



# Stanford Research Systems

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## Int'l Price List – November 2002

(Supersedes all prior price lists. Prices subject to change without notice.)

### FFT Spectrum Analyzers

SR760	Single channel FFT spectrum analyzer	\$5445
SR770	Single channel FFT spectrum analyzer (w/ src.)	\$7150
O760H	Carrying handle for SR760 and SR770	\$110
O760RM	Rack mount kit for SR760 and SR770	\$94
SR780	Dual channel dynamic signal analyzer	\$10945
SR785	Dual channel dynamic signal analyzer	\$13145
O780M1	8 MSample memory for SR780 and SR785	\$880
O780RM	Rack mount kit for SR780 and SR785	\$94
CT100	SRS instrument cart	\$935

### Synthesized Function Generators

DS335	3 MHz function generator	\$1205
01	GPIB and RS-232 interfaces	\$545
02	2 ppm TCXO timebase	\$385
DS340	15 MHz function/arb generator	\$1425
01	GPIB & RS-232 interfaces, arb. software	\$545
02	2 ppm TCXO timebase	\$385
DS345	30 MHz function/arb generator	\$1755
01	GPIB & RS-232 interfaces, arb. software	\$545
02	10 ppb high stability OCXO timebase	\$715
O345RMD	Double rack mount kit for DS3XX	\$94
O345RMS	Single rack mount kit for DS3XX	\$94
DS360	Ultra-low distortion function generator	\$2855
O360RM	Rack mount kit	\$94

### LCR Meters

SR715	10 kHz LCR meter (w/ RS-232)	\$1425
SR720	100 kHz LCR meter (w/ RS-232)	\$2195
01	GPIB and parts handler interfaces for SR7XX	\$545
SR726	Kelvin clips	\$330
SR727	Surface mount tweezers	\$330
O727RT	2 pairs of replacement tips for SR727	\$50
SR728	Four wire BNC adapter	\$220
O715RAA	Replacement axial adapters (2 pair)	\$39
O715RRF	Replacement radial fixture	\$83

### Time Interval and Frequency Counters

SR620	Time interval/frequency counter (w/rack mount)	\$5445
01	5 ppb high stability OCXO timebase	\$1045
SR625	SR620 w/ rubidium timebase (w/ rack mount)	\$16335

### Frequency Standards / Oscillators

FS725	Benchtop rubidium frequency standard	\$2745
01	Distribution amplifier - 6 additional outputs	\$330
02	Distribution amplifier - 12 additional outputs	\$660
03	Distribution amplifier - 18 additional outputs	\$990
O725RMD	Double rack mount kit for FS725	\$94
O725RMS	Single rack mount kit for FS725	\$94
PRS10	10 MHz rubidium oscillator	\$1645
PRBB	Breakout connector board	\$165
PRPS	24 VDC switching power supply	\$165
PRHS	Benchtop heat sink	\$55
PRMC	D type mating connector	\$22
SC10	10 MHz ovenized oscillator (base price)	\$275
FS700	LORAN-C freq. std. (w/ GPIB & rack mount)	\$3245
01	Low phase noise oscillator	\$495
02	RS-232 computer interface	\$385
O700ANT	Replacement antenna	\$275
O700LNG	Lightning protection module	\$110
FS710	10 MHz AGC distribution amplifier (7 ch.)	\$1100

### Thermocouple Monitor

SR630	16 channel thermocouple monitor	\$1645
O630KF1	K type thermocouples, 5 ft., fiberglass, qty. 5	\$55
O630KF2	K type thermocouples, 10 ft., fiberglass, qty. 5	\$83

O630KT1	K type thermocouples, 5 ft., teflon, qty. 5	\$55
O630KT2	K type thermocouples, 10 ft., teflon, qty. 5	\$83
O630RMD	Double rack mount kit	\$94
O630RMS	Single rack mount kit	\$94

### Dual Channel Programmable Filters

SR640	Two channel low pass filter (w/ rack mount)	\$3625
SR645	Two channel high pass filter (w/ rack mount)	\$3625
SR650	One high, one low pass filter (w/ rack mount)	\$3625
01	High current output for SR6XX filters	\$165

