



CIN : U33125KL1993PTC006984
GST No: 32AAACH9492C1ZQ

ISO 9001:2015

HOLMARC
OPTO-MECHATRONICS PVT.LTD

B-7., H.M.T. Industrial Estate, H.M.T. PO, Kalamassery
Kochi - 683 503 Kerala, India.
Email : sales@holmarc.com, PH : 91-484-2540075

R&D data - Holmarc Opto-mechatronics Pvt Ltd

R&D Physics -Members list

1. Muhammad Shafi(Head)
2. Ajith C A
3. Lageesh Madhu
4. Manu Edwin
5. Vishnu Prasad T C

R&D Mechanical -Members list

- 1.Eby M Cherian (Head)
- 2.Villy Varghese T V
- 3.Pramod P
- 4.Shafiq

Facilities

1. R&D lab.
2. Design Lab with Auto CAD
3. Dark room Facility
4. 0 to 4 KG Gauss meter
5. Axial probe type Gauss meter 0-2 KG
6. Digital vernier Caliper
7. Spectrum Sources for wavelength testing-Hg,Na, Ar.
8. He-Ne laser 632.8 nm polarized
9. DPSS laser 532 nm
10. Digital weighing scale 300 gms max.
11. Mercury Thermometer
12. TiO₂ sample for reference thin film thickness measurement
13. CCD spectrometer for wavelength measurement
14. Halogen and Xenon light sources for monochromatic application
15. Narrow band Interference filters
16. IR Filters
17. Optical Fibre cables
18. Power meter for laser power measurement
19. Optical breadboard with support
20. Dedicated thin film coating lab with Vacuum coating machines (PVD), clean room etc.
21. He-Cd laser
22. Holography lab(Recording and reconstruction)
23. Abbe Refractometer



JOLLY CYRIAC
Managing Director





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R&D Products List

- | | |
|--|--------------------------|
| 1. Fluorescence spectrometer | [New System] |
| 2. Double Beam Spectrophotometer UV-VIS-IR | [New System] |
| 3. NNSR Advanced model with monochromator & xenon source | [New System] |
| 4. Scanning Fabry-Perot Interferometer | [New System] |
| 5. Confocal Raman Microscope | [Up gradation Required] |

Development of a new product –Step by Step process

A. Identifying a product

Before developing a new system in to product line we must create a priority category which product to develop. Few steps for this is

1. Identify the Right product by knowing current research activities in a field (whether science/Engineering)
2. direct enquiry from the customer

B. Initial Assessment for the project

1. Time period required for the completion of the project
2. Profit/Fund required for the project.
3. Outsourcing material list
4. Material required within the company premises

C. Creating R&D team for completion of the project

1. Project Head Incharge (Physics R&D member]
2. Structural/Mechanical design [Mechanical R&D Member]
3. Electronics design & circuit Analysis [Electronics R&D member]
4. Optics layout/design [Physics/Optics R&D member]
5. Detailed theory, Instrumentation, Testing &Analysis [Physics R&D member]

D. Final Inspection

QC Analysis [Physics, R&D member]

E. QA Conveyance

Quality Assurance with Product Making, Experimental reports, Functional Analysis from QC
as per ISO standards

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Electronics R&D Division

Holmarc's Electronics R&D division has 12 engineers having expertise in power electronics, opto-electronics, embedded systems and software development. The average experience level for these engineers is 8 years with some of them having almost two decades of experience in the design of different types of instruments.

The Electronics R&D division is involved in the custom product design right from the customer enquiry stage. The customer requirements are analyzed and preliminary product design and costing is done without any delay, which enhances the customer experience. After receiving the purchase order from the customer, a detailed design is prepared and the purchase of raw materials is initiated. After the assembling part of the production process is completed, the engineers in the R&D division is entrusted with the comprehensive testing of the product, before dispatch to the customer.

This division is also responsible for the design and testing for the improvement of the existing products and the development of new products, which does not have a customer order, as the part of the company strategy.

The facilities available in this division are given below.

Measurement devices: Multimeter, oscilloscope, logic analyzer, temperature sensor, magnetic field sensor, optical power meter, vibration sensor, high voltage probe, radiation tester and advanced source measurement unit.

Programming and other embedded system development support devices: Microcontroller programmer, emulator, debugger, evaluation boards for different makes of micro-controllers and motor drives and single board computer.

Production tools: Hand soldering station and reflow oven.

Software tools: PCB design software, Integrated development environment (IDE) and debuggers for various microcontrollers, single board computer application development tools and desktop PC (Windows) application development tools.



