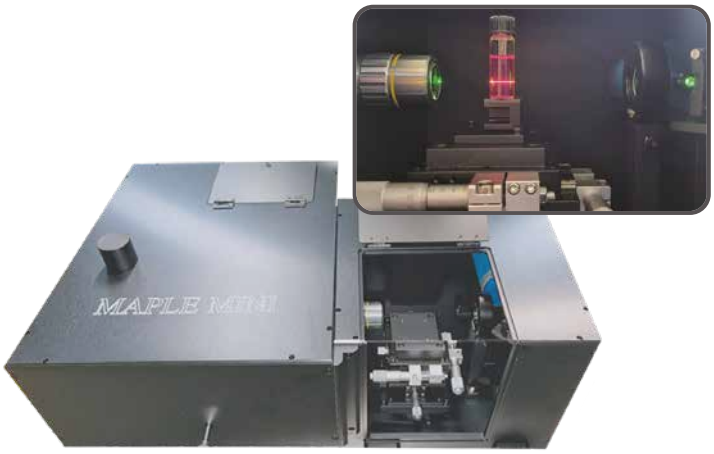
# Maple Mini | Micro Raman / PL




## Key Features

- *Free or Fiber Coupled*
- *Compact & Modular Design*
- *Various Laser Line Combined*

## Application

- Semiconductor Characterization and Testing (III-V Materials)
- *GaN / ZnO LED Wafer Surface Characterization (Surface Containment, Uniformity, Reflectivity, Thickness and Bowing Test)*
- *Solar Cell EL Measurement*
- *Sensor Development for NIR Range*
- *Gemstone PL, Diamond by HPTP*
- *Development of Material of LED with GaN / GaAs*
- *Reflectance & Transmittance Measurement (SiC / Si / Sapphire Substrate)*
- *Photoluminescence Excitation (PLE) to Measure the Energy Levels (Properties of Absorption & Recombination)*

## Specification

### Excitation Source

| | |
|---|---|
| *Wavelength* | *532 / 635 / 785 nm (Select One Laser)* |
| *Beam Quality* | <1.2 M^2 |
| *Output Power* | *100 mW (CW Mode)* |

### Spectrograph

| | |
|---|---|
| *Focal Length* | *320 mm (Two exit port)* |
| *Spectral Resolution* | *0.1 nm* |
| *Spectrometer (Option)* | *Fiber Optics Spectromter* |

### Sample Chamber

| | |
|---|---|
| *Maple Mini* | *Compact Type Micro Sample Chamber* |
| | *Manal Type Stage & Filter Wheel* |

### Detector

| | |
|---|---|
| *Type* | *PMT (R928) / Si / InGaAs* |
| *Spectral Range* | 185 ~ 900 nm / 900 ~ 1800 nm |
| *Type (CCD)* | *TE Cooled CCD (Open Electrode)* |
| *Pixel Format* | 1024 * 256 |

### Software

| | |
|---|---|
| *Solis & Monoworks* | *User-friendly Interface for Simultaneous Detector & Spectrograph Control* |