### Digital Delay / Pulse Generator

DG535	Digital delay / pulse generator (w/ GPIB)	\$4395
02	+/-32 volt rear panel outputs	\$715
03	1 ppm TCXO timebase	\$385
06	Trigger inhibit input	\$275
O4A	100 ps risetime module	\$275
O4B	100 ps falltime module	\$275
O4C	Bias Tee (used with opt. 02 & O4A or O4B)	\$110
O5	Dual rack mount tray	\$165

### Lock-In Amplifiers

SR510	Single phase lock-in (w/ RS-232 & rack mount)	\$2745
SR530	Dual phase lock-in (w/ RS-232 & rack mount)	\$3295
01	GPIB computer interface (SR510 & SR530)	\$545
SR810	DSP single phase lock-in (w/ rack mount)	\$4015
SR830	DSP dual phase lock-in (w/ rack mount)	\$4345
SR844	200 MHz lock-in (w/ rack mount)	\$8745
SR850	DSP dual phase lock-in (w/ rack mount)	\$8250
O850H	Carrying handle kit	\$110

### Preamplifiers

SR560	Low noise voltage preamplifier	\$2415
SR570	Low noise current preamplifier	\$2415
O560RMD	Double rack mount kit for SR5XX	\$94
O560RMS	Single rack mount kit for SR5XX	\$94
O560SB	Spare battery set (3 batteries) for SR5XX	\$165
SR445	300 MHz preamplifier (4 ch.)	\$1210
SR550	Lock-in voltage preamp. (100 MΩ, 3.6 nV/√Hz)	\$655
SR552	Lock-in voltage preamp. (100 kΩ, 1.4 nV/√Hz)	\$655
SR554	Lock-in transformer preamp. (0.091 nV/√Hz)	\$1095

### Optical Chopper

SR540	Optical chopper (w/ 5/6 and 25/30 slot blades)	\$1205
O5402530	25/30 dual slot replacement blade	\$39
O54030	30 slot replacement blade	\$39
O5405	5 slot replacement blade	\$39
O54056	5/6 dual slot replacement blade	\$39
O540RCH	Replacement chopper head	\$242

### High Voltage Power Supplies

PS310	1.25 kV DC power supply, 25 W	\$1485
PS325	2.5 kV DC power supply, 25 W	\$1485
PS350	5.0 kV DC power supply, 25 W	\$1485
01	GPIB computer interface for PS3XX	\$545
O2D	Double rack mount kit for PS3XX	\$94
O2S	Single rack mount kit for PS3XX	\$94
O3A	SHV to SHV coaxial cable, 10 ft.	\$55
O3B	SHV to MHV coaxial cable, 10 ft.	\$55

### Gated Integrators / Boxcar Averagers (NIM Modules)

SR200	Gate scanner for SR250 and SR255	\$1100
SR235	Analog math processor	\$1650
SR240	300 MHz preamplifier (4 ch.)	\$1100
SR245	Computer interface (GPIB and RS-232)	\$1650
SR250	Gated integrator	\$3290

SR255	Fast sampler	\$3290
SR272	Data acquisition Windows software	\$550
SR275	Display module (w/o power supply)	\$880
SR280	NIM mainframe & display (w/ power supply)	\$1760

### Small Instrumentation Modules (SIM)

SIM900	Mainframe with RS-232 computer interface	\$1095
01	GPIB computer interface <i>FREE INTRO OFFER</i>	\$0
O900RM	Rack mount kit for SIM900	\$94
SIM910	JFET preamplifier (100 M $\Omega$ , 4 nV/ $\sqrt{\text{Hz}}$ )	\$1073
SIM911	BJT preamplifier (100 k $\Omega$ , 1.8 nV/ $\sqrt{\text{Hz}}$ )	\$1073
SIM914	350 MHz preamplifier, (50 $\Omega$ , 6.4 nV/ $\sqrt{\text{Hz}}$ )	\$743
SIM921	AC resistance bridge (1 m $\Omega$ to 100 M $\Omega$ )	\$2805
SIM922	Diode temperature monitor	\$545
SIM923	Pt RTD monitor	\$545
SIM960	100 kHz analog PID controller	\$1705
SIM970	Four channel digital voltmeter	\$1530

