# USB-3 cameras with Scientific Grade sCMOS sensor

## HIGHLIGHTS

- Digital Color Camera
- Color/ Monochrome mode application to acquire bright field, dark Field, phase contrast & fluorescence images with CMOS Chip.
- Highest speed camera
- SONY Exmor R sCMOS color USB3.0 camera
- Low signal/noise ratio
- USB 3.0 interface
- Back-illuminated sCMOS sensor
- Perfect color-reproduction capability


## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Sensor** | SONY Exmor R sCMOS |
| **Scan mode** | Progressive, rolling shutter |
| **Filter** | RGB |
| **Mount** | C-mount |
| **Exposure** | Automatic or manual |
| **White Balance** | Automatic or manual |
| **Data interface** | USB 3.0 high speed |
| **Operation** | 0~60°C, 45-85 % humidity |
| **Storage temperature** | -20~70°C |
| **Power supply** | 5V over PC USB Port |
| **Housing** | Integrated CNC aluminum alloy compact housing |

**Supplied with** 0.5x objective with C-mount (for INV.3000s and INV.6000s) and 1x objective with C-mount (for INV.20000sand INV.32000s), USB 3 cable, 30 and 30.5mm adapters for stereo microscopes, 76 x 24 mm calibration slide (1mm/100), CD ROM with Image Focus Alpha software, carton box

### Software

Supplied with Image Focus Alpha, image and video capturing and measuring software For Win 7/ 8/ 10 (32 and 64-bit configurations) PC requirements: Compatible with Intel Core 2, 2.8 GHZ or higher, 2GB, USB-3 high speed, 17-inch display), Functions: automated image accusation and Time Lapse Imaging, Image tiling & stitching for Large Image.

- Software module enabled with tools (inbuilt) dedicated to automatically remove blur from fluorescence microscope images.
- Software module is capable to recognize patterns present in two different imaging channels for improving and enhancing efficiency in data acquisition and simplifying previously complex or difficult analysis routines.
- It has report generator facility, supported with data base, vector layer and multi-dimensional file format.

| MODELS | Number of pixels (MP) | Sensor | Sensor size (inches) | Pixels size (pm) | Resolutions | Exposure time | Max. frames (p/sec) | Grayscale conversion | Dynamic range (db) | S/N Ratio (db) | Color rendering | Sensitivity V/lux-sec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **INV.3000s** | 3.1 | sCMOS | 1/2.8" | 2.5 x 2.5 | 2048 x 1536<br>1920 x 1080 | 0.244 ~ 15000 ms | 50<br>58 | 16 bits | .. | .. | 36 bits | 0.15 |
| **INV.6000s** | 6.3 | sCMOS | 1/1.8" | 2.5 x 2.5 | 3072 x 2048<br>1536x1024 | 0.244 ~ 15000 ms | 30<br>38 | 16 bits | 66.8 | 41.51 | 36 bits | 0.15 |
| **INV.20000s** | 25 | sCMOS | 1" | 5.4 x 5.4 | 5440 x 3648<br>2736x 1824<br>1920 x 1080 | 0.264 ~ 15000 ms | 15<br>50<br>60 | 16 bits | 66.3 | 41.74 | 36 bits | 0.21 |
| **INV.32000s** | 32 | sCMOS | 1.15" | 2.3 x 2.3 | 5600 x 5600 | 0.1 ~ 15000 ms | 8.1 | 16 bits | 88 | 50 | 36 bits | 0.43 |

info@innovabiolifetechnology.com
+91-8287261528
1st Floor, 13/10, Ram Nagar, Karnal, Haryana, 132001
https://innovabiolifetechnology.com