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U.S.A. Price List - July 2011

Audio Analyzer

SR1	Dual-domain audio analyzer	\$8,400
01	80 MHz digitizer	\$1,500
02	High resolution display	\$600
O1RM	Rack mount kit for SR1	\$100
SR10	Balanced input switcher	\$1,500
SR11	Balanced output switcher	\$1,500
SR12	Unbalanced I/O switcher	\$1,500
OSR10RM	Rack mount kit for SR10, SR11 and SR12	\$100
PERF10	Atomic rubidium audio oscillator	\$3,495
01	12 VDC power input	\$495

FFT Spectrum Analyzers

SR760	Single-channel FFT spectrum analyzer	\$4,950
SR770	Single-channel FFT spectrum analyzer (w/ source)	\$7,500
O760H	Carrying handle for SR760 and SR770	\$100
O760RM	Rack mount kit for SR760 and SR770	\$100
SR780	Dual-channel dynamic signal analyzer	\$9,950
SR785	Dual-channel dynamic signal analyzer	\$13,950
O780M1	8 MSample memory for SR780 and SR785	\$800
O780RM	Rack mount kit for SR780 and SR785	\$100
CT100	SRS instrument cart	\$850

Synthesized Function Generators

DS335	3 MHz function generator	\$1,095
01	GPIB and RS-232 interfaces	\$495
02	2 ppm TCXO timebase	\$350
DS340	15 MHz function/arb generator	\$1,295
01	GPIB & RS-232 interfaces, arb. software	\$495
02	2 ppm TCXO timebase	\$350
DS345	30 MHz function/arb generator	\$1,595
01	GPIB & RS-232 interfaces, arb. software	\$495
02	10 ppb high stability OCXO timebase	\$650
O345RMD	Double rack mount kit for DS3XX	\$100
O345RMS	Single rack mount kit for DS3XX	\$100
DS360	Ultra-low distortion function generator	\$2,795
03	10 MHz reference input for DS360	\$695
O360RM	Rack mount kit	\$100

RF Signal Generators

SG382	2 GHz signal generator	\$3,900
SG384	4 GHz RF signal generator	\$4,600
SG386	6 GHz signal generator	\$5,900
01	Rear-panel clock outputs (SMA connectors)	\$750
02	8 GHz doubler & DC bias (SG384 or SG386)	\$750
03	External I/Q modulation	\$750
04	Rubidium timebase	\$1,500
RM2U-S	Single rack mount kit	\$100
RM2U-D	Dual rack mount kit	\$100

Synthesized Clock Generator

CG635	Synthesized clock generator	\$2,995
01	PRBS w/ comp. LVDS on SMA	\$550
02	OCXO timebase	\$650
03	Rubidium timebase	\$1,650
CG640	CMOS (+5 Vcc) to 100 MHz receiver	\$250
CG641	CMOS (+3.3 Vcc) to 500 MHz receiver	\$250
CG642	CMOS (+2.5 Vcc) to 500 MHz receiver	\$250
CG643	PECL (+5 Vcc) to 2050 MHz receiver	\$250
CG644	PECL (+3.3 Vcc) to 2050 MHz receiver	\$250
CG645	PECL (+2.5 Vcc) to 2050 MHz receiver	\$250

CG646	RF (+7 dBm) to 2050 MHz receiver	\$250
CG647	CML/NIM to 2050 MHz receiver	\$250
CG648	ECL to 2050 MHz receiver	\$250
CG649	LVDS to 2050 MHz receiver	\$250
CG650	All ten receivers (CG640-CG649)	\$1,995
O635RMD	Double rack mount kit	\$100
O635RMS	Single rack mount kit	\$100

