

**Pinned\_Photodiode\_Adopted\_for\_Back\_Illuminated\_CMOS\_Image\_Sensors  
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**Pinned Photodiode Adopted for Back-Illuminated CMOS Image Sensors**

In 1987, Sony succeeded in developing a 8 mm video camcorder that adopted, for the first time in the world, the interline transfer CCD image sensor, which incorporated "PPD having a high-impurity-concentration P+ channel stop region formed near the light receiving section by ion implantation technology" with VOD function, and became the pioneer of the video camera market. The PPD technology that has been nurtured through such a long history is still used in back-illuminated CMOS image sensors.