



## Plug in Replacements for Discontinued Hamamatsu PbS & PbSe

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Discontinued Hamamatsu TEC cooled PbS and PbSe detectors can now be replaced with detectors from trinamiX. With their equal or better performance trinamiX detectors provide the familiar pin configuration with additional robustness and customization possibilities.



These provide a direct drop-in replacement for the discontinued Hamamatsu thermoelectrically cooled PbS detectors (P2532, P2682) and thermoelectrically cooled PbSe detectors (P2038, P2680, P9696).

Like Hamamatsu detectors, all TEC based trinamiX detectors incorporate a thermistor which allows for a precise temperature stabilization of the active element. The single and two stage TECs provide for operation at extremely low temperatures for increased detectivity and sensitivity at larger wavelengths independent of the ambient conditions.

With a performance equal to or better than the established Hamamatsu detectors, these PbS and PbSe detectors are especially well suited for near and mid infrared spectroscopy applications. The patented thin film encapsulation of trinamiX detectors provides additional robustness and customization possibilities beyond what was previously possible.

You can use the model numbers from the following table to find and order the correct replacement for your application.

	Active area [mm x mm]	Cooling	Type No. Hamamatsu	Type No. trinamiX
PbS	4x5	One-stage TE-cooled	P2532-01	PbS050040TO8-1TEC
		Two-stage TE-cooled	P2682-01	PbS050004TO8-2TEC
PbSe	2x2	One-stage TE-cooled	P9696-102	PbS020020TO8-1TEC
			P2038-02	
		Two-stage TE-cooled	P9696-202	PbS020020TO8-2TEC
			P2680-02	
	3x3	One-stage TE-cooled	P9696-103	PbS030030TO8-1TEC
			P2038-03	
Two-stage TE-cooled		P9696-203	PbS030030TO8-2TEC	
		P2680-03		