Frequency Standards / Oscillators

FS725	Benchtop rubidium frequency standard	\$2,695
01	Distribution amplifier - 6 additional outputs	\$400
02	Distribution amplifier - 12 additional outputs	\$800
03	Distribution amplifier - 18 additional outputs	\$1,200
O725RMD	Double rack mount kit for FS725	\$100
O725RMS	Single rack mount kit for FS725	\$100
FS730	Seven-channel distribution amplifier	\$650
RM1U	1U dual rack mount	\$100
FS735	Fourteen-channel distribution amplifier	\$750
PRS10	10 MHz rubidium oscillator	\$1,495
PRBB	Breakout connector board	\$150
PRPS	24 VDC switching power supply	\$150
PRHS	Benchtop heat sink	\$100
PRMC	D-type mating connector	\$50
SC10	10 MHz ovenized oscillator (base price, qty.100)	\$250
FS710	10 MHz AGC distribution amplifier (7 channel)	\$1,000

Time Interval and Frequency Counters

SR620	Time interval/frequency counter (w/ rack mount)	\$4,950
01	2 ppb high stability OCXO timebase	\$950
SR625	SR620 w/ rubidium timebase (w/ rack mount)	\$6,950

LCR Meters

SR715	10 kHz LCR meter (with RS-232)	\$995
SR720	100 kHz meter w/ RS-232, GPIB & Handler interface	\$1,495
SR726	Kelvin clips	\$300
SR727	Surface mount tweezers	\$300
SR728	Four-wire BNC adapter	\$200
O727RT	2 pairs of replacement tips for SR727	\$100
O715RAA	Replacement axial adapters (2 pair)	\$100
O715RRF	Replacement radial fixture	\$100

Dual Channel Programmable Filters

SR640	Two-channel low pass filter (w/ rack mount)	\$3,295
SR645	Two-channel high pass filter (w/ rack mount)	\$3,295
SR650	One high, one low pass filter (w/ rack mount)	\$3,295
01	High current output for SR6XX filters	\$200

Thermocouple Monitor

SR630	16-channel thermocouple monitor	\$1,495
O630KF1	K-type thermocouples, 5 ft., fiberglass, qty. 5	\$100
O630KF2	K-type thermocouples, 10 ft., fiberglass, qty. 5	\$100
O630KT1	K-type thermocouples, 5 ft., teflon, qty. 5	\$100
O630KT2	K-type thermocouples, 10 ft., teflon, qty. 5	\$100
O630RMD	Double rack mount kit	\$100
O630RMS	Single rack mount kit	\$100

Digital Delay / Pulse Generator

DG645	Four-channel digital delay generator	\$3,995
01	Eight delay channels (5 V)	\$750
02	Eight delay channels (30 V)	\$950
03	Combinatorial outputs	\$750
04	OCXO timebase	\$750
05	Rubidium timebase	\$1,650
O645RMS	Single rack mount kit	\$100
O645RMD	Dual rack mount kit	\$100
SRD1	Fast rise time module (100 ps)	\$250
DG535	Digital delay / pulse generator (with GPIB)	\$3,995
02	+/-32 volt rear panel outputs	\$650
03	1 ppm TCXO timebase	\$350
06	Trigger inhibit input	\$250
SRD1	Fast rise time module (100 ps)	\$250
/4B	100 ps fall time module	\$250
/4C	Bias Tee (used with opt. 02 & O4A or O4B)	\$100
/5	Dual rack mount tray	\$150
DB64	Coax delay box	\$395
RM1U	1U dual rack mount	\$100

Gated Integrators / Boxcar Averagers (NIM Modules)

SR200	Gate scanner for SR250 and SR255	\$1,000
SR235	Analog math processor	\$1,500
SR240A	350 MHz preamplifier (4 channel)	\$1,000
SR245	Computer interface (GPIB and RS-232)	\$1,500
SR250	Gated integrator	\$2,990
SR255	Fast sampler	\$2,990
SR272	Data acquisition Windows software	\$500
SR275	Display module (without power supply)	\$800
SR280	NIM mainframe & display (with power supply)	\$2,000

