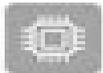


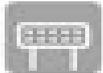
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1/3.06" IMX214



13MP



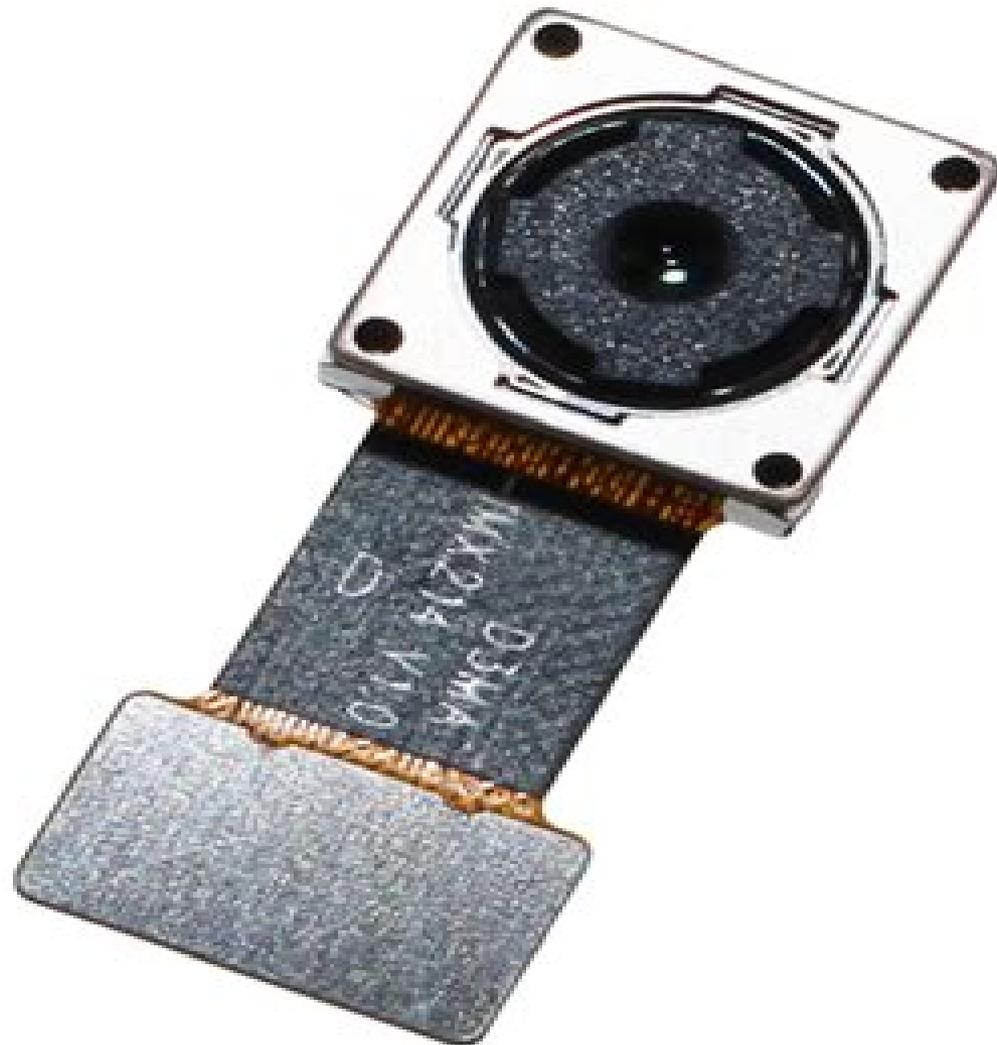
MIPI Interface



FOV D=74.4°



Auto Focus



# Sony Imx214 Image Sensor Techinsights

**Junichi Nakamura**



## **Sony Imx214 Image Sensor Techinsights:**

**Essential Principles of Image Sensors** Takao Kuroda,2017-12-19 Providing a succinct introduction to the systemization noise sources and signal processes of image sensor technology Essential Principles of Image Sensors discusses image information and its four factors space light intensity wavelength and time Featuring clarifying and insightful illustrations this must have text Explains how image sensors convert optical image information into image signals Treats space wavelength and time as digitized built in coordinate points in image sensors and systems Details the operational principles pixel technology and evolution of CCD MOS and CMOS sensors with updated technology Describes sampling theory presenting unique figures demonstrating the importance of phase Explores causes for the decline of image information quality In a straightforward manner suitable for beginners and experts alike Essential Principles of Image Sensors covers key topics related to digital imaging including semiconductor physics component elements necessary for image sensors silicon as a sensitive material noises in sensors and more

**Image Sensors and Signal Processing for Digital Still Cameras** Junichi Nakamura,2017-12-19 Shrinking pixel sizes along with improvements in image sensors optics and electronics have elevated DSCs to levels of performance that match and have the potential to surpass that of silver halide film cameras Image Sensors and Signal Processing for Digital Still Cameras captures the current state of DSC image acquisition and signal processing technology and takes an all inclusive look at the field from the history of DSCs to future possibilities The first chapter outlines the evolution of DSCs their basic structure and their major application classes The next few chapters discuss high quality optics that meet the requirements of better image sensors the basic functions and performance parameters of image sensors and detailed discussions of both CCD and CMOS image sensors The book then discusses how color theory affects the uses of DSCs presents basic image processing and camera control algorithms and examples of advanced image processing algorithms explores the architecture and required performance of signal processing engines and explains how to evaluate image quality for each component described The book closes with a look at future technologies and the challenges that must be overcome to realize them With contributions from many active DSC experts Image Sensors and Image Processing for Digital Still Cameras offers unparalleled real world coverage and opens wide the door for future innovation

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