27 measurements: FFT, Vpp, Vamp, Veff., Vhi, Vlo, Vmax, Vmin, Tm, overshoot, Freq, Period, width, duty cycle, delay measurement, cursors...	27 measurements: FFT, Vpp, Vamp, Veff., Vhi, Vlo, Vmax, Vmin, Tm, overshoot, Freq, Period, width, duty cycle, delay measurement, cursors...
Cursors	dV, dT, 1/dT	dV, dT, 1/dT
Counter	6 digits	6 digits
Autoset	yes	yes
Save setup + display	20 setup, 24 display	20 setup, 24 display
Autocalibration	yes	yes
Help	per function, multilanguages	per function, multilanguages
Interfaces & ouputs		
USB	yes, HOST - 2.0	yes, HOST - 2.0
RS-232	yes	yes
IEEE-488	yes, option when ordering	yes, option when ordering
Go-No-Go output	TTL, open collector (5V/10mA)	TTL, open collector (5V/10mA)
General specifications		
Display	coloured LCD, TFT 320x234	coloured LCD, TFT 320x234
Grid	8x10div or 8x12div without menu	8x10div or 8x12div without menu
Contrast	adjustable	adjustable
Supply	100 - 240V / 48-63Hz (65VA max.)	100 - 240V / 48-63Hz (65VA max.)
Safety	IEC1010, 300V - CAT II	IEC1010, 300V - CAT II
Operating temperature	0 to 50°C	0 to 50°C
Dimensions, weight	254x142x310mm - 4,3 Kg	254x142x310mm - 4,3 Kg
Warranty	1 year	1 year

Supplied with: : Supplied with: main cord, user's manual
 GPIB option (when ordering): 5X60IEEE
 19" rack option (4U size): 5X60RACK
 FreeWave software available, for free (ask when ordering)
 To get the best performances from your oscilloscope, we recommend to use ELDITEST probe GE.1521