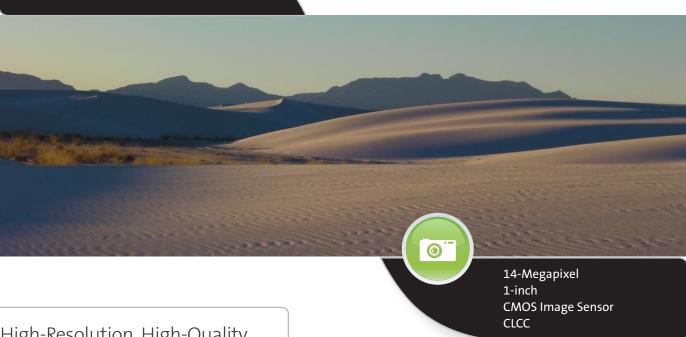
AR1411HS



High-Resolution, High-Quality Image Capture and HD Video



14.2MP with 2.86 μm pixel

High-Resolution still Images with stunning color fidelity



DR-Pix[™] Technology

Adjustable pixel response optimized for best noise performance in all scene conditions



60fps (1/80fps scan rate)

Burst still image capture with minimal rolling shutter artifacts, seamless capture of stills from video



4K Digital Cinema supported

4K (4096H x 2160V or 8.8Mp) at 60fps is supported , which is standardized by Digital Cinema Initiatives (DCI)



High-Speed modes: 1080p120, video up to 1200fps

High-Quality, slow motion video

Applications

- DSC
- DSLR
- Mirrorless
- Surveillance



How to Buy

Production and sample quantities of Aptina products may be ordered through qualified distributors. See our Web site for details.

You may also request access to NDA data sheets and other technical documentation by visiting our Web site.



AR1411HS

Features

- 2.86µm pixel size with Aptina DR-Pix ™ technology
- 1/80 sec frame readout time, 1-inch optical size, 14MP imager
- 60 fps continuous readout in 14.2Mp full resolution mode
- 4K digital Cinema (4096H x 2016V) is supported
- Multiple operation modes including; 4K60fps, 1080p120fps,
- High speed differential serial video output (HiSPi™)
- External master clock frequency 29.16 MHz

Specifications

Imaging Array

• Resolution: 4620 (H) x 3084 (V)

· Aspect Ratio: 3:2

• Optical Format: 1-inch (15.8mm diagonal)

Active Array: 4620 (H) x 3084 (V)
Imaging Area: 13.2mm x 8.8mm

Sensitivity

Pixel Size: 2.86µm x 2.86µm
Dynamic Range: 79.0dB
Responsivity: 20.5 ke/lx*s

Speed/Output

• Frame Rate: 60fps (1/80sec scan rate)

Chroma: RGB BayerShutter type: ERS

• Data Rate: 700Mbps x 24 = 16.8Gbps

• Master Clock: 19.16 MHz

• Data Format: HiSPi (SLVS: 24 Lanes)

Environmental

Supply Voltage: 3.0, 1.8, 2.8, 0.4 V

Power consumption: Max 1,100mW at Full Resolution
 Continuous

• Operating Temperature: -30°C to +70°C

· ROHS Compliance: Passed

Package

• Package: 124-pin CLCC

• Package Dimension: 23.6 x 22.0 x 2.6 mm

Key Readout Modes

