
LET'S INNOVATE

About Us



New Age Instruments & Materials Pvt. Ltd.[™], an ISO 9001:2015 certified company, started in 1999 under the able guidance of Dr. Gyaneshwar Dutt & Mr. Tapan Sharda.

Mr. Tapan Sharda a seasoned technocrat is in the field of scientific Instruments and applications since 1992. Both of them had a vision for New Age to be a bridge between State of the Art Technology across globe and Indian scientific as well as industrial customers.

Dr. Gyaneshwar Dutt in the past has worked as a Research Scientist in various premier institutes in India like IIT Delhi, NPL and DRDO(SSPL). He started his research career in 1964 and still actively participating in New Age R&D activities.

With our dedicated team of 50 strong technocrats which has a perfect blend of young as well as experienced Technical Team who are spread across PAN India we are able to provide a solution to our customers as well as able to find best fit for our overseas partners product to meet the research and application need.

We **M/s New Age Instruments & Materials Pvt. Ltd., Gurgaon** are continuously working in the fields of lasers, Opto-Electronics, Optical designing, spectroscopy-Detection systems, Laser diagnostics, Embedded Electronics, Mechanical design & fabrication with our own **Indigenous products** which has been recognized by **DSIR** for In-House Research & Development Activities in India.

In software design side we are working on common platform like C, C++, visual C, embedded C, Verilog, LabVIEW, LabVIEW RT, ANDROID platform.

We are the first Indian company to make indigenous **Raman System** which is duly recognized by Defense Parliamentary Committee after rigorous testing in field applications by various defense and paramilitary forces to identify Explosives and narcotics. Today our made Raman systems are working at LASTEC, IB, BARC, RRCAT, IIT Delhi and some of the very sensitive organization.

We are an **ISO** certified, **DSIR** recognized company with a very strong and dedicated **R&D team** which includes PhD, MTech, B.Tech Engineers. Our company is also registered with **MSME & NSIC** Certification.

Current Govt. Guide line for all procurement (To make Atam Nirbhar Bharat):

Eligibility for all Govt. Procurement: Only '**Class-I local supplier**' and '**Class-II local supplier**', as defined under Public Procurement (Preference to make in India) Order – 2017 vide Order No.P-45021/2/2017-PP (BE-II) dated 4th June 2020, shall be eligible to bid.

- 1) Class-I local supplier – has local content equal to or more than 50%.
- 2) Class-II local supplier – has local content more than 20% but less than 50%.

So, we can proudly say that all of our R&D products are falls in **Class-I local supplier** category.

UV Blaster – Uvc Light Based Disinfection System

UV-Blaster is based on DRDO Technology which is engineered & manufactured by New Age Instruments and Materials Private Limited, Gurugram. It has Chemical free treatment, 360 degree illumination, wireless operation up to 20 meter distance.

- < **Disinfection Tower**
- < **Disinfection Box**
- < **Disinfection tube**
- < **Air Sanitizer/Purifier**



SEEKER Detector Series

- < **Balanced Photodetector Module**
- < **APD Module**
- < **Position Sensing Detector Module**
- < **PIN Photodetector Module**
- < **Photon Counting Module**
- < **PMT Module**



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Lumen Light Source Series

- < Multi Channel LED with Controller
- < LED Cluster with Controller
- < Tungsten Halogen Light Source with Sample Holder
- < Excimer lamp based Cleaning System



Infinity Laser & Driver Series



- < Butterfly laser Diode Module
- < High Power Laser Diode System
- < High Precision CW & Pulse Laser Diode Driver

Era SM Spectroscopy Module

- < CCD & CMOS Spectrometer (200 – 1100 nm)
- < Multi Channel Spectrometer (up to 10 Channels)
- < NIR Spectrometer (1000 – 2500 nm)



HawkRaman Raman Spectroscopy

- < Portable Raman System
- < Handheld Raman System
- < Free Space Raman System
- < TE Cooled Raman System
- < Confocal Raman System (Resolution 2 – 3 cm⁻¹)



Macro Laser Power/Energy Display Unit Edit

- < Single Channel Power Meter
- < Double Channel Power Meter
- < Four Channel Power Meter



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Our Registration



NARD Indigenous Ongoing Projects

1/ Life time Fluorescence Measurement System

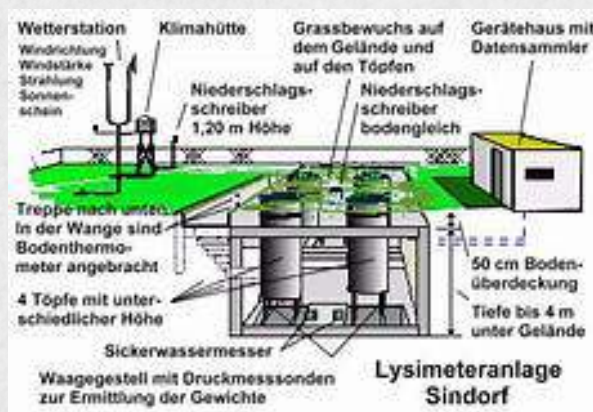
For Life time fluorescence measurement system: Fluorescence lifetime spectroscopy investigates the change in fluorescence over time of a sample when irradiated with the pulsed UV, visible, or near-IR light. This decay in fluorescence can be measured over a wide time range: from picoseconds to milliseconds and beyond.

