Moticam 1080 HDMI &USB

Sensor Type	CMOS
Sensor Size	1/2.8"
Imaging Area	6.4 mm (Diagonal)
Capture resolution (on SD-card)	Still Image: 8.0MP (3840 x 2160) / Video: Full HD 1920 x 1080
Live Display Mode (through USB)	1920 x 1080 (Full HD) @ 30 fps*
Live Display Mode (through HDMI)	1920 x 1080 (Full HD) @ 60 fps*
Pixel Size	2.8µm x 2.8µm
Scan Mode	Progressive
Data Transfer	HDMI (1080p) and USB2.0
Exposure Time	0.06ms ~ 40ms with Auto Exposure mode
	0.06ms ~ 999ms with Manual Exposure mode
Operating Temperature	From -10 to +60 Degrees Celsius non condensing
Max. Signal to Noise Ratio	40dB
Dynamic Range	71dB
Sensitivity	0.51V (Typical at 1/30 sec)
Slot	SD Card (max 32Gb)
Buttons	On / Off
Support Device	Twain and Direct Show Driver
Supported OS	Microsoft Windows XP SP3/Vista/7/8/10 and MAC OSX & Linux
Minimum Computer Requirements	2GHz dualcore – RAM memory 2GB – Video memory min. 512 MB
Lens Mount	C-Mount
Focusable Lens	12mm

On-board software (Camera connected through HDMI to a HD screen and through USB to a mouse)	Standard tools	Still image capture, Live image record, Zoom in & out, Magnifier, ROI, Mirror, Rotation, Split, Freeze, Cross line, Gallery.
	Image adjustments (AE/AWB)	Auto/Manual Exposure mode, Gain, Target Brightness setting, Light Frequency, Auto/Manual White Balance mode.
	Advanced settings	Saturation, Contrast, Gamma, Sharpness, Denoise, User settings, System's Time setting, Language (English, Chinese and Japanese), Format SD card.

Power supply	12V (External Power supply)
Package Includes	CS Ring Adaptor, HDMI cable, Focusable Lens, 30mm and 38mm Eyepiece Adapters, USB 2.0 Cable, Calibration Slide, Macro Tube, Motic Images Plus 3.0 for PC/OSX/Linux

*frames per second under optimal illumination conditions