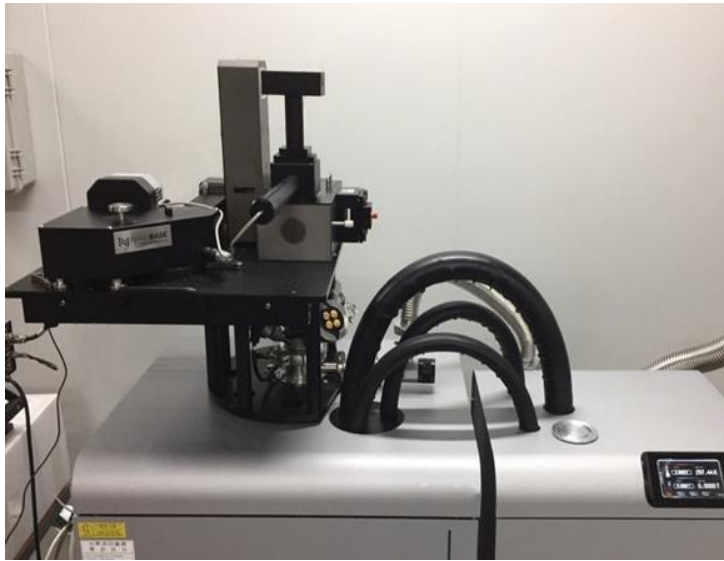


# NANOBASE



## CUSTOMIZATION GUIDE



This fraction of our 130+ customization projects ensures how your dreams can come true with us.



### **Electrolyte and anode material oxidation reaction real-time measuring device**

Customer : Sogang University

- Featuring F1.4 Raman Spectrometer and Raman probe
- Customized Raman probe tip which can be dipped into solution



### **CVD coupled Raman system**

Customer : Korea Institute of Industrial Technology

- Real-time Raman spectroscopy of materials produced in the CVD chamber
- Objective lens cover and Impeccably sealed probe for protection against exposure to chemical materials



### **Raman / photocurrent system with probe station**

Customer : Samsung Advanced Institute of Technology, GIST, SKKU

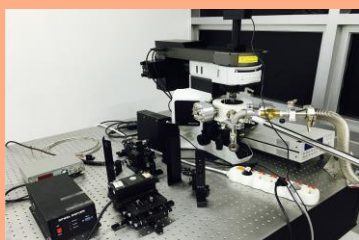
- Featuring supercontinuum laser source
- *XperRAM S Series* customized for study on the electrical and optical properties of wire bonded material such as Si wafer



### **Cryostat coupled Raman system**

Customer : SKKU

- Cryogen free 1.5L cryostat coupled with superconducting magnet system and Raman system conducts tests in 4K temperature environment
- 2D Raman imaging using Piezo actuator



### **Cryostat coupled photocurrent System**

Customer : SKKU

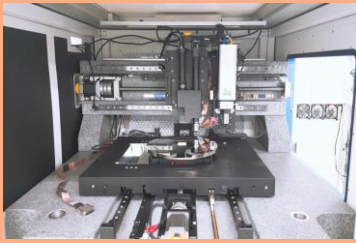
- Photocurrent imaging in the cryostat
- Cryostat integrated on the microscope stage
- No sample movement while mapping process



### **Cell counting Raman System**

Customer : Yonsei University

- Micro Raman system integrated with cell fluidic sorting system
- Raman system detects a cell if each cell spectrum and size falls within a pre-set range, and Raman system also distinguishes cells and particles



### WLI module coupled with AFM system

Customer : Park Systems

- Our WLI module integrated with counterparty's AFM system to enhance surface measurement capabilities



### Indoor/outdoor portable Raman spectroscopy system

Customer : Korean National Research Institute of Cultural Heritage

- For outdoor use : comes in a portable case with 473, 532, 633nm lasers
- For indoor use : mountable on a specially designed microscope station for micro Raman analysis



### Macro Raman system for gas emission measurement

Customer : Chung-Ang University

- Macro Raman system with a sample stage
- Featuring 532nm excitation source
- This system is optimized for battery material manufacturing research



### Raman microscope coupled with a Montana cryostat

Customer : UNIST

- Micro Raman instrument placed on an XY movement stage
- Specially designed for use of *XperRAM S Series* with *Cryostation s50*

## CUSTOMIZABILITY SCOPE

- Integration of our instruments with other functionalities
- Integration of our modular product parts with your own lasers, spectrometers, microscopes, etc
- Design of instruments involving modification of laser beam paths
- Much more possibilities (We live for challenges of making things happen, so just ask us!)

## CUSTOMIZATION PROCESS

You will be in close contact with us during the whole customization process.



Initial  
meeting



Feasibility  
analysis



Agreement  
on spec,  
cost, time



Production



Reports &  
meetings in  
between



QC of  
final  
product



Shipment



Installation  
& trainings



Post-  
installation  
support

## CUSTOMIZABLE PRODUCTS

We specialize in tailor-making instruments for the following technologies :

- Raman spectrometry
- Fluorescence lifetime imaging/measurement
- Interferometric profiling / WLI
- Raman spectroscopy
- Photocurrent imaging/measurement
- Battery cycling



## CUSTOMIZATION GUIDE

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