

KeyView™ Detectors

Product Overview



Phoseon engineers compact solid state detectors for analytical instruments and preparative chromatography. Users want instruments that allow accuracy and reproducibility for their experiments without being a hassle. KeyView delivers higher sensitivity and/or dynamic range than deuterium lamps and is 100 times more stable.

KeyView™ detectors are based on Phoseon's patented Semiconductor Light Matrix (SLM)™ technology that improves performance, offers ease-of-use, and increased productivity over traditional light sources like deuterium, tungsten, and xenon lamps. Light-Emitting-Diodes (LEDs) are inherently low-noise, low-drift, cool, and controllable. LEDs turn on in milliseconds to full brightness and last for greater than 10,000 hours.



Analytical Liquid Chromatography

Phoseon's solid state detectors are used in several important analytical applications, from elemental detection to protein analysis and beyond. KeyView is designed for demanding protocols that require high sensitivity and stability. Users want to be able to see trace analytes and get reproducible results over time. These detectors use discrete wavelengths to measure the absorption and help the user identify analytes.

Preparative Liquid Chromatography

For preparative chromatography, the goal of the user is to determine analyte concentrations with high absolute absorption. Using solid state technology, KeyView detectors have the ability to increase light intensity to capture a greater dynamic range of high concentration analytes. With the multi-channel monitoring of only the relevant wavelengths, Phoseon's detectors allow users to consistently quantify and isolate fractions of proteins and biomolecules. The near zero drift with KeyView gives users the confidence of highly reproducible results.

UV Wavelengths and Applications

200 220 240 260 280 300 320 340 360 380 400 420 440 460 480 500 520 540 560 580 600 620 640 660 680 700 720 740 760 780 800

■ Phoseon Available Wavelengths (nm)

UVC	UVB	UVA	VISIBLE LIGHT	INFRARED
UV-C (200-280 nm) <ul style="list-style-type: none"> •Decontamination & disinfection of surfaces •Water disinfection •Sterilization •DNA analysis •Fluorochemistry •Mercury detection •Sulphur detection 	UVB and UVA (280-400 nm) <ul style="list-style-type: none"> •Bacterial identification •Fluorescence •Medical imaging of cells •Medical diagnosis •Drug discovery •DNA sequencing •Detection of food contamination •Nucleic acid visualization •UV curing 	Visible & Infrared (400-800 nm) <ul style="list-style-type: none"> •Chromatography (HPLC) •Flash chromatography •Spectroscopy •Optical detection •UV/Vis •Protein analysis (DNA) •Nucleic acid analysis •Evaporative light scattering detector (ELSD) 	<ul style="list-style-type: none"> •Microplate readers •Microscopy •Transilluminator •Polarimetry •Ellipsometry •Reflectometry •Atomic absorption 	