### Photon Counters

SR400	Dual channel gated photon counter (w/rack mnt)	\$5885
SR430	Multichannel scaler / averager (w/ rack mount)	\$8745
O430H	Carrying handle kit	\$110

### Quartz Crystal Microbalance

QCM100	Includes controller, oscillator, holder and 3 crystals	\$1095
O100FC	Flow cell	\$215
O100RH	Replacement holder (Kynar)	\$435
O100RX1	Replacement crystals (5 MHz, AT-cut, qty. 10)	\$325
O100RX0	Replacement crystal oscillator electronics module	\$435

### Residual Gas Analyzers

RGA100	100 amu RGA (w/ RS-232 cable & software)	\$4125
RGA200	200 amu RGA (w/ RS-232 cable & software)	\$4950
RGA300	300 amu RGA (w/ RS-232 cable & software)	\$6600
01	Electron multiplier (EM)	\$1650
02	Built-in power module for AC line operation	\$275
03	Ion counting output (must have opt. 01)	\$275
04	NIST traceable 5% calibration (N <sub>2</sub> )	\$325
O100HJR	200 °C heater jacket for RGAs	\$435
O100MAX	Maximum insertion nipple w/ 4.5" flange	\$440
O100EM	Replacement electron multiplier	\$1100
O100RF	Replacement ThO <sub>2</sub> /Ir filament for RGA	\$220
O100RI	Replacement ionizer kit (w/ filament) for RGA	\$495

### Closed Ion Source Gas Analyzers

CIS100/1	100 amu CIS (w/EM, RS-232 cable & software)	\$7975
CIS200/1	200 amu CIS (w/EM, RS-232 cable & software)	\$8800
CIS300/1	300 amu CIS (w/EM, RS-232 cable & software)	\$10450
02	Built-in power module for AC line operation	\$275
O100HJC	200 °C heater jacket for CIS analyzers	\$435
O100EM	Replacement electron multiplier	\$1100
O100RFT	Replacement ThO <sub>2</sub> /Ir filament (qty. 2)	\$138
O100RFW	Replacement Tungsten filament (qty. 5)	\$110
O100RIC	Replacement ionizer kit (w/ filament) for CIS	\$990
O100TDP	Turbomolecular pump & diaphragm pump	\$11000

### High Pressure Sampling Systems

PPR100/1	100 amu process monitoring system	\$20900
PPR200/1	200 amu process monitoring system	\$21725
PPR300/1	300 amu process monitoring system	\$23375
QMS100	100 amu atmospheric sampling system	\$25300
QMS200	200 amu atmospheric sampling system	\$26125
QMS300	300 amu atmospheric sampling system	\$27775
01	High vacuum rear port for QMS analyzers	\$550
O100BV	Bypass valve assembly with orifice	\$3850
O100SSC	Stainless steel capillary (10, 100 or 760 Torr)	\$165
O100PKC	Replacement PEEK capillary (760 Torr)	\$165

### Gas Analyzer Accessories

O100BV	Bypass valve assembly with orifice	\$3850
O100RO	Replacement orifice for O100BV	\$55
O100TDP	Turbomolecular pump & diaphragm pump	\$11000
O100DPR	Diaphragm pump factory rebuild	\$880
O100DPRK	Rebuild kit for diaphragm pump	\$605
O100TPE	Turbomolecular pump exchange	\$2750

### Ion Gauge Controller

IGC100	Ion gauge controller (w/ RS-232)	\$1645
01	GPIB computer interface	\$325
02	Web interface with ethernet connection	\$325
03	Eight channel process control	\$325
O100IG	Second ion gauge channel	\$105
O100IGRM	Rack mount tray for one or two IGC100s	\$165
O100C1	10 ft. cable for glass, single filament gauges	\$140
O100C1/1	25 ft. cable for glass, single filament gauges	\$173
O100C1/2	50 ft. cable for glass, single filament gauges	\$228
O100C2	10 ft. cable for glass, dual filament gauges	\$140
O100C2/1	25 ft. cable for glass, dual filament gauges	\$173
O100C2/2	50 ft. cable for glass, dual filament gauges	\$228
O100C3	10 ft. cable for nude gauges	\$140
O100C3/1	25 ft. cable for nude gauges	\$173
O100C3/2	50 ft. cable for nude gauges	\$228
O100CA1	Adapter for Micro-Ion <sup>®</sup> gauge	\$28

