

CMEX-2f

USB-2.0 camera with fast CMOS sensor

DC.2000f

HIGHLIGHTS

- Entry level camera for amateur, education and laboratories
- 2.0 Mpix CMOS color USB-2.0 camera
- 1/2.9" sensor, 1920 x 1080 pixels
- Color depth 24 bits
- Low signal/noise ratio
- USB 2.0 interface



TECHNICAL SPECIFICATIONS

| | |
|------------------------------|---|
| Sensor | CMOS 1/2.9 inch |
| Pixels | 1920 x 1080 pixels, 2.0 Mpix |
| Scan mode | Progressive, rolling shutter |
| Pixel size | 2.8 µm x 2.8 µm |
| Max f/s | Up to 30 frames per second (1920x 1080 pixels) |
| Filter | RGB |
| Mount | C-mount |
| Grayscale conversion | 8 bits |
| Color depth | 24 bits |
| Exposure | Automatic or manual, from 1 ms to 2s |
| White balance | Automatic/manual |
| Dynamic range | 72 db |
| Sensitivity V/lux-sec | (at 550 nm) 0.51 |
| Data interface | USB 2.0 at 480 Mb/s |
| Operation humidity | 10-85 % humidity |
| Operating temperature | 0 to 60°C |
| Supplied with | 0.45x objective with C-mount, USB 2.0 cable, 30 and 30.5 mm adapters for stereo microscopes, 76 x 24 mm calibration slide, CD ROM with ImageFocus Plus software, carton box |
| Software | Windows 7 and higher (32 and 64 bit configurations). A Mac OS software version is also supplied |
| Product number | DC.2000f |



| MODELS | Sensor and size (inches) | Number of pixels (MP) | Pixels size (µm) | Resolutions | Max. frames (p/sec) | Grayscale conversion | Color depth | Dynamic (db) | Sensitivity V/lux-sec (at 550 nm) | Product number |
|-----------|--------------------------|-----------------------|------------------|----------------------------|---------------------|----------------------|-------------|--------------|-----------------------------------|----------------|
| CMEX- 2f | CMOS 1/2.9" | 2.0 | 2.8 x 2.8 | 1920 x 1080 | 30 | 8 bits | 24 bits | 72 | 0.51 | DC.2000f |
| CMEX- 5f | CMOS 1/2.8" | 5.0 | 2.0 x 2.0 | 2560 x 1920 1600 x 1200 | 30 50 | 8 bits | 24 bits | 72 | 2.0 | DC.5000f |
| CMEX- 12f | CMOS 1/2.3" | 12.0 | 1.33 x 1.33 | 4000 x 3000 2592 x 1944 | 15 30 | 8 bits | 24 bits | 60 | 1.5 | DC.12000f |

The CMEX cameras are supplied in a carton box with USB-2.0 cable, 30.0 and 30.5 mm to 23.2 mm conversion adapters for use with stereo microscopes, calibration slide and a 0.45x C-mount objective

CMEX-5f

USB-2.0 camera with fast CMOS sensor

DC.5000f

HIGHLIGHTS

- Entry level camera for amateur, education and laboratories
- 5.0 Mpix CMOS color USB-2.0 camera
- 1/2.8" sensor, 2560 x 1920 pixels
- Color depth 24 bits
- Low signal/noise ratio
- USB 2.0 interface



TECHNICAL SPECIFICATIONS

| | |
|------------------------------|---|
| Sensor | CMOS 1/2.8 inch |
| Pixels | 2560 x 1920 pixels, 5.0 Mpix |
| Scan mode | Progressive, rolling shutter |
| Pixel size | 2.0 μm x 2.0 μm |
| Max fps | Up to 30 frames per second (2560 x 1920 pixels) Up to 50 frames per second (1600 x 1200 pixels) |
| Filter | RGB |
| Mount | C-mount |
| Grayscale conversion | 8 bits |
| Color depth | 24 bits |
| Exposure | Automatic or manual, from 1 ms to 2s |
| White balance | Automatic/manual |
| Dynamic range | 72 db |
| Sensitivity V/lux-sec | (at 550 nm) 2.0 |
| Data interface | USB 2.0 at 480 Mb/s |
| Operation humidity | 10-85 % humidity |
| Operating temperature | 0 to 60°C |
| Supplied with | 0.45x objective with C-mount, USB 2.0 cable, 30 and 30.5 mm adapters for stereo microscopes, 76 x 24 mm calibration slide, CD ROM with ImageFocus Plus software, carton box |
| Software | Windows 7 and higher (32 and 64 bit configurations). A Mac OS software version is also supplied |
| Product number | DC.5000f |



