



Product Comparison and Benchmark at Security application

Dec, 2016

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|----------------------------|---|--|---|---|---|--|--|
| Sensor Supplier | SOI | SOI | SOI | SOI | SOI | SOI | SOI |
| Sensor P/N | JX-V01 | JX-H22 | JX-H42 | JX-H62 | JX-H61 | JX-F02 | JX-F22 |
| Resolution (pixel) | 656x492 | 1296x812 | 1296x732 | 1296x732 | 1296x732 | 1936x1092 | 1936x1092 |
| Pixel Size (um) | 5.6 | 3 | 3 | 3 | 3.75 | 3 | 3 |
| Optical Format (inch) | 1/4. | 1/4. | 1/4. | 1/4. | 1/3. | 1/2.7 | 1/2.7 |
| CRA | 0 | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 |
| Pixel Technology (FSI/BSI) | FSI | FSI | FSI | FSI | FSI | FSI | FSI |
| ISP (Raw/SOC sensor) | 10bit RAW | 10bit RAW | 10bit RAW | 10bit RAW | 10bit RAW | 10bit RAW | 10bit RAW |
| Sensitivity (mV/lux.soc) | 13000 | 3300 | 3300 | 4300 | 5800 | 3900 | 3900 |
| Max SNR | 36db | 37db | 37db | 37db | 37.5db | 37.5db | 38db |
| Dynamic range | 77db | 64db | 64db | 72db | 64.5db | 70db | 73db |
| Power consumption | Active:53mA Standby:10uA | Active:30mA Standby:<30uA | Active:65mA Standby:<10uA | Active:42mA Standby:<30uA | Active:76mA Standby:<10uA | Active:50mA@FHD 30fps Standby:300uA | Active:88mA@FHD 30fps Standby:30uA |
| Frame Rate (fps) | 60 @ full resolution | 30 @ full resolution | 60 @ full resolution | 60 @ full resolution | 60 @ full resolution | 60 @ full resolution | 60 @ full resolution |
| Output Format | VGA | 720p | 720p | 720p | 720p | 1080P | 1080P |
| Interface (MIPI, Parallel) | Parallel, MIPI | Parallel, MIPI | Parallel, MIPI | Parallel, MIPI | Parallel, MIPI | Parallel@30fps MIPI@60fps | Parallel@30fps MIPI@60fps |
| HDR | No | No | No | No | No | Yes | Yes |
| Sample schedule/Date | Available | Available | Available | Available | Available | MP | MP |
| MP date | 2014/ July | 2013 April | 2015/Mar | 2016/Aug | 2015/May | 2015/Oct | 2016/Aug |
| Other features/capability: | 1. high performance VGA product. 2. Baby cam/CCTV/Door phone | 1. Cost competitive. 2. CSP package. 3. Stable image performance 4. Compatible Lens with OV9712/9715 | 1. high performance 1/4" HD product. 2. 60fps for 1280H CCTV. 3. IPCAM/ CCTV/ car black box | 1. high performance 1/4" HD product. 2. 60fps for 1280H CCTV. 3. IPCAM/ CCTV/ car black box | 1. high performance 1/3" HD product. 2. 60fps for 1280H CCTV. 3. IPCAM/ CCTV/ car black box | 1. high performance 1/3" FHD product with HDR mode. 2. 60fps for action cam/ CAR DVR 3. IPCAM/ CCTV/ car black box/action cam | 1. high performance 1/3" FHD product with HDR mode. 2. 60fps for action cam/ CAR DVR 3. IPCAM/ CCTV/ car black box/action cam |