QUALCOMM SPECTRA ISP

Our most advanced camera to date, designed to improve image quality and enable advanced imaging experiences.

SUPERIOR PHOTOGRAPHY

Qualcomm Spectra™ ISP is at the leading edge of mobile image quality.

• New 14-bit dual-ISP, supports up to 25MP@30fps with zero shutter lag, greater precision for improved image quality and more natural skin tones.
• Designed to support DSLR-quality photography through superior noise reduction, low light algorithms, and computational camera innovations.
• Flexible hybrid Phase Detection Auto Focus (PDAF), laser and contrast AF framework for fast and reliable auto focus.

IMPROVED CAMCORDER

Options and features for innovation.

• 25% better power efficiency for longer battery life when recording HD and 4K videos.
• Snapdragon LLV (low light video) for adaptively brightening areas of video/images that would otherwise appear too dark.
• Touch to Track feature that locks onto desired objects and then adaptively zooms and tracks them during video recording.

NEW EXPERIENCES

Next-generation imaging experiences.

• Support for up to 3 simultaneous cameras (one user-facing, and two rear-facing).
• Depth extraction and 3D Reconstruction and via structured light, dual camera sensor support, time of flight.
• Raw Bayer pre-processing and HDR image post processing using Qualcomm® Hexagon™ 680 DSP with Hexagon Vector eXtensions (HVX).
• Improved ISP processing allows for slimmer Z-Height optics required by thinner smartphones.

THE QUALCOMM® SNAPDRAGON® 820 PROCESSOR

IMMERSIVE AND INTELLIGENT.

Introducing the new all-in-one Snapdragon 820—the most powerful mobile processor Qualcomm Technologies has ever created. And with Qualcomm Spectra ISP, you get our most advanced photography with support for DSLR-quality images. Purpose-built to redefine efficiency, innovation and the user experience, the Snapdragon 820 offers a whole new level of mobile intelligence.