



Instruments Designed for Teaching

US/Canada Price List in US Dollars January 2018

(Prices subject to change without notice)

Condensed Matter Physics, CMP1-A

TeachSpin's Condensed-Matter Physics initiative is a modular package, built of parts that can be purchased separately. Users, for example, might provide their own Vacuum (pumping) System. Users will likely start with the Variable Temperature Cryostat System and the Cryostat Support Electronics listed below. The (three) experiments also listed below are built to mount in the TeachSpin Cryostat, but they can be purchased in any order or combination.

Variable Temperature Cryostat System..... \$15,235.00

Includes: Completely Wired 80-400K Dewar, Thermocouple Gauge with Two Sensors, Vacuum Valves, Sample Chambers, Heaters and Diode Thermometers, Interface Connector Box, D-sub cables (3), Custom Wooden Dewar Support, Manual

Cryostat Support Electronics..... \$5,985.00

Includes: SRS "Mainframe" SIM 900, SRS Diode Temperature Monitor SIM 922, TeachSpin's PI Temperature Controller PITC1-A, (3) Mounted Diode Thermometers, TeachSpin's Dual Current Supply, 2 Volteq HY6003D Power Supply, 4-3Ft. Banana-Jack Cables, Manual

Transport/ Electrical Experiments..... \$1,995.00

Includes: TeachSpin's Constant Current Source CCS1-A, Sample Platform 6-Wire Connector, Two Mounted Semiconductor Samples n-, p- type Si, Circuit Board Platform, 3 Evaporation Substrates, Manual
Recommended Accessory: Fluke 287 Multimeter..... \$495.00

Magnetic Susceptibility Experiments..... \$3,225.00

Includes: Hartshorn-Coil Assembly, TeachSpin's Hartshorn Coil Driver HCD1-A, Various Sample Holders, Probe Coil, Temperature Probe, Sample Molds and Epoxy Kit, 12 Special Samples, Manual

NOTE: Measurement Requires Lock-In Amplifier, such as

TeachSpin's SPLIA1-A..... \$2,795.00
Or SRS Two Phase SR530..... \$2,995.00

Specific Heat Experiments..... \$3,475.00

Includes: TeachSpin's Pulsed Current Source PC1-A, High Gain Utility Amplifier, Complete Addendum and Hardware, Sample Molds and Epoxy Kit, 14 Special Samples, Manual

Vacuum System..... \$7,935.00

Includes: Pfeiffer HiCube 80 Turbo Pump, Complete Valve, Lines, Cross, O-Rings, Clamps, Etc., Pirani/Cold Cathode Vacuum Gauge, Custom Wood Stand, Instructions for Operation

Custom Wooden Rack for Electronic Modules...(not available in Canada)..... \$325.00

TeachSpin's Dual Current Supply for Diode Thermometry DCDT1-A..... \$795.00

Power Supply for Two SIM Modules, TeachSpin CMPPS1-A..... \$295.00

Room Temperature Hall Effect Experiments..... \$1,625.00

Includes: p-type & n-type Silicon Samples, and Copper Sample

Recommended Accessory: Additional Silicon Sample..... \$395.00
Evaporation Substrates..... 1-9 \$20 each, \$150 for 10
Additional Semiconductor Samples..... Inquire
Fluke 287 Multimeter..... \$495.00

Foundational Magnetic Susceptibility..... \$1,635.00

Includes: Microbalance, Sample Manipulator, Material Samples (16), Sample Containers (24), Suspended Magnet, Current-Loop Calibrator, Graphite Levitation Kit, Manual

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Diode Laser Spectroscopy, DLS1-A*

Complete Instrument* \$ 17,550.00

Includes: Laser Head · 1 Extra Diode Lasers (tested) · Complete Electronics (*Laser Controller, Cell Temperature Controller, Detector Electronics*) · 3 Photodiode Detectors with preamp · IR Viewing Card · CCD Camera · TV Monitor · Optics with all mounts and bases (*5 Mirrors, High Power Neutral Density Filter, 2 Neutral Density Filter sets with holder, 1° Optical Beam Splitter, 2° Optical Beam Splitter, 2 50/50 Beam Splitters, Flat Beam Splitter, 2 Rotating Linear Polarizers, 2 Rotating ¼-Wave Plates*) · Absorption Cell Assembly (*Rb Cell, Helmholtz Coils, Cell Heater, Rotating Stand*) · 2 Safety Goggles · Special Tools · Black Anodized Aluminum Optical Bread Board 24" x 36" x ½" · Instructor/Student Manual

