The FS-2 has been for years the No. 1 choice for Korean researchers who apply Photoluminescence in Materials Science. This is despite of the abundance of inexpensive offerings on the market, especially from Japanese competitors. The reason? Because the FS-2, due to its highly professional design and quality, naturally lends itself to basic requirements for Materials Science application:

- Smart optical design: **concave gratings** and **horizontal beam geometry** eliminate optical aberrations and greatly enhance the throughput and light collection efficiency.

- FS-2 employs the best methodology for absolute PLQY determination with integrating sphere using the De Mello’s method. The integrating sphere is designed for in-beam and out-of-beam measurements which ensure accurate PLQY results. Most PL instruments do not account for secondary absorption and emission which renders their PLQY results inaccurate.
➢ Two sample holders are available for solids:
  ➢ Specialized holder for samples of variable thickness from thin films to substrates of several cm thick and a special quartz powder cell for powders and granular samples

  ➢ Variable angle (0-360°) solid sample holder for solids and also for front-face illumination of liquid samples

➢ Phosphorescence lifetime capability from 20 microseconds (no extra accessory required) – ideal for lanthanide-based materials and phosphors

➢ Powerful, well-designed 3D graphics software for simultaneous excitation and emission spectra (EEM) and contour mapping – an indispensable tool in characterization of luminescent materials, especially doped lanthanides nanoparticles.

➢ Integrated, bench-top, compact design easy to operate, ideal for multi-user environment

➢ Preprogrammed system validation protocols make it an ideal choice for QC of photoluminescent devices