Lock-In Amplifiers

SR510	Single phase lock-in (w/ RS-232 & rack mount)	\$2,495
SR530	Dual phase lock-in (w/ RS-232 & rack mount)	\$2,995
01	GPIB computer interface	\$995
02	Internal oscillator	\$995
SR810	DSP single phase lock-in (with rack mount)	\$3,850
SR830	DSP dual phase lock-in (with rack mount)	\$4,750
SR844	200 MHz lock-in (with rack mount)	\$8,450
SR850	DSP dual phase lock-in (with rack mount)	\$7,950
O850H	Carrying handle kit	\$100
SR124	200 kHz analog lock-in amplifier	\$6,950
SX199	Remote optical interface unit for SR124	\$1,095

Preamplifiers

SR560	Low-noise voltage preamplifier	\$2,395
SR570	Low-noise current preamplifier	\$2,395
O560RMD	Double rack mount kit for SR5XX	\$100
O560RMS	Single rack mount kit for SR5XX	\$100
O560SB	Spare battery set (3 batteries) for SR5XX	\$200
SR445A	350 MHz preamplifier (4 ch.)	\$1,200
RM1U	1U dual rack mount	\$100
SR550	Lock-in voltage preamp. (100 M Ω , 3.6 nV/ $\sqrt{\text{Hz}}$)	\$750
SR552	Lock-in voltage preamp. (100 k Ω , 1.4 nV/ $\sqrt{\text{Hz}}$)	\$750
SR554	Lock-in transformer preamp. (0.091 nV/ $\sqrt{\text{Hz}}$)	\$1,200
SR555	Current preamplifier (1 V/ μA)	\$1,095
SR556	Current preamplifier (1 V/nA)	\$1,095

Optical Chopper

SR540	Optical chopper (with 5/6 and 25/30 slot blades)	\$1,195
O5402530	25/30 dual-slot replacement blade	\$50
O54030	30-slot replacement blade	\$50
O5405	5-slot replacement blade	\$50
O54056	5/6 dual-slot replacement blade	\$50
O540RCH	Replacement chopper head	\$350

Laser Shutter

SR470	Shutter controller	\$1,295
SR474	4-ch. shutter driver	\$1,295
O470RMS	Single rack mount kit for SR470 and SR474	\$100
O470RMD	Double rack mount kit for SR470 and SR474	\$100
SR475	Shutter head (100 Hz)	\$495
SR476	Shutter head (125 Hz)	\$495

Laser Diode Controller

LDC500	Laser diode controller (w/ temperature controller)	\$2,495
LDC501	Laser diode controller (w/ temperature controller)	\$2,495
LDC502	Laser diode controller (w/ temperature controller)	\$2,795
O500RM	Dual rack mount tray for LDC500 and LDC501	\$150
O500C1	6' laser diode cable with flying leads	\$100
O500C2	6' TEC cable with flying leads	\$100
O500C3	6 foot laser diode cable with mating D connector	\$100
O500C4	6 foot TEC cable with mating D connector	\$100
O500C5	12' laser diode cable with mating D connector	\$125
O500C6	12' TEC cable with mating D connector	\$125

High Voltage Power Supplies

PS310	1.25 kV DC power supply, 25 W	\$1,395
PS325	2.5 kV DC power supply, 25 W	\$1,395
PS350	5.0 kV DC power supply, 25 W	\$1,395
01	GPIB interface for PS310, PS325 & PS350	\$595
/2D	Double rack mount kit (PS310, PS325, PS350)	\$100
/2S	Single rack mount kit (PS310, PS325, PS350)	\$100
/3A	SHV to SHV cable, 10 ft. (PS310, PS325, PS350)	\$150
/3B	SHV to MHV cable, 10 ft. (PS310, PS325, PS350)	\$150
PS355	-10 kV supply with GPIB and RS-232	\$2,250
PS365	+10 kV supply with GPIB and RS-232	\$2,250
/3C	10 kV-SHV to open-ended cable, 10 ft.	\$395
/3D	10 kV-SHV to 10 kV-SHV cable, 10 ft.	\$495
PS370	-20 kV supply with GPIB and RS-232	\$2,250
PS375	+20 kV supply with GPIB and RS-232	\$2,250
/3E	20 kV-SHV to open-ended cable, 10 ft.	\$595
/3F	20 kV-SHV to 20 kV-SHV cable, 10 ft.	\$695
O300RMS	Single rack mount kit (PS355, PS365, PS370, PS375)	\$100
O300RMD	Double rack mount kit (PS355, PS365, PS370, PS375)	\$100