* **Magnetic field experiments require a separate current controlled power supply** - See recommended accessory

Enhanced Instrument. \$ 19,250.00

(Includes Fabry-Perot Cavity)

Recommended Accessories:

Fabry-Perot Cavity FP1-A \$ 1,795.00
 (within one semester of DLS1-A Purchase). . \$ 1,695.00
 Auxiliary Power Supply for Magnetic Experiments
 Volteq Supply HY6003 \$ 255.00

DLS Partial Systems Available:

Any System without Bread Board, deduct - \$ 565.00

Basic Experiments, DLSB1-A \$ 16,275.00

This system **does not include** optics needed for simultaneous interferometry or several magnetic field experiments.

Items Deleted: 1 Photodiode Detector (Center),
 2 Mirrors, 2° Beam Splitter, 1 50/50 Beam Splitter,
 Flat Beam Splitter, 2 Rotating Linear Polarizers,
 2 Rotating ¼-Wave Plates

Note: This system includes Bread Board

Diode Laser and Controller, DLHC1-A . \$ 12,175.00

Includes: Breadboard · Laser Head · 2 Diode Lasers (tested) · Complete Electronics (with cell temperature controller and detector electronics) · Manual · 2 pair Mandatory Safety Goggles

Optical Detector, DLOD1-A \$ 435.00

Includes: Complete Mounting Hardware · Photodiode with Low-Noise Preamp · Hood

Earth's Field NMR, EFNMR1-B*

Complete System including Gradient/Field Coil* \$ 7,995.00

Includes: Sample and Bucking Coil · Electronics for Sample and Bucking Coil (*Polarization Timer, High-Q Tuned Amplifier, Tuning Controls, Built-In Speaker, Sound Amplification*) · 2 Sample Holders · Gradient/Field Coil System (*x,y,z Gradient Coils, Helmholtz Field Coils, Controller with Built-In Gradient Coil Power Supply*) · Segmented Sample Holder with filling syringe · Set of 3 Fluorine Samples (non-volatile, non-toxic) · Dip Needle Compass · All Connecting Cables · Instructor/Student Manual

* **2 Separate current controlled power supplies required. Sample Coil: 60V 3A-Volteq; Gradient/Field Coil: Inquire**

Premium System \$ 8,795.00

(Includes 2 Volteq Power Supply & Hall Effect Probe)

Recommended Accessories/Additional Parts:

Spin Flip Coils 245.00
 Volteq HY6003D Power Supply 255.00
 Additional Set Fluorine Liquid Samples . . . 180.00
 Non-volatile, Non-toxic Perfluoropolyether fluids (HT-110, HT-70, PFS-2)
 Extra Sample Holders 5.75
 Additional Segmented Sample Holder with Filling Syringe 135.00
 Hall Effect Probe (if purchased with EF). . . 390.00

EFNMR Partial Systems Available:

Basic Instrument, EFNMR1-A* \$ 5,225.00

Includes: Sample and Bucking Coil · Electronics for Sample and Bucking Coil (*Polarization Timer, High-Q Tuned Amplifier, Tuning Controls, Sound Amplification, Built-In Speaker*) · 2 Sample Holders · All Connecting Cables · Instructor/Student Manual

Basic with Volteq Supply \$ 5,385.00

Earth's Field NMR Gradient/Field Coil System, EFGFC1-A* \$ 3,595.00

Includes: x,y,z Gradient Coils, Helmholtz Field Coils, Controller with Built-In Gradient Coil Power Supply · Dip Needle Compass · Segmented Sample Holder with filling syringe · All Connecting Cables · Instructor/Student Manual
 With Volteq & Hall Effect Probe \$4,175.00



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Fabry-Perot Cavity, FP1-A*

Basic Instrument* \$ 1,795.00

(within one semester of DLS1-A purchase) . . \$ 1,695.00

Includes: Confocal 20 cm Cavity { *Finesse ~ 100, Mirror reflectivity >99%, Center Freq., 780 nm. Bandwidth 80nm (99% reflectivity)* } · Iris · 2 Support Posts and bases · Manual

