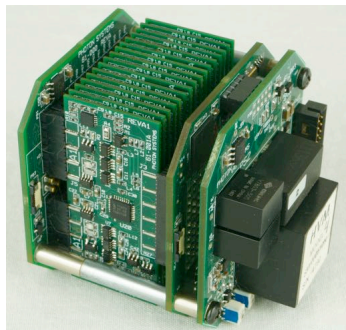


32 Channel Digital Gated Boxcar Integrator and Averager



Direct interface to Photon Systems Deep UV laser

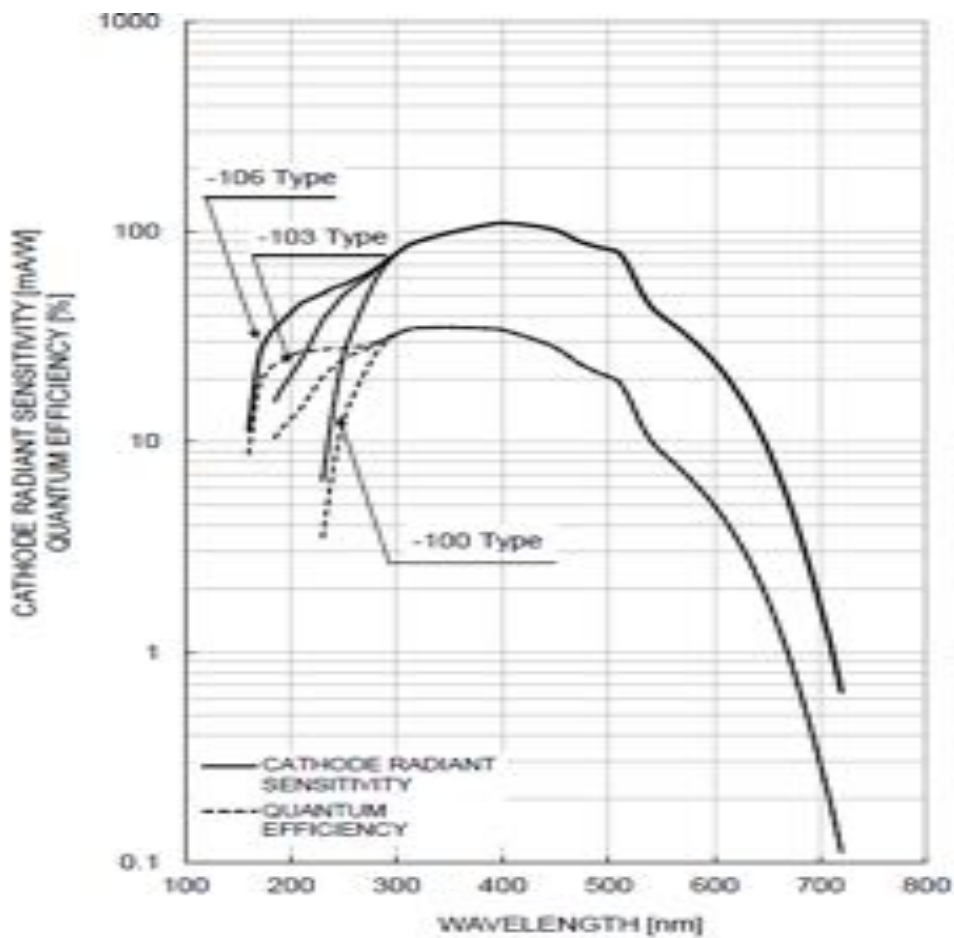
Applications:

- ✓ **Direct laser induced resonance fluorescence and/or Raman analyzer for:**
 - Targeted chemical sensing
 - Explosives Detection
 - Surface contamination profiling
 - Municipal and Industrial waste water contamination
 - Soil contamination profiling
 - Aerosol detection
- ✓ **Laser Induced Native Fluorescence (LINF)**
 - CE
 - HPLC
- ✓ **Direct laser induced Photoluminescence probe for:**
 - Wide Band Gap Semiconductors
- ✓ **Any Other Applications Using Pulsed Sources**

Features:

- PMT Array Controller for Hamamatsu 32 Channel PMT Array Module, H7260
- Up to 1000X better signal to noise than CW detectors
- Dual Serial port, RS488 Full Duplex
- 32Bit, 75Mips Processor with 256K RAM and 256K Flash
- 24 Bit Delta-Sigma Data Converter, 16bit data resolution
- Digital PMT gain control, 4 decades, to 4×10^6 total gain.
- On board temperature sensor
- On board Digital addressable Self Test circuit for integration calibration
- On board system offset voltage controller
- 4 switchable feedback elements, ie. 4 decade integration capacitors or 3 capacitors and 1 resistor for real time data acquisition
- Fully adjustable start/finish integration parameters, 2us- seconds
- LabView or equivalent controllable
- Directly interfaces with PSI 224nm or 248nm deep UV lasers for excitation and detection of resonance fluorescence or Raman scattering in multiple wavebands
- PMT Array—Hamamatsu #H7260 @ www.Hamamatsu.com





Hamamatsu H7260 Performance