Small Instrumentation Modules (SIM)

SIM900	Mainframe with RS-232 computer interface	\$995
01	GPIB computer interface	\$495
O900RM	Rack mount kit for SIM900	\$100
SIM910	JFET preamplifier (100 M Ω , 4 nV/ $\sqrt{\text{Hz}}$)	\$975
SIM911	BJT preamplifier (100 k Ω , 1.8 nV/ $\sqrt{\text{Hz}}$)	\$975
SIM914	350 MHz preamplifier, (50 Ω , 6.4 nV/ $\sqrt{\text{Hz}}$)	\$975
SIM918	Precision current preamplifier	\$1,250
SIM921	AC resistance bridge (1 m Ω to 100 M Ω)	\$2,495
SIM922	Diode temperature monitor	\$895
SIM922A	Diode temperature monitor with analog output	\$895
SIM923	Platinum RTD monitor	\$895
SIM923A	Platinum RTD monitor with analog output	\$895
SIM925	Octal 4-wire multiplexer	\$990
SIM928	Rechargeable isolated voltage source	\$1,095
O928RBA	Replacement battery assembly	\$250
SIM940	Rubidium frequency standard	\$1,495
SIM954	Dual-channel 300 MHz inverting amplifier	\$975
SIM960	100 kHz analog PID controller	\$1,750
SIM964	1 MHz analog limiter	\$995
SIM965	Bessel and Butterworth filter	\$1,095
SIM970	Four-channel digital voltmeter	\$1,390
SIM980	Analog summing amplifier	\$995
SIM983	Scaling amplifier	\$995
SIM9B1	Blank single-wide SIM module	\$150
SIM9B2	Blank double-wide SIM module	\$175

Photon Counters

SR400	Dual-channel photon counter (w/ rack mount)	\$5,350
SR430	Multichannel scaler / averager (with rack mount)	\$7,950
SR445A	350 MHz preamplifier (4 ch.)	\$1,200
O430H	Carrying handle kit	\$100

Melting Point Apparatus

MPA100	Melting point apparatus (with USB & software)	\$2,795
MPA120	Melting point apparatus	\$1,795
MPA160	Melting point apparatus for students (100 to 132 VAC, 50 to 60 Hz)	\$790
MPA161	Melting point apparatus for students (200 to 250 VAC, 50 to 60 Hz)	\$790
O100MPC	Capillaries (300 pcs.)	\$150
O100MPS	Melting point standards	\$295
O100P	Printer with cable and paper (MPA100 only)	\$395

Quartz Crystal Microbalance

QCM200	Includes controller, oscillator, holder and 3 crystals	\$2,795
O100CCB	Crystal cleaning basket	\$195
O100FC	Flow cell	\$295
O100RXO	Replacement crystal oscillator electronics module	\$395
O100RH	Replacement crystal holder	\$395
O100RX1	Chrome/gold crystals (qty. 10)	\$350
O100RX3	Titanium/gold crystals (qty. 10)	\$350
O100RX4	Titanium/platinum crystals (qty. 10)	\$450