***FP1-A requires a variable frequency laser**

(Side bands observable with DLS1-A & RF signal generator)

Faraday Rotation, FR1-A*

Basic Instrument \$ 1,250.00

Includes: Laser Light Source · Solenoid · High Verdet Constant Glass Rod · Optical Detector · Linear Polarizer in Calibrated Rotating Mount · Mounting Base · Instructor/Student Manual

Enhanced Instrument \$ 1,595.00

(Includes Power/Audio Amplifier PAA1-A)

3 or more Enhanced units 1,555.00

Premium Instrument \$ 1,795.00

(Includes PAA1-A & Volteq Power Supply)

Recommended Accessories/Additional Parts:

Liquid Cell (Pair) 295.00

Additional Glass Rod 149.00

Power/Audio Amplifier 435.00

Volteq Power Supply (HY3006D) 256.00

Signal Processor/Lock-In. (SPLI-A) 2,795.00
(SPLI-A needed for AC Measurements)

Hall Effect Probe (if purchased with FR) . . . 395.00

***NOTES – FR1-A requires power supplies**

Solenoid: Current regulated supply capable of 3-6 A

Laser: Voltage regulated supply, 4 volt, 40 mA, such as PAA1-A. PAA1-A can also provide the Audio Amp function for AC measurement.

AC Measurement needs a Lock-In such as SPLI1-A

Foundational Magnetic Susceptibility

Complete Instrument. \$ 1,635.00

Includes: Microbalance, Sample Manipulator, Material Samples (16), Sample Containers (24), Suspended Magnet, Current-Loop Calibrator, Graphite Levitation Kit, Manual

Fourier Methods, FM1-A*

Complete Instrument* \$ 9,125.00

Includes: Stanford Research Systems SR770 Spectrum Analyzer (w/USB Port) · Electronic Modules (*Analog Summer, Analog Multiplier, Audio Mixer, Radio-Frequency Mixer; Analog High-Low-Bandpass Filter, Wide-Band Amp, Power Audio Amp, Speaker; Voltage-Controlled Oscillator for FM Generation, DC Voltage Supply; Lorenz Analog Chaos, LCR Resonance, 'Buried Treasure' for Signal-Under-Noise, Intermodulation Distortion*) · Accessories for Audio (3.5 mm/BNC) Interconnections · External Experiments (*Fluxgate Magnetometer · Acoustic Resonator · Coupled Oscillator*) · Accessories (*Microphone · AM Antenna · Universal Power Supply · Cables/Connectors*) · Instruction Manual

TeachSpin Physics Package \$ 4,495.00

Includes: Electronic Modules · External Experiments** · Instruction Manual

*** FM1-A Requires Low End Digital Oscilloscope, a DC Power Supply and a Function Generator**

Recommended Accessories:

Rigol DG1022 function Generator. 485.00

Volteq Power Supply (36 Volts, 3 Amps) . . 255.00

** External Experiments can be sold separately (Inquire)

Hall Effect Probe, HE1-A

Complete Instrument \$ 425.00

3 or more units 390.00

Includes: Probe with axial and radial detectors · Non-magnetic base and support rod · HECK1-A Calibration Kit (*Helmholtz 4" coil form, support for coil form, 4 spools of wire for student use.*)

Magnetic Force, MF1-A*

Complete Instrument * \$ 485.00

5 or more units 470.00

Includes: Helmholtz Coils · Tower with Cap · Magnetic Dipole in Gimbal · Calibrated Spring · 1 g weights (set of 5) · Instructor/Student Manual

Accessories/Replacement Parts:

Volteq HY6003D Power Supply 255.00

Hall Effect Probe (if purchased with MF) . . 390.00

Tower with Cap 55.00

Magnetic Dipole in Gimbal 87.00

Brass Rod & Spring 21.00

Spring 14.00

1 g weights (set of 5) 4.00

***MF1-A requires a 36 volt, 3 A, current regulated power supply such the Volteq HY6003D**

Magnetic Torque, MT2-B

Complete Instrument \$ 3,295.00

Including Magnetic Force Balance Kit

3 or more units 3,195.00

Includes: Magnet Coils · Air Bearing · Power Supply · Air Pump · Electronics for Strobe Light and Counter · One Magnetic Sphere · Magnetic Force Balance Kit · Rotating Magnetic Field · Gravitational Torque Arms and Sliding Weight · Instructor/Student Manual