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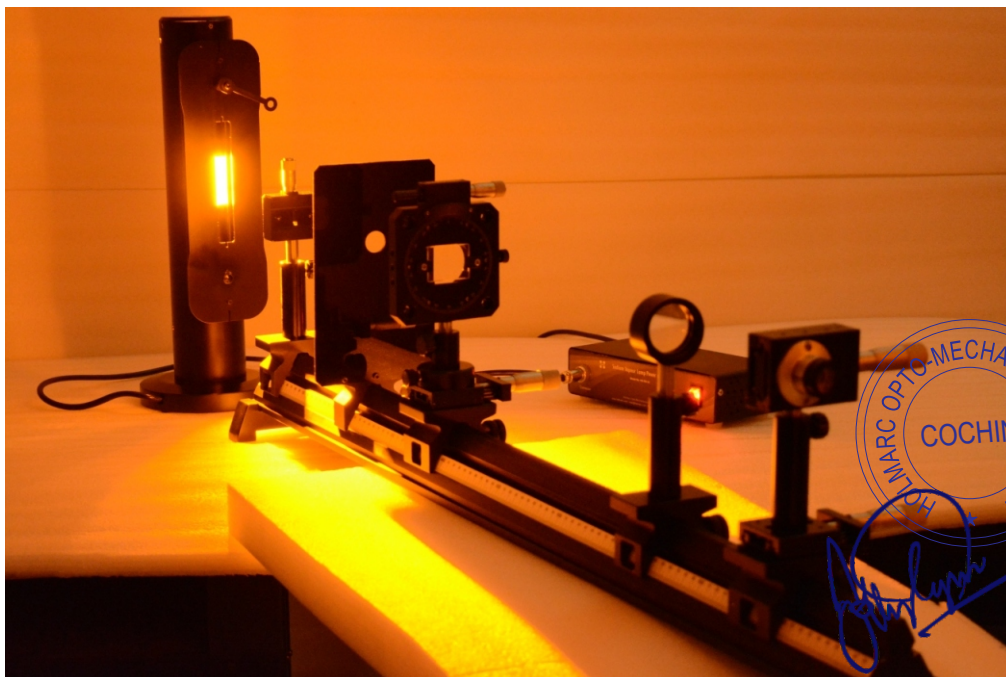
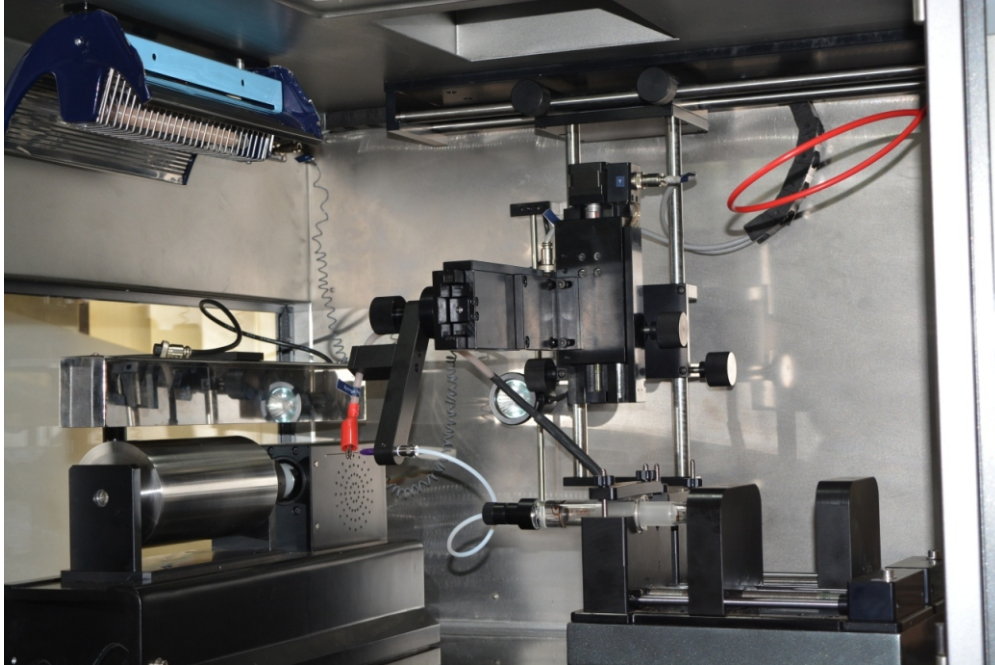


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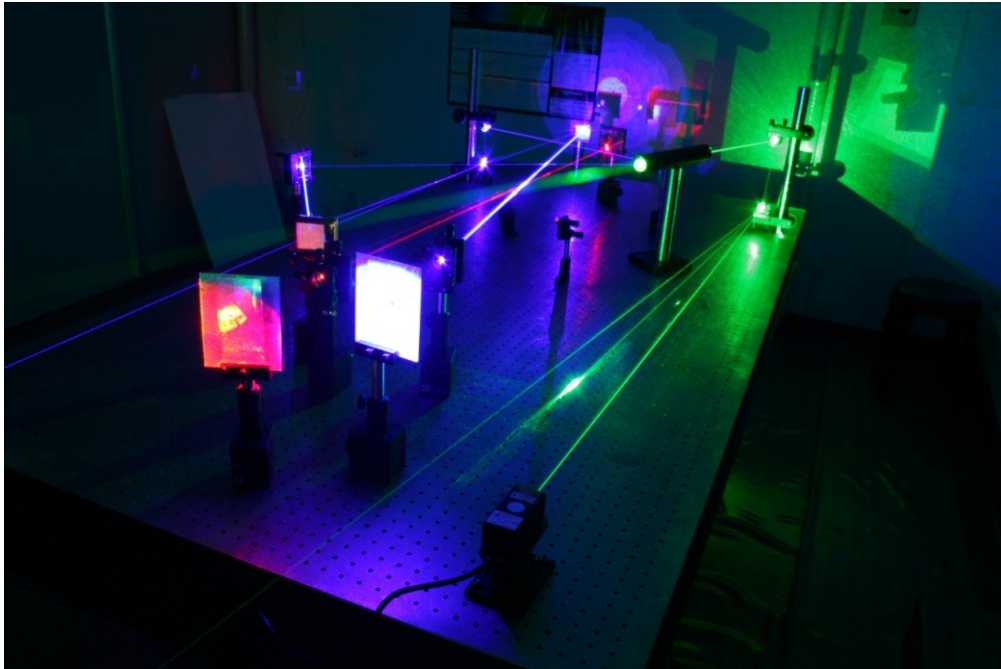


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