

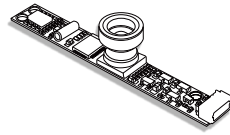
CATALOGUE 2020

# Camera modules

The Delock camera module offers in compact construction low power consumption as well as high resolution. It is ideal for installation in industry components like IPCs, embedded systems, sensors, notebooks, smartphones, tablets or instrument manufacture



# Camera modules



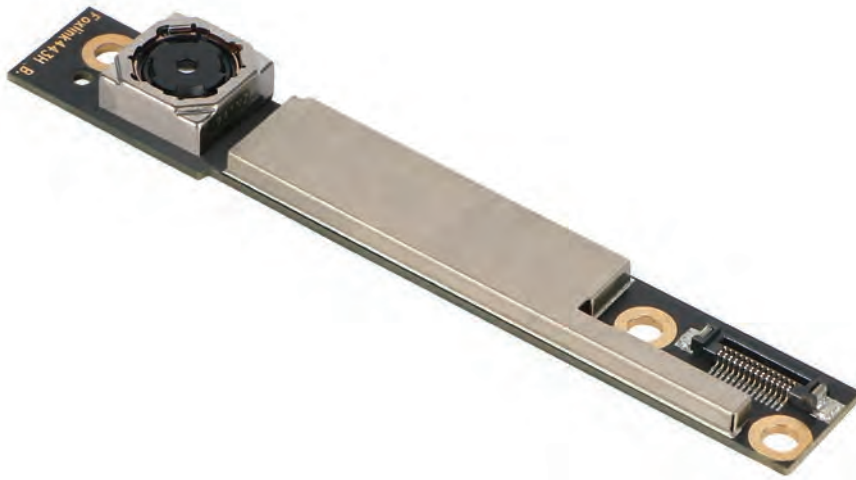
- |    |  |    |  |
|----|--|----|--|
| 02 |  <b>21396</b><br>USB3.0 Camera Module   | 03 |  <b>95976</b><br>USB 2.0 Camera Module<br>3.14 mega pixel 48° V5 fix focus    |
| 04 |  <b>95977</b><br>USB 2.0 Camera Module<br>3.14 mega pixel 55° V5 fix focus      | 05 |  <b>95978</b><br>USB 2.0 Camera Module<br>3.14 mega pixel 80° V5 fix focus    |
| 06 |  <b>95979</b><br>USB 2.0 IR Camera Module<br>3.14 mega pixel 80° V5 fix focus   | 07 |  <b>95980</b><br>USB 2.0 IR Camera Module<br>3.14 mega pixel 48° V5 fix focus |
| 08 |  <b>95981</b><br>USB 2.0 IR Camera Module<br>3.14 mega pixel 55° V5 fix focus   | 09 |  <b>95999</b><br>USB 2.0 Camera Module<br>3.14 mega pixel 62° auto focus      |
| 10 |  <b>96000</b><br>USB 2.0 Camera Module<br>5.04 mega pixel 62° auto focus        | 11 |  <b>96366</b><br>USB 2.0 Camera Module<br>1.92 mega pixel 45° fix focus       |
| 12 |  <b>96367</b><br>USB 2.0 IR Camera Module<br>5.04 mega pixel 80° V5 fix focus   | 13 |  <b>96368</b><br>USB 2.0 Camera Module<br>5.04 mega pixel 80° fix focus       |
| 14 |  <b>96369</b><br>USB 2.0 IR Camera Module<br>5.04 mega pixel 55° V5 fix focus | 15 |  <b>96370</b><br>USB 2.0 Camera Module<br>5.04 mega pixel 55° V5 fix focus  |
| 16 |  <b>96371</b><br>USB 2.0 IR Camera Module<br>5.04 mega pixel 48° V5 fix focus | 17 |  <b>96372</b><br>USB 2.0 Camera Module<br>5.04 mega pixel 48° V5 fix focus  |
| 18 |  <b>96382</b><br>USB 2.0 Camera Module<br>5.04 mega pixel 80° V5 fix focus    | 19 |  <b>96383</b><br>USB 2.0 Camera Module<br>5.04 mega pixel 55° V5 fix focus  |

# USB 3.0 Camera Module 8 mega pixel


Supported formats: YUY2, MJPEG


Support USB3 SS.U0 (Idle), SS.U1, SS.U2, SS.U3 (Suspend) mode and USB2 Idle, Suspend mode


**USB 3.0 super-speed**

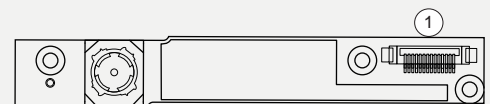


 Resolution: 8 Mega Pixel  
Maximum resolution: QUXGA (3264 x 2448)

 Lens: F/2.0

 Power consumption:  
Sensor suspend: 1 mA  
Sensor active: 450 mA @ 3280 x 2464 pixel

 Frame rates:  
30 fps @ VGA, 720p, 1080p  
15 fps @ 5M and 8M




① USB 3.0 super-speed

  
**Windows**  
XP/Vista/7/8

  
PC with  
UVC support

  
Module Weight  
2.5 g

  
Dimensions  
62 x 8 x 5 mm

  
Power Supply  
3.3 V