Magnetic Torque, MT2-B continued

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Recommended Accessories:

Magnetic Force Tower Kit 170.00

Includes: Tower with Cap, Dipole in Gimbal,

Spring on brass rod, Weight, Tower with Cap

Hall Effect Probe (if purchased with MT) . . . 390.00

Replacement/Additional Parts:

Additional Magnetic Sphere. 85.00

Replacement Air Pump 175.00

Replacement Torque Arm 12.00

Sliding weight for Torque Arm. 19.00

Magnetic Force Balance, for MT1-A 285.00

Without Rotating Magnetic Field, deduct \$ 140.00

Modern Interferometry, MI1-B*

Complete Instrument* \$ 16,950.00

Includes: Kit contains all elements to configure Michelson, Sagnac or Mach-Zehnder Interferometers and to perform a wide variety of experiments.

Proprietary Apparatus: *Translational Stage, High Stability Mirror Mounts (3), Optics for Quadrature Detection, Large Area Photodiode Detectors (2), Solenoid, Pressure Transducer, Light Sources (4), Electronics for Fringe Counting – (optics with bases)*

All Parts for Experiments on: *Index of Refraction of Gas, Electro-optic Effect, Magnetostriction, Piezo Electricity, Thermal Expansion, White Light Fringes, and Absolute Spatial Dimension.* Optical Breadboard with Stabilizers · Instructor /Student Manual

* **Customer must supply power for white light source**

Magnetostriction experiments require a current regulated 36 volt, 3 A powers supply

Recommended Accessory:

Volteq Power Supply 255.00

Complete without Breadboard . . . \$ 16,385.00

Optical Detector, MIOD1-A \$ 465.00

Includes: Complete Mounting Hardware · Large Diameter Photodiode with Low-Noise Preamp

Flexure Mount w/ Mirror, MIMM1-A . . . \$ 495.00

Includes: High-Stability Flexure Mirror Mount · Base ·

Extra Mirror (Please specify Horizontal or Vertical Hinge)

*Prices for Individual Components available upon request.

Muon Physics, MP1-A*

Complete Instrument* \$ 4,995.00

Includes: Detector Module containing Scintillator, Photomultiplier, High Voltage Power Supply, LED with Variable Pulser · Electronics · Software with Source Code Instructor/Student Manual

***Requires User Supplied Computer**

Noise Fundamentals, NF1-A*

Complete Instrument * \$ 8,275.00

Includes: High-Level Electronics Controller, Low-Level Electronics Controller, Temperature Module w/ Probe, Break-out Box, Clear Dewar in Adjustable Height Support, Coax Cables, 45 Watt +/-15 Volt Power Supply, Hook Up Wire, Resistors, Transistors, Diodes, Photodiode in Holder, Light Bulbs and LEDS, Spare Operational Amplifiers, Instructor / Student

Manual ***Requires User supplied Low End Digital Oscilloscope, a Good digital voltmeter and a Function Generator such as the**

Rigol DG1022 function Generator. 485.00

Optical Pumping, OP1-E*

Complete Instrument* \$ 14,875.00

Includes: Rubidium Lamp High Homogeneity Horizontal and Vertical Magnetic Field Coils on Base · Complete Optical System (*Absorption Cell, Interference Filter, Linear Polarizer, $\lambda/4$ Wave Plate, Optical Rail, Optical Detector/Preamplifier, Lenses*) · Cell Heater · Complete Electronic Controller (*RF Amplifier, Detector Amplifier, Horizontal Magnetic Field Sweep, Vertical Field, Temperature Controller, Internal Power Supply*) · Instructor/Student Manual

Recommended Accessories:

Rigol DG1022 function Generator. 485.00

Auxiliary High Current Power Supply,

Volteq HY6003 255.00

Circuit Diagrams 100.00

Rubidium Lamp \$ 3,450.00

Available Independently, See Individual Components

REQUIRES Power Supply Capable of 28 V/0.5 A

*NOTES:

1. **For basic operation, OP1-E requires an RF Signal Generator, 100 kHz – 20 MHz.**
2. **High Magnetic Field Experiments require an additional power supply ≥ 36 V, 3 A (Volteq)**