| MODELS | Sensor and size (inches) | Number of pixels (MP) | Pixels size (μm) | Resolutions | Max. frames (p/sec) | Grayscale conversion | Color depth | Dynamic (db) | Sensitivity V/lux-sec (at 550 nm) | Product number |
|-----------|--------------------------|-----------------------|------------------|----------------------------|---------------------|----------------------|-------------|--------------|-----------------------------------|----------------|
| CMEX- 2f | CMOS 1/2.9" | 2.0 | 2.8 x 2.8 | 1920 x 1080 | 30 | 8 bits | 24 bits | 72 | 0.51 | DC.2000f |
| CMEX- 5f | CMOS 1/2.8" | 5.0 | 2.0 x 2.0 | 2560 x 1920 1600 x 1200 | 30 50 | 8 bits | 24 bits | 72 | 2.0 | DC.5000f |
| CMEX- 12f | CMOS 1/2.3" | 12.0 | 1.33 x 1.33 | 4000 x 3000 2592 x 1944 | 15 30 | 8 bits | 24 bits | 60 | 1.5 | DC.12000f |

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CMEX-12f

USB-2.0 camera with fast CMOS sensor

DC.12000f

HIGHLIGHTS

- Entry level camera for amateur, education and laboratories
- 12.0 Mpix CMOS color-USB 2.0 camera
- 1/2.3" sensor, 4000 x 3000 pixels
- Color depth 24 bits
- Low signal/noise ratio
- USB 2.0 interface



TECHNICAL SPECIFICATIONS

| | |
|------------------------------|---|
| Sensor | CMOS 1/2.3 inch |
| Pixels | 4000 x 3000 pixels, 12.0 Mpix |
| Scan mode | Progressive, rolling shutter |
| Pixel size | 1.33 µm x 1.33 µm |
| Max fps | Up to 15 frames per second (4000 x 3000 pixels) Up to 30 frames per second (2592 x 1944 pixels) |
| Filter | RGB |
| Mount | C-mount |
| Grayscale conversion | 8 bits |
| Color depth | 24 bits |
| Exposure | Automatic or manual, from 1 ms to 2s |
| White balance | Automatic/manual |
| Dynamic range | 60 db |
| Sensitivity V/lux-sec | (at 550 nm) 1.5 |
| Data interface | USB 2.0 at 480 Mb/s |
| Operation humidity | 10-85 % humidity |
| Operating temperature | 0 to 60°C |
| Supplied with | 0.45x objective with C-mount, USB 2.0 cable, 30 and 30.5 mm adapters for stereo microscopes, 76 x 24 mm calibration slide, CD ROM with ImageFocus Plus software, carton box |
| Software | Windows 7 and higher (32 and 64 bit configurations). A Mac OS software version is also supplied |
| Product number | DC.12000f |



| MODELS | Sensor size (inches) | Number of pixels (MP) | Pixels size (µm) | Resolutions | Max. frames (p/sec) | Grayscale conversion | Color depth | Dynamic (db) | Sensitivity V/lux-sec (at 550 nm) | Product number |
|-----------|----------------------|-----------------------|------------------|----------------------------|---------------------|----------------------|-------------|--------------|-----------------------------------|----------------|
| CMEX- 2f | CMOS 1/2.9" | 2.0 | 2.8 x 2.8 | 1920 x 1080 | 30 | 8 bits | 24 bits | 72 | 0.51 | DC.2000f |
| CMEX- 5f | CMOS 1/2.8" | 5.0 | 2.0 x 2.0 | 2560 x 1920 1600 x 1200 | 30 50 | 8 bits | 24 bits | 72 | 2.0 | DC.5000f |
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