Fast Frame Rate 16-Megapixel PureCel®Plus-S Sensor for Smartphones and Action Cameras

OmniVision's OV16860 is a high performance 16-megapixel PureCel Plus-S image sensor designed for high-end smartphones and action cameras. Compared to previous generation 16-megapixel sensors, the OV16860 delivers improved low-light performance and faster readout architecture with a larger 1.3-micron pixel, enabling full resolution recording at 45 frames per second (fps). The sensor also supports advanced features such as high dynamic range (HDR), and phase detection autofocus (PDAF).

OmniVision’s new PureCel Plus-S architecture and larger pixel size offer a number of pixel performance improvements over traditional 1.12-micron 16-megapixel sensors, including a 33 percent improvement in full-well capacity, a 40 percent improvement in low light performance and dramatically reduced pixel crosstalk.

The 1/2.4-inch OV16860 supports high-quality slow motion video capture with full field of view (FOV). The sensor can capture 16-megapixel images and video at 45 fps, ultra-high resolution 4K2K video at 60 fps, and 1080p high definition (HD) video at 120 fps via high speed D-PHY and C-PHY interfaces. Additionally, the OV16860 combines advance process and design optimization to enable nominal operating digital voltage (DVDD) spec of 1.2V.

Find out more at www.ovt.com.