Power/Audio Amplifier, PAA1-A

Complete Instrument \$ 435.00

Includes: Electronics described below, Universal “Brick-on-a-rope” Power supply, Instruction Manual

Specifications:Freq. Range: DC-20 kHz

Gain: Variable

Max Outputs: 1.0 A (Peak), 10 Volt (Peak to Peak)

Laser Power Supply: 4.1V@ 0.1A



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Pulsed NMR Spectrometer, PS2-C

Complete Instrument \$ 18,150.00

Includes: New 1-D Imaging Capability and Layered Sample Kit, Magnet with Sample Head, Gradient Coils and Temperature Stabilizer · Mainframe Electronics (Power Supply, Receiver, Pulse Programmer, 21 MHz OSC/AMP/Mixer. Lock-In Amplifier) · Gradient Coil/Temperature Controller · 7 BNC Cables · AC Power Cord · Sample Case with 50 Vials and Caps · Instructor/Student Manual

Recommended Accessories:

Circuit Diagrams. 125.00

Replacement Parts: 50 Vials with Caps 75.00

PNMR Without Magnet – Inquire

Quantum Analogs QA1--A

Complete Instrument* \$ 4,495.00

Includes: Atom-Molecule Models (4 Aluminum Hemispheres - one with built-in speaker and microphone, one with built-in microphone) · Band Gap Model (base, speaker, microphone, 2 sets of cylinders, 3 sets of iris) Complete Electronics (AC low noise Amplifier, Amplitude Detector, Frequency to voltage converter) · Instructor/Student Manual

Recommended Accessory:

User Computer with Sound Card **Inquire**

* QA1-A requires a Sine wave generator capable of producing 1-50 kHz with a peak-to-peak voltage of 0.50 V such as the

Rigol DG1022 Function Generator. 485.00

Room Temperature Hall Effect

Experiments

Complete Instrument \$1,625.00

Includes: p-type & n-type Silicon Samples, and Copper Sample

Recommended Accessory:

Additional Silicon Sample..... \$395.00

Evaporation Substrates.....1-9 \$20 each,
\$150 for 10

Additional Semiconductor Samples..... Inquire

Fluke 287 Multimeter.....\$495.00

Signal Processor/Lock-In Amplifier,SPLIA1-A

Complete Instrument \$ 2,795.00

Includes: Preamplifier · Filter · Low-Pass Amplifier · Oscillator · Phase Shifter · Noise Generator · Attenuator · Amplitude and Lock-In Detector · Seven Short BNC Cables · Instructor/Student Manual

Recommended Accessory:

Power/Audio Amplifier PAA1-A 435.00

Circuit Diagrams 75.00

Volteq Power Supply (36 Volts, 3 Amps) . . . 255.00

SPAD- Single Photon Avalance Diode

Complete Instrument. \$ 395.00

Includes: INQUIRE

Torsional Oscillator TO1-A*

Complete Instrument* \$ 3,925.00

Includes: INQUIRE

6 or more units 3,825.00

* Driven oscillation experiments require a function or signal generator capable of 0.1 – 10 Hz. For high Q measurements, a frequency resolution of 0.01 Hz will be needed such as the Rigol DG1022

Recommended Accessory:

Rigol DG1022 Function Generator. 485.00

NEW Torsional Oscillator Auxiliary

Electronics AE1-A*

Complete Instrument* \$ 795.00

Includes: INQUIRE

Two-Slit Interference,

One Photon at a Time, TWS2-A

Complete Instrument \$ 6,925.00

Includes: U Channel with Optics · Power Supply · Cables · Detachable Detector System including Photodiode and Photomultiplier · Pulse Counter/Interval Timer · Instructor/Student Manual

Replacement/Additional Parts:

Replacement Slits 155.00

Stand Alone Accessories

Power Supply Volteq HY6003D . . . \$ 255.00

Rigol DG1022 Function Generator . . \$ 485.00

**RF Signal Generator
100 kHz – 450 MHz \$ 275.00**

**Pulsed Counter/Interval Timer
PCIT1-A \$ 785.00**

Individual Components

Breadboard Only \$ 945.00
Black Anodized Aluminum 24" x 36" x 1/2"

Breadboard with stiffening ribs . . . \$ 1,095.00
(Required for MI1-A Kit)
Black Anodized Aluminum 24" x 36" x 1/2"