### Bayard-Alpert Ionization Gauges

GR-075K	Kovar, 0.75", single filament, ThO <sub>2</sub> /Ir	\$140
GR-075P	Pyrex, 0.75", single filament, ThO <sub>2</sub> /Ir	\$121
GR-100F	2.75" CF, 1" side tube, single fil., ThO <sub>2</sub> /Ir	\$210
GR-100K	Kovar, 1", single filament, ThO <sub>2</sub> /Ir	\$150
GR-100P	Pyrex, 1", single filament, ThO <sub>2</sub> /Ir	\$132
GW-075K	Kovar, 0.75", dual filament, Tungsten	\$127
GW-075P	Pyrex, 0.75", dual filament, Tungsten	\$110
GW-100F	2.75" CF, 1" side tube, dual fil., Tungsten	\$200
GW-100K	Kovar, 1", dual filament, Tungsten	\$140
GW-100P	Pyrex, 1", dual filament, Tungsten	\$121
01	NIST traceable 6% calibration (Glass gauges)	\$215
02	NIST traceable 3% calibration (Glass gauges)	\$825
NR-F	Nude, bi-filar helix grid, single fil., ThO <sub>2</sub> /Ir	\$435
NR-F-UHV	Nude, closed cage grid, dual fil., ThO <sub>2</sub> /Ir	\$462
NW-F-UHV	Nude, closed cage grid, dual fil., Tungsten	\$435
01	NIST traceable 6% cal w/ nipple (Nude gauges)	\$325
02	NIST traceable 3% cal w/ nipple (Nude gauges)	\$935
O100RFADW	Dual Tungsten replacement fil. for NW-F-UHV	\$143
O100RFASR	Single ThO <sub>2</sub> /Ir replacement fil. for NR-F	\$143
O100RFADR	Dual ThO <sub>2</sub> /Ir replacement fil. for NR-F-UHV	\$171

### Convection Enhanced Pirani Gauges

PG105	Pirani gauge (bakeable to 110 °C, 1/8" NPT)	\$140
PG105U	Pirani gauge (bakeable to 250 °C, 1/8" NPT)	\$275
01	1.33" CF flange	\$55
02	2.75" CF flange	\$55
03	NW16KF flange	\$33
04	NW25KF flange	\$33
05	VCR 1/4" fitting	\$33
06	VCR 1/2" fitting	\$33
07	VCO 1/4" fitting	\$33
08	VCO 1/2" fitting	\$33
O105C4	10 ft. cable for PG105/PG105U, dual gauge	\$55
O105C4/1	25 ft. cable for PG105/PG105U, dual gauge	\$72
O105C4/2	50 ft. cable for PG105/PG105U, dual gauge	\$99
O105CA1	Adapter for CONVECTRON <sup>®</sup> gauge	\$28
O105CA2	Adapter for HPS <sup>®</sup> series 317 gauge	\$28

### MALDI-TOF Mass Spectrometer

PRO100	MALDI-TOF Mass Spectrometer	\$43950
01	Negative ion mode	\$10450
02	1 GHz transient digitizer upgrade	\$5500
O100CSP	Computer for PRO100 (GPIB & camera card)	\$3575

**Terms:** For direct orders, prepayment or irrevocable letter of credit. Minimum order is \$220.

**Shipping:** FOB Sunnyvale, CA 94089. Standard Shipment method is air freight collect unless otherwise specified.

**Warranty:** All instruments, unless otherwise stated, are warranted to be free from all defects in material and workmanship for one year from date of shipment. Chopper motors, computer accessories, diaphragm pump seals/diaphragm, and rebuilt turbomolecular pumps are warranted for 90 days from the date of shipment.

**Options:** There is a \$275 retrofit charge to add any internal option to an existing instrument.

**Calibration/Repair:** Repair and calibration charge is 10% of the current instrument price (including installed options). Minimum charge is \$200. Instruments being returned for repair or calibration must have a return authorization number (RMA#) issued by SRS. A certificate of calibration is available at no charge if requested at the time the order is placed.