2/ Smoke & Flame Monitor

Smoke & Flame detector is Effective to detect smoke particles due to both flaming and shouldering fires.



3/ Lysimeter Monitoring soil water balance parameter



4/ Temperature & Gas Monitor System

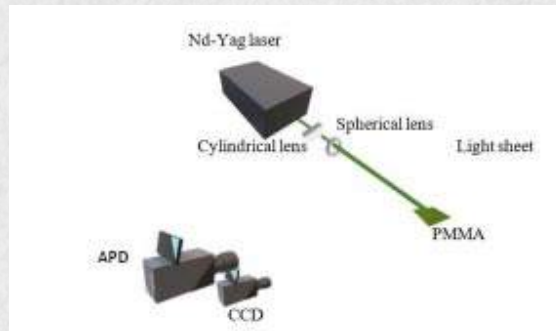
Temperature & Gas Monitor System: We have designed a system measuring High Temperature up to 1200 degree Celsius & Multiple gases coming out of 1000m cube area. The complete system is controlled by a centralize software which is kept in a control room with 48 channel DAQ.

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5 Fast APD Detector

It is a complete setup of photo diode array, an amplifier, a suitable data reader and recorder. It is used in observing a very fast decaying phenomenon of soot radiation. Response time of the order of 50ns or laser.

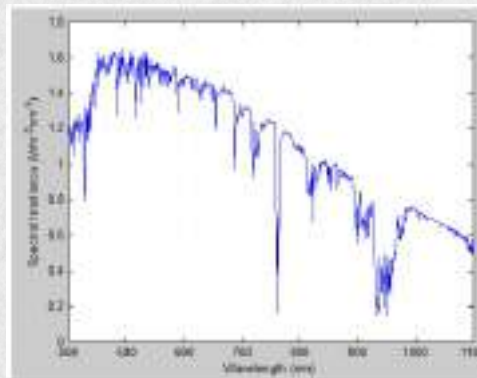


6 Detector Characterization Setup through Programmable IR Source



7 LED Based Solar Simulator

A solar simulator provides a controllable indoor test facility for testing solar cells and photovoltaic modules under laboratory conditions by producing illumination approximating natural sunlight.



NARD Indigenous Previous Projects

- ◀ PSD based Jitter control system
- ◀ 6 channel Laser Ignition system
- ◀ Wavelength Dependent Temporal study of fireball
- ◀ Long Range Bio Agent Detection System
- ◀ Laser Based Wound Healing System
- ◀ Laser Output Diagnostics System
- ◀ Laser Ordnance Disposal System

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Our Partners

We at New Age understand how importance is selecting right equipment and tools to perform any experiment or application. That's the reason we work hard to source them from around the world to ensure we deliver the most reliable Sensors, Lasers, Spectroscopy, Laser diagnostics, Optics, Optomechanicals and Optics metrology tools.

New Age since its start has partnered with world best photonics companies to provide latest technology product to Indian scientific and Industrial community.



Power & Energy Sensors & Meters
Beam Profiling
M Squared - Beam Propagation Analysis
High Power Measurement Solutions



Wavelength
Line width Analyzer
Laser Spectrum Analyzer



Continuous Wave Lasers (473 nm, 532 nm, 561 nm, 640nm, 660nm, 671 nm, 1064nm)
Femto Second Lasers (800nm, 70 – 110 MHz)
Variable Wavelength Laser (720 nm to 920 nm, Energy: >9 nJ, 250 MHz, 50 fs)



Pulsed lasers in nanoseconds, picoseconds, and femtoseconds
Fiber Amplifier
ASE Broadband Source
Fiber lasers with wavelength at 515 nm (Green), 1 μ m, 1.55 μ m, and 2 μ m



High Power CW & Pulse Fiber laser



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Supercontinuum Light Source
Femtosecond & Picosecond fiber Laser
AOTF



Active & Passive Vibration Isolation Table



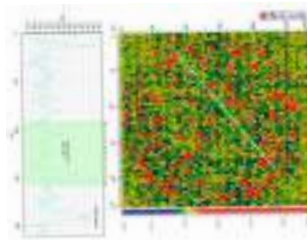
Laser and Optics Experimental Kit



Surface Measurement Solution for Aspherical and free form optics



twyman-Green Interferometers
Fizeau Interferometers IMAGING
POLARIMETERS Dynamic optical profiler
Surface Gauge Coating Assurance Gauge



Wavefront Sensor
Deformable Mirror



Acousto-Optic Modulator (AOM)
Q-SWITCHES (AOQS)
Pockel Cell
POCKELS CELL DRIVERS



Single Mode Optical Fiber
Multi Mode Optical Fiber
High Power Fiber
Collimators & Focus Guides



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Reflection
Transmission
Absorbance
Irradiance
Fluorescence



Photodiodes
Photomultiplier Tubes
Spectrometers
UV & Flame Sensors
Photon Detector



Laser Components
Laser Barriers & Curtains
Laser Windows & Film
Laser Safety Eyewear



Light Sources
Optics
Sensors & Detectors



Pulsed Laser Deposition (PED) System
Pulsed Electron Deposition (PED) System



High-resolution wavefront Sensor
Phase Imaging Camera



hyperspectral imaging solutions



PIV/motion analysis
High Speed Camera
Sperm Analyzer



Digital high speed camera
HAS-071

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