

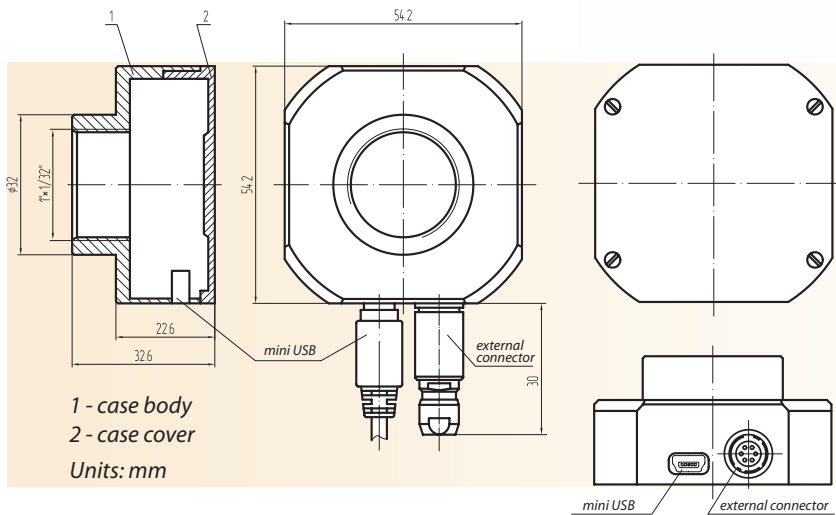
CommandShot Megapixel USB 2.0 CMOS Cameras

CommandShot cameras - megapixel CMOS cameras with USB 2.0 interface suitable for machine vision and microscopy applications. The cameras are designed for capturing, streaming and storing high quality digital images. CommandShot cameras benefit:

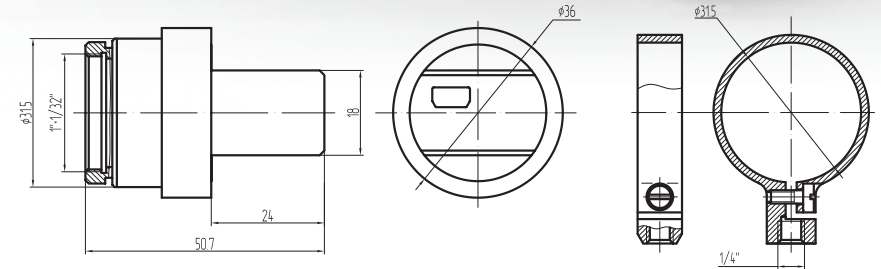
- High speed
- Communication interface: USB2.0
- External trigger
- No external power supply required
- Compact size
- Ease of use

CommandShot cameras are presented in the following models: SMX-150M, SMX-155M, SMX-160M, SMX-160C, SMX-M71M, SMX-M72, SMX-M73, SMX-M81M, SMX-M82C, SMX-M83C.

CommandShot camera kit contains: camera, tripod adapter, USB cable, trigger connector (optional), Camera Application Software and API Library.



Drawing of the camera case and tripod adapter: SMX-15xx, SMX-160x, SMX-M7x models



Drawing of the camera case and tripod adapter: SMX-M8xx models

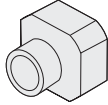
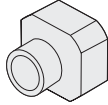
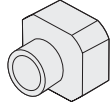
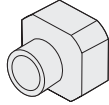
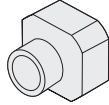
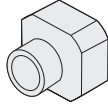
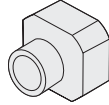



Application Software and SDK

The CommandShot cameras go with application software program and Software Developers Kit (SDK).

CommandShot camera application program provides control of various set-up commands demonstrating cameras performance. SDK contains drivers, Application Programming Interface, source code examples and documentation. CommandShot SDK provides full control of all camera functions and enables easy integration of the camera into the customers' own applications.

