



ENERGY INDIA SCIENTIFIC PRODUCT BROCHURE



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LASER DIAGNOSTIC DEVICE LASER POWER & ENERGY METER

- Laser Power meter-Pw-kW
- Laser energy meter –Pj-J, up to 25Hz
- USB interface Laser power/Energy Meter
- Multi-channel Laser power/Energy meter
- Wireless Laser Power/Energy meter
- Beam track power/position/size sensor

LASER BEAM PROFILER

- Laser Beam Profiler(CCD based and SI)
- Focused Beam Analyzer
- CO2 Laser Beam Profiler
- M2-Measurement System
- Single Shot Laser Beam Profiler
- Divergent Laser Beam Profiler
- Temporal Profiler of Pulsed Laser
- Telecom Laser Profile
- THz Imaging Beam Profiler
- Laser Beam Dump, IR Card & IR Cor Autocorrelator
- Laser Safety Goggles, IR Viewer
- Ultra Fast Detector(1 ns)

WAVELENGTH METERS

- Wavelength Meters(for CW & Pulsed Laser Sources)
- Laser Spectrum Analyser- Accuracy up to 6000MHz
- High Definition Spectrum Analyser-for emission spectra of any comp
- Stabilized Laser Source for Wavelength meter

LASER SOURCES

- Laser Diode Array- CW-20W CW 1-Bar Laser Diode Array
- Laser Diode Array- QCW-50W QCW 1-BAR Laser Diode Array
- High Power Laser Diode-100W CW/300W QCW
- DPSS Laser System-1064/532>400w
- Laser Diode Drivers –CW & Pulsed Operating modes
- IR Laser Module-Pulse pumped high energy(>4J Per pulse)
- High Efficiency Fiber Laser for LIDAR
- Fiber Laser (high power, 1064nm-1030/1080nm, CW)
- Electro-optic phase Modulator
- DPSS Laser /Diode Laser-True SLM Laser
- Micro chip laser
- Super continuum laser source(Avg. power 8W, 450-2500nm Tu)
- Fiber laser (up to 15w, 1um-1.5um, CW/PULSED)

- Multi Channel, Narrow Line width, Single-Frequency fiber
- High power OPO
- Single Freq OPO & Broad band OPO

OPTO-ELECTRONIC COMPONENTS PHOTONIC DETECTORS

- UV Sensor-Fire & Flame
- Si-Photo Detector & Si-PIN Detector
- PSD(1D & 2D)
- APDs, Two Color Detector & RGB detector
- MCT detector
- Thermopile Detector
- PbS Detector & InSb
- Linear Image Sensor(CMOS, CCD, InGaAs)
- X-Ray Detector
- MCP
- Spatial Light Modulator

PHOTO MULTIPLIER TUBE & ACCESSORIES

- Photomultiplier Tube & Accessories
- PMT Module
- Accessories of PMT for spectroscopic application
- MPPC

CAMERA AND OTHER DEVICES

- CCD camera (upto 4MP)
- NIR camera ICCD cameras
- X-ray camera ICCD camera
- Thermal Imaging Camera
- Photo Ionizer SYSTEM

SOLAR PV TESTING SYSTEM

- Solar Simulator (classAAA)
- Dual Lamp Based Solar Simulator
- Long Pulsed Solar Simulator
- LED Solar Simulator
- Spectral Response Measurement System
- Quantum Efficiency Measurement System
- IV-Measurement system
- Electro-luminescence Measurement System
- Light soaking measurement system
- Device to measurement correct solar simulators Temporal Instabilities
- Light Intensity Measurement Device
- Thermal Imaging Cameras-8-14um, 2200 Degree

SOLAR LAB SET UP

- Set up for PV Module
- Training Kit
- Solar Water Pumping and Solar Power Pack
- PV System Losses
- Inverter Setup

- Set up for PV array
- Set up for DC-DC & DC-AC Conversion
- Set up for MPPT Training System
- Set up for Solar PV Tracking System

SOLAR ROOF TOP (kW) & POWER PLANT SETUP

LED MEASUREMENT SYSTEM

- LED Test & Measurement System
- LED Station-for mass production set-up
- Displays Test & Measurement System
- LED Station for mass production set-up
- Displays Test & Measurement System
- Spectroradiometer
- Colorimeter
- Goniophotometer LED Measurement for spatial pattern measurement
- Integrating Sphere for Luminous Flux Measurement
- LED Test Socket
- High power LED TEST SOCKET-WITH ACTIVE COOLING AND HEATING
- Hand Held Intensity Measurement Instruments