Programmable Temperature Controllers

CTC100	Cryogenic temperature controller	\$2,600
01	GPIB interface (replaces RS-232)	\$495
O100CTRM	Rack mount tray for CTC100	\$150
PTC10	Programmable temperature controller	\$1,495
01	GPIB interface	\$595
O10RM	Rack mount kit for PTC10	\$100
PTC320	Thermistor/Diode/RTD reader	\$495
PTC321	4-ch. Pt RTD card	\$495
PTC322	4-ch. Pt RTD card (single slot only)	\$495
PTC330E	4-ch. E-type thermocouple card	\$495
PTC330J	4-ch. J-type thermocouple card	\$495
PTC330K	4-ch. K-type thermocouple card	\$495
PTC330N	4 channel N-type thermocouple reader	\$495
PTC330T	4-ch. T-type thermocouple card	\$495
PTC420	600 W AC output card	\$495
PTC430	50 W DC output card	\$495
PTC440	TEC driver	\$495

Nitrogen Laser

NL100	Nitrogen laser	\$4,750
01	Optional sync-out pulse	\$250

Potentiostat / Galvanostat

EC301	30 V / 1 A potentiostat / galvanostat	\$7,990
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Residual Gas Analyzers

RGA100	100 amu RGA (with RS-232 cable & software)	\$3,750
RGA200	200 amu RGA (with RS-232 cable & software)	\$4,750
RGA300	300 amu RGA (with RS-232 cable & software)	\$6,250
01	Electron multiplier (EM)	\$1,500
02	Built-in power module for AC line operation	\$250
03	Ion counting output (must have opt. 01)	\$250
O100HJR	200 °C heater jacket for RGAs	\$450
O100MAX	Maximum insertion nipple with 4.5" flange	\$600
O100EM	Replacement electron multiplier	\$1,000
O100RI	Replacement ionizer kit (with filament) for RGA	\$450
O100REA	Ethernet adapter for RGA	\$495
O100RF	Replacement ThO ₂ /Ir filament for RGA	\$200
PPM100	Optional stand-alone monitor for RGA	\$2,495

Closed Ion Source Gas Analyzers

CIS100/1	100 amu CIS (w/EM, RS-232 cable & software)	\$7,250
CIS200/1	200 amu CIS (w/EM, RS-232 cable & software)	\$8,250
CIS300/1	300 amu CIS (w/EM, RS-232 cable & software)	\$9,750
02	Built-in power module for AC line operation	\$250
O100HJC	200 °C heater jacket for CIS analyzers	\$395
O100REA	Ethernet adapter for RGA	\$495
O100EM	Replacement electron multiplier	\$1,000
O100RFT	Replacement ThO ₂ /Ir filament (qty. 2)	\$125
O100RFW	Replacement tungsten filament (qty. 5)	\$100
O100RIC	Replacement ionizer kit (with filament) for CIS	\$900
O100TDP	Turbomolecular pump and diaphragm pump	\$9,975

High Pressure Sampling Systems

PPR100/1	100 amu process monitoring system	\$19,000
PPR200/1	200 amu process monitoring system	\$20,000
PPR300/1	300 amu process monitoring system	\$21,500
QMS100	100 amu atmospheric sampling system	\$23,000
QMS200	200 amu atmospheric sampling system	\$24,000
QMS300	300 amu atmospheric sampling system	\$25,500
01	High-vacuum rear port for QMS analyzers	\$500
O100REA	Ethernet adapter for RGA	\$495
O100BV	Bypass valve with orifice (0.01, 0.1, 1.0 or 10 Torr)	\$3,500

UGA100	100 amu analyzer w/ electron multiplier & software	\$33,950
UGA200	200 amu analyzer w/ electron multiplier & software	\$34,950
UGA300	300 amu analyzer w/ electron multiplier & software	\$36,450
01	Multi-port (16 ch.) sampling inlet	\$5,000
02	Turbo pump venting port	\$2,500
03	Upgrade turbo pump for high hydrogen concentrations	\$6,000
O100HC	Heated capillary	\$1,000
ULT100	100 amu analyzer w/ electron multiplier & software	\$28,000
ULT200	200 amu analyzer w/ electron multiplier & software	\$29,000
ULT300	300 amu analyzer w/ electron multiplier & software	\$30,500
01	Ion gauge	\$1,500
02	Turbo pump venting port	\$2,500