System Requirements: Windows XP (SP1) or higher, Linux (upcoming), QNX (SMX-155M only). Supported API languages: C/C++, Visual Basic, Delphi. ActiveX Component (SMX-150M only). Drivers: WDM compatible, Direct Show compatible (not available with SMX-160, SMX-155M and SMX-M8xx), Twain included (not available with SMX-160, SMX-155M and SMX-M8xx).

Comparison Chart

| | SMX-150M | SMX-155M | SMX-M71M | SMX-M72 | SMX-M73 | SMX-160M | SMX-160C | SMX-M81M | SMX-M82C | SMX0M83C |
|-------------------------------|---|---|---|--|---|---|---|---|---|---|
| |  |  |  |  |  |  |  |  |  |  |
| Sensor type: | 1.3 Mpixel CMOS | 1.3 Mpixel CMOS | 1.3 Mpixel CMOS | 2 Mpixel CMOS | 3 Mpixel CMOS | 6.6 Mpixel CMOS | 6.6 Mpixel CMOS | 1.3 Mpixel CMOS | 2 Mpixel CMOS | 3 Mpixel CMOS |
| Image array size: | 2/3 " | 2/3 " | 1/2 " | 1/2 " | 1/2 " | 1 " | 1 " | 1/2 " | 1/2 " | 1/2 " |
| Active pixels: | 1280 X 1024 | 1280 X 1024 | 1280 X 1024 | 1600 X 1200 | 2048 X 1536 | 2208 X 3000 | 2208 X 3000 | 1280 X 1024 | 1600 X 1200 | 2048 X 1536 |
| Pixel size, µm: | 6.7 X 6.7 | 6.7 X 6.7 | 5.2 X 5.2 | 4.2 X 4.2 | 3.2 X 3.2 | 3.5 X 3.5 | 3.5 X 3.5 | 5.2 X 5.2 | 4.2 X 4.2 | 3.2 X 3.2 |
| Max. fps*: | 27.5 (40MHz) | 27.5 (40MHz) | 30 (48MHz) | 20 (48MHz) | 12 (48MHz) | 6 (48MHz) | 6 (48MHz) | 15 (24MHz) | 10 (24MHz) | 6 (24MHz) |
| Shutter type: | Global & Rolling | Global & Rolling | Rolling | Rolling | Rolling, Global Reset | Rolling | Rolling | Rolling | Rolling | Rolling (Optional Global Reset) |
| Color/Mono: | Mono | Mono | Mono | Color | Color | Mono | Color | Mono | Color | Color |
| Bit depth: | 8/10 | 8/10 | 8/10 | 8/10 | 8/10 | 8/10 | 8/10 | 8/10 | 8/10 | 8/10 |
| Trigger: | + | + | + | + | + | - | - | Optional | Optional | Optional |
| Lens mount: | C | C | C | C | C | C | C | C/CS | C/CS | C/CS |
| Dynamic range, dB: | 64 (optical) | 64 (optical) | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 |
| Maximum Power Consumption, W: | 1.8 | 1.6 | 2.28 | 2.28 | 2.28 | 2.28 | 2.28 | 0.8 | 0.8 | 0.8 |
| Weight, g: | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 55 | 55 | 55 |
| Dimensions, mm: | w=54.2 l=54.2 h=32.6 | w=54.2 l=54.2 h=32.6 | w=54.2 l=54.2 h=32.6 | w=54.2 l=54.2 h=32.6 | w=54.2 l=54.2 h=32.6 | w=54.2 l=54.2 h=32.6 | w=54.2 l=54.2 h=32.6 | l=46 d=31.5 | l=46 d=31.5 | l=46 d=31.5 |
| Win2000, WinXP: | + | + | + | + | + | + | + | + | + | + |
| QNX: | - | + | - | - | - | - | - | - | - | - |
| ActiveX Component: | + | - | - | - | - | - | - | - | - | - |
| WDM Compatible: | + | - | + | + | + | - | - | - | - | - |
| DirectShow compatible: | + | - | + | + | + | - | - | - | - | - |
| Twain included: | + | - | + | + | + | - | - | - | - | - |

* at the highest resolution