MONOCHROMATOR /SPECTROGRAPH

- Monochromator (Focal length up to 1.5 meter) with Light Source
- Spectrograph (focal length up to 1.5 meter) with Light Source
- Tunable Wavelength Light Source-185nm to 2200nm
- Raman System & PL System

FIBER OPTIC SPECTROMETER

- Fiber Optic spectrometer (200-2260nm)
- Replacement slits fiber optics spectrometer
- NIR spectrometer (900-2500nm)
- Wireless spectrometer (up to 259nm)
- Fluorescence measurement system
- Colour measurements system
- Single shot laser spectrometer
- Gemology measurements system
- Vegetable/fruit/water/sugar analysis system
- Thin film thickness measurement system
- Ellipsometer
- Transient absorption spectrometer

HIGH RESOLUTION SPECTROSCOPY

- High Resolution Spectrometer-157-1100nm
- LIBS spectroscopy

- LIBS+Raman combined spectrometer
- Materials Analyser

OTHER SPECTROSCOPIC DEVICES

- Optical chopper, Lock-in Amplifier
- IR-EMITTER, UV Detector

ELEMENTAL ANALYZER

New Generation C-S Analyzer

New Generation O-H-N Analyzer

Elemental analysis is an important factor in determining the characteristics and performance of various materials. In recent years, it has become increasingly important to accurately analyze the carbon and sulfur content in a variety of materials, including steel, electronic materials, catalysts, and alloys. Expertise in analysis – for example pre-treatment - is important in accurately measuring the carbon and sulfur content in various materials. We offer customers all the support necessary to accommodate increasingly advanced materials; not only by improving the accuracy of the analysis equipment, but also by assisting in actual analysis processes. Simultaneous oxygen/nitrogen/hydrogen elemental analyzer with high accuracy and repeatability suited to advanced R&D as well as quality control in the markets of steel, new materials, catalysts and many others. This is a new generation model optimized to fit the user's needs

PORTABLE FLUE GAS ANALYSER

For measuring O₂, CO, CO₂, NO, NO₂, NO_x, SO₂, CH₄, H₂S, Draft, Temperature Long life electrochemical and NDIR Sensor Strong suction pump

WATER QUALITY ANALYSER

Comprehensive range of Pocket, Handheld /Portable, Bench Top & On-line meters for pH, Conductivity, DS, Salinity, Dissolved Oxygen, Turbidity, Temperature etc. Spectrophotometers, Ion meters, Flame Photometers, Colorimeters, Colony Counters, Pyrogen Testing, Comparator, COD, BOD Digestion Systems Field Test Kits : Electronic, titrimetric for environmental studies, water, industrial water, waste water, ground water, food, aquaculture reagents & chemicals etc. Portable & online oil content analyzer.

FORENSIC LABORATORY INSTRUMENTS & SOFTWARE

Advanced Finger Print Comparison Software

Forensic Light Source Applications:

Wavelengths and Uses

The Who, What, Where, and When of Wavelengths

Mini-CrimeScope® MCS-400

The premiere crime scene forensic light source.

Quite possibly the world's most popular Forensic Light

Scene Scope® Advance™ RUVIS

Scenescope® Advance™ RUVIS Imager uses intensified UV reflectance instead of fluorescence for the detection of evidence Source.

HandScope® Xenon FLS HSX-5000

The next generation HandScope® with new improved UV filter technology

GENERAL LABORATORY PRODUCTS

Sartorius Range Of Product

1. Weighing Equipments
2. Moisture Analyzer
3. Water analyzer
4. Ph Meter
5. Ultrasonic Homogenizer
6. Centrifuges
7. Shakers
8. Lab Water System
9. Fermentor
10. Membrane Filter
11. Syringe Filter
12. Vacuum Pump
13. Filter Holder PERKINELMOR
14. AAS (Atomic Absorption Spectrophotometer)
15. Spectrophotometer
16. FTIR
17. GC (Gas Chromatography)

HPLC OLYMPUS MICROSCOPES

1. Inverted Microscope
2. Fluorescence Microscopes
3. Stereoscopic Microscope
4. Photographic Attachments For above Microscope
5. Inverted Phase Contrast Microscope
6. Up Right Microscope