Gas Analyzer Accessories

O100RF	Replacement ThO ₂ /Ir filament for RGA	\$200
O100RI	Replacement ionizer kit (with filament) for RGA	\$450
O100EM	Replacement electron multiplier	\$1,000
O100RO	Replacement orifice for O100BV (0.01, 0.1, 1, 10 Torr)	\$100
O100BV	Bypass valve with orifice (0.01, 0.1, 1.0 or 10 Torr)	\$3,500
O100PKC	Replacement PEEK capillary (760 Torr)	\$150
O100SSC	Stainless steel capillary (10, 100 or 760 Torr)	\$150
O100RFT	Replacement ThO ₂ /Ir filament (qty. 2)	\$125
O100RFW	Replacement tungsten filament (qty. 5)	\$100
O100RIC	Replacement ionizer kit (with filament) for CIS	\$900
O100TDP	Turbomolecular pump and diaphragm pump	\$9,975
O100DPR	Diaphragm pump factory rebuild	\$800
O100DPRK	Rebuild kit for diaphragm pump	\$550
O100TPE	Turbomolecular pump exchange	\$2,500

Ion Gauge Controller

IGC100	Ion gauge controller (with RS-232)	\$1,495
01	GPIB computer interface	\$295
02	Web interface with ethernet connection	\$595
03	Eight-channel process control	\$295
O100IG	Second ion gauge channel	\$295
O100IGRM	Rack mount tray for one or two IGC100s	\$150
O100C1	10 ft. cable for glass, single filament gauges	\$200
O100C1/1	25 ft. cable for glass, single filament gauges	\$250
O100C2	10 ft. cable for glass, dual filament gauges	\$200
O100C2/1	25 ft. cable for glass, dual filament gauges	\$250
O100C3	10 ft. cable for nude gauges	\$200
O100C3/1	25 ft. cable for nude gauges	\$250
O100CA1	Adapter for Micro-Ion [®] gauge	\$100

Bayard-Alpert Ionization Gauges

GR-100F	2.75" CF, 1" side tube, single fil., ThO ₂ /Ir	\$295
GW-100F	2.75" CF, 1" side tube, dual fil., Tungsten	\$285
NR-F	Nude, bi-filar helix grid, single fil., ThO ₂ /Ir	\$475
NR-F-UHV	Nude, closed cage grid, dual fil., ThO ₂ /Ir	\$475
NW-F-UHV	Nude, closed cage grid, dual fil., Tungsten	\$495
O100RFADW	Dual tungsten replacement fil. for NW-F-UHV	\$150
O100RFASR	Single ThO ₂ /Ir replacement fil. for NR-F	\$150
O100RFADR	Dual ThO ₂ /Ir replacement fil. for NR-F-UHV	\$175

Convection Enhanced Pirani Gauges

PG108	G-P Convection Pirani gauge, 1/8" NPT	\$130
01	1.33" rotatable CF flange	\$50
02	2.75" rotatable CF flange	\$50
03	16KF	\$50
04	25KF	\$50
05	40KF	\$55
06	1/4" VCR, female	\$50
O108C4	10 ft. cable for PG108, dual gauge	\$100
O108C4/1	25 ft. cable for PG108, dual gauge	\$130

Terms: Net 30 Days. Minimum order is \$275.

Shipping: FOB Sunnyvale, CA 94089. Standard shipment method is UPS ground 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 pumps and rebuilt turbomolecular pumps are warranted for 90 days from the date of shipment.

Options: There is a \$250 retrofit charge to add any internal option to an existing instrument.