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Rubidium Lamp \$ 3,475.00

Includes: Rb 9 mm diameter bulb, 75 – 90 MHz RF oscillator, 120 °C temperature regulated oven, Natural isotopic concentration with 3 Torr Xenon buffer
REQUIRES Power Supply Capable of 28 V/0.5 A

Photodiode Photodetectors

Spectral Range: 400 – 1000 nm, Variable Gain
Power Supply Required: ± 12 V

Includes: Complete Mounting Hardware · Large Diameter Photodiode with Low-Noise

Small Area (31 mm²)-For DLS & OP \$ 435.00

Large Area (100 mm²) For MI. \$ 465.00

High-Stability Flexure Mirror Mount

with Base and extra mirror For MI . . \$ 495.00

Please Specify Horizontal or Vertical Hinge.

GAMPT Scan/

UltraSonics Echoscope. \$ 4,708.00

Training at TeachSpin \$ 500.00

Includes: Full day of on-site training at a mutually convenient time

Due to our vendor(Gampt) being located in Germany and the fluctuating Euro value, prices are subject to change without notice

TeachSpin Pulsed UltraSound Physics

Package, USPP1-A \$ 8,611.00

Includes: Ultrasonic Gel • Ultrasonic Echoscope GAMPT-Scan • 4 Ultrasonic Probes (1 -1 MHz, 2- 2 MHz, 1- 4 MHz) • Black Test Block • Cylinder Set (3 cylinders, support, holder block) • Shear Wave Set w/ Samples (acrylic/aluminum samples, reservoir, probe support) • Acoustic Impedance Samples • TeachSpin Proprietary Manual

For Additional Experiments Using USPP1-A:

- Hydrophone Set..... 720.00
- 2 Rayleigh Wave Attachments..... 196.00
- Rayleigh Waves Test Block 205.00
- Set of Reflecting Plates. 137.00
- Lambda Plates..... 174.00
- Lambda Wave (Surface Wave) Set 1,572.00
- Ultrasonic Probe 1 MHz. 647.00

Extensions for use with TeachSpin’s Physics Package, USPP1-A

Ext A: Medical Extension, USA-M . . . \$ 454.00

Includes: · Heart Model • Breast Dummy w/ Tumor

Accessories sold separately:

- Eye Dummy490.00
- Ultrasonic Probe 1 MHz.646.00
- Ultrasonic Probe 4 MHz.646.00
- Ultrasonic Gel.....16.00

Ext B: Engineering. & Material Science, USB-E \$ 813.00

Includes: Angle Beam Wedge 17° • Angle Beam Wedge 38° • Transceiver Delay Line (TOFD) • Test Block for Angle Beam Probe • Crack depth Test Block

Accessories sold separately:

- Discontinuity Test Block.....111.00
- Acoustic Impedance Samples.....222.00

Ext C: CT & Scanning Methods, USC-CT \$ 5,380.00

Includes: CT Scanner • CT Control Unit • CT Water Reservoir • Hydrophone • Hydrophone Support • CT Sample Holder

Kits Available for other Ultrasonic Phenomena

Debye-Sears Effect/Continuous Wave

Ultrasonics, USDS-G5 \$ 5,264.00

Includes: CW Generator SC600 • Complete Set Debye-Sears Effect (*Multifrequency Ultrasonic Probe (1-13MHz), Red Laser Module~ 652 nm, AOM Probe Adjustment, AOM Sample Reservoir • Green Laser Module, ~ 532 nm • Additional AOM Sample Reservoir • Cover for Reservoir • Projection Lens • Ultrasonic Absorber*

Accessories sold separately:

- Hydrophone Set720.00
- Adjustable Reflector129.00
- Photodiode Receiver370.00
- Ultrasonic Absorber..... 370.00

Ultrasonic Doppler Effect,

USDE-G6 \$ 8,757.00

Includes: Ultrasonic Gel • Ultrasonic Pulse Doppler - FlowDop • Ultrasonic 1/2/4 MHz Probe • Centrifugal Pump - Flow Measuring Set • Doppler Dummy Fluid • Standpipes

Accessories sold separately:

- Doppler Prism 3/8” 122.00
- Doppler Probe 725.00
- Double Reservoir 918.00
- Arm Phantom 986.00
- Blood Pressure Cuff227.00

Other individual parts – inquire