



MOTICAM Series

# MOTICAM 1080





## MOTICAM Series - Tablet Solutions

### MOTICAM 1080

|                                              |                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Sensor type</b>                           | CMOS                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Sensor size</b>                           | 1/2.8"                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Imaging area</b>                          | 5.346x3.003mm                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Capture resolution</b>                    | 8MP (3840x2160 pixels)                                                                                                                                                                                                                                                                                                                                                                |
| <b>Image capture resolution (On SD-card)</b> | 8MP (3840x2160 pixels)                                                                                                                                                                                                                                                                                                                                                                |
| <b>Video capture resolution (On SD-card)</b> | 1920x1080p (Full HD)                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Live display mode through USB</b>         | 1920x1080 pixels (Full HD)                                                                                                                                                                                                                                                                                                                                                            |
| <b>Live display mode through HDMI</b>        | 1920x1080 (Full HD)                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Pixel size</b>                            | 2.8x2.8µm                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Scan mode</b>                             | Progressive                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Data transfer</b>                         | HDMI (1080p), USB 2.0                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Max. frames per second (fps)</b>          | USB: 1920x1080 (Full HD) @ 30 fps, HDMI: 1920x1080 (Full HD) @ 60 fps                                                                                                                                                                                                                                                                                                                 |
| <b>Exposure time</b>                         | "0.06ms ~ 40ms with Auto Exposure mode,<br>(0.06ms ~ 999ms with Manual Exposure mode)"                                                                                                                                                                                                                                                                                                |
| <b>Operating temperature</b>                 | From -10 to +60 Degrees Celsius non condensing                                                                                                                                                                                                                                                                                                                                        |
| <b>Max. signal to noise ratio</b>            | 40dB                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Dynamic range</b>                         | 71dB                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Sensitivity</b>                           | 0.51V (Typical at 1/30 sec)                                                                                                                                                                                                                                                                                                                                                           |
| <b>Slot</b>                                  | SD Card (max 32Gb)                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Buttons</b>                               | On/Off                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Support device</b>                        | TWAIN and Direct Show Driver                                                                                                                                                                                                                                                                                                                                                          |
| <b>Supported OS</b>                          | Windows XP SP3/Vista/7/8/10 and MAC OSX, Linux                                                                                                                                                                                                                                                                                                                                        |
| <b>Minimum computer requirements</b>         | 2GHz dualcore - RAM memory 2GB - Video memory min. 512 MB                                                                                                                                                                                                                                                                                                                             |
| <b>Lens mount</b>                            | C-Mount                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Focusable lens</b>                        | 12mm                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Software</b>                              | On-board software                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Functions</b>                             | Still image capture, live image record, zoom in & out, magnifier, ROI, mirror, rotation, split, freeze, cross line, gallery, Auto/Manual exposure, gain, target brightness setting, light frequency, Auto/Manual white balance Mode, saturation, contrast, gamma, sharpness, denoise, user settings, system's time setting, language (English, Chinese and Japanese), format SD card. |
| <b>Power supply</b>                          | 12V (External Power supply)                                                                                                                                                                                                                                                                                                                                                           |
| <b>Package includes</b>                      | CS ring adaptor, focusable lens, 30mm and 38mm eyepiece adapters, USB 2.0 cable, HDMI cable, Motic 4-dot calibration slide, macro tube, Motic Images Plus 3.0 for PC/OSX/ Linux, universal power supply                                                                                                                                                                               |

\*Frames per second under optimal lighting conditions and in compliance with computer technical requirements.