EPPENDORF RANGE OF PRODUCTS

1. Centrifuge
2. PCR
3. Deep freezer
4. RTPCR

ELICO RANGE OF PRODUCTS

1. Atomic Absorption Spectrophotometer(AAS)
2. Spectrophotometer(UV/UV-VIS)

3. PH meter
4. Conductivity Meter
5. Flame Photometer
6. EC-TDS
7. Water Analysis Kit
8. DO meter
9. Colorie Meter
10. Auto Analyzer
11. Bio-Spectrophotometer

Other Laboratory range of products

A) LABORATORY EQUIPMENT

1. Autoclave Vertical
2. Autoclave Horizontal
3. Autoclave Mini
4. Antibiotic Zone Reader
5. Air Curtain – CRCA / M.S. Body
6. Auto Titrator/ Potentiometric Titrator
7. Bulk Density Apparatus
8. Balance – Single Pan
9. Balance – Auto Calibrated High Precision
10. Conductivity Meter – Digital
11. Colony Meter
12. Centrifuge Medico
13. Centrifuge – Remi Lab
14. Distillation St. Steel Water Apparatus – Lab Model
15. Distillation Glass Apparatus Electrically Heated
16. Disintegration Test Apparatus for Tablets – Without Water Bath
17. Disintegration Test Apparatus for Tablets – With Water Bath
18. Dissolution Rate Test Apparatus – Eight, Six & Single Stage
19. Dehumidifier
20. Dispensing Chamber – Clean Air Powder
21. Dessicator Vacuum & Plain
22. Emulsifier – Lab
23. Eye Splashing Unit
24. Electronic Weighing Balance
25. Flame Photometer Digital
26. Friability Test Apparatus
27. Fume Hood – For Chemical Application
28. Foam Height Measuring Equipment
29. Humidity Chamber
30. High Precision Oil Bath – with Stirrer
31. Hot Plate Laboratory
32. Heating Lab Plate with Cast Iron Top
33. Hardness Tablet Tester – Monsanto Type
34. Hardness Tablet Tester – Pfizer Type
35. Hygrometer
36. Humidifier

37. Incubator Universal (Mammert Type)
38. Incubator – B.O.D.
39. I. R. Moisture Balance
40. Karl Fisher Auto – Titrator
41. Leak Test Apparatus
42. Laminar Flow – Wooden Frame with Sun mica Top
43. Laminar Flow – Epoxy Coated, Mild Steel Made
44. Laminar Flow – Stainless steel made
45. Muffle Furnace Rectangular – Laboratory Model
46. Muffle Furnace – Industrial Model (High Temperature)
47. Mantles Heating – Fitted with Energy Regulator
48. Melting Point Apparatus
49. Magnetic Stirrer with Hot Plate
50. Microscope
51. Micrometer – Screw Gauge
Micropipette Different Volume Range
52. Oven Hot Air
53. Oven Vacuum
54. Polarimeter
55. pH Meter – Digital Paper Bursting Strength Tester – Motorized
56. Refractrometer
57. Stability Chamber – With Cooling Arrangement
58. Stirrer Laboratory
59. Sieve Shaker
60. Shaker – Rotary
61. Shaker Vortex (Test Tube Shaker)
62. Shaker Machine (Wrist Action)
63. Sampling Booth
64. Sonicator (ultrasonic bath)
65. Substance indicator for GSM (Grams Sq.Per Meter)
66. Thin Layer Chromatography Kit
67. Ultraviolet Lamp Assembly
68. U.V. Tube with Fitting
69. U.V. Spectrophotometer “Systronic make”
70. Vacuum Suction Pump – Rotary
71. Vernier Calliper
72. Vacuum Evaporator Rotary – Buchi Type
73. Water Bath Rectangular – Double Walled
74. Water Bath – High Precision Thermometer with Stirrer
3. Bottle Drying Oven
4. Air Pressure Assembly for Cleaning of Poly Empty Bottles
5. Turn Table (Unscrambler / Scrambler) – GMP Model
6. Automatic Volumetric Liquid Filling Machine
7. Semi Automatic Volumetric Liquid Filling Machine – Double Head
8. Semi Automatic All Purpose Filling Machine – Single Head
8. Foot Operated All Purpose Filling Machine
9. Pouch Filling & Sealing Machine – Automatic For Liquids
10. Bottle Inspection Table
11. High Speed Dissolver & Stirrer Machine
12. Suspension Assembly
13. Stainless Steel Mixing / Storage Tank
14. Primary Syrup Vessels
15. Double Walled Jacketed Heating Tank
16. Stainless Steel Double Jacketed Triple Walled Electrically Operated Oil Heating Tank
17. P.P. Cap Sealing Machine
18. Stainless Steel Chain Conveyor Machine
19. Packing Conveyor Belt
20. Industrial Motorized Stirrer with Lifting System
21. Emulsifier / Homogenizer with Lifting System
22. Horizontal Plate Filter Press Machine
23. Transfer Pump
24. Barrel Pump
25. Vacuum Filter Liquid Tank With Tap
26. Water Deionizer Plant
27. H.D. Purified Water Storage Tank
28. Electrostatic Fly Exterminator
29. Liquid Sampling Cup with Rod
30. Stainless Steel Stirring Rod
31. High Pressure Gas Assembly
32. Shrink Wrapping Assembly
33. Batch Printing Machine – Hand Operated / Motorized
34. Label Gumming Machine – Hand Operated / Motorized
35. Plate form Balance
36. Counter Balance
37. Set of Weights
38. Electronics Weighing Balance
39. S.S. Sieve in St. Steel Frame
40. S.S. Sieve in Wooden Frame
41. St. Steel Scoops: mounted in non friable wooden frame

B) LIQUID SECTION

Sl.No. Name of Item

1. Bottle Washing Machine
2. Rotary Bottle Washing Machine

42. Potentisation stroking machine / potentiiser
43. Fully automatic label coding machine
44. Colloid Mill

C) CAPSULE SECTION

Sl.No. Name of Item

1. Automatic Capsule Loader Machine – GMP Model
2. Capsule Filling Machine – 300 Hole
3. Capsule Filling Machine – 100 Hole
4. Capsule Counter – Hand Operated
5. Double Cone Blender
6. Portable Mechanical Shifter
7. Semi Automatic Capsules Counting & Filling Machine
8. Disintegration Test Apparatus for Capsules – Without Water Bath
9. Disintegration Test Apparatus for Capsules – With Water Bath
10. Dehumidifier
11. Hygrometer
12. Stainless Steel Tray for Capsule Filling Machine
13. Stainless Steel Tray for Powder Mixing
14. Stainless Steel Funnel
15. Dispensing Balance
16. Stainless Steel Scoops
17. Single Pan Balance

D) HERBAL SECTION

Sl.No. Name of Item

1. Blender – Double Cone
2. Ball Mill
3. Disintegrator
4. End Runner – For Wet Material
5. Extraction Continuous Hot Herbal Cum Solvent Collecting Unit
6. Hydro – Type Bucket
7. Kharal Electric Procelain – For Dry Material

8. Karahi St. Steel P
9. Pulverizer Mini – Made of St. Steel
10. Pulverizer Mini – Made of Mild Steel
11. Pulverizer Cyclone Type – Made of St. Steel
12. Pulverizer Cyclone Type – Made of Mild Steel
13. Pulverizer Impact
14. Pulper
15. Pills Making Machine – Hand Operated
16. Pills Making Machine – Motorized
17. CONICAL PERCOLATOR
18. Shifter – Portable Mechanical
19. Sieve S.S. in Steel Frame
20. Sieve S.S. Sieve in Wooden Frame
21. Soxhelet Extraction Apparatus
22. Tincture Press

E) OINTMENT SECTION

Sl.No. Name of Item

1. Three Speed Planetary Mixer
2. Double Speed Planetary Mixer – Special Type
3. Double Speed Planetary Mixer (Special Type / Heavy Type) With Motorized Lifting
4. Vacuum Planetary Mixer
5. Vacuum Planetary Mixer (Special Type – Heavy Duty)
6. Double Jacketed St. Steel Paste Making Kettle (Electric Operated)
7. Double Jacketed St. Steel Paste Making Kettle (Steam Operated)
8. Semi Automatic All Purpose Filling Machine (Single Head)
9. Foot Operated All Purpose Filling Machine
10. Ointment Mill / Homogenizer
11. Hand Operated Tube Crimping & Batch Numbering Machine
12. Colloid Mill

We undertake total laboratory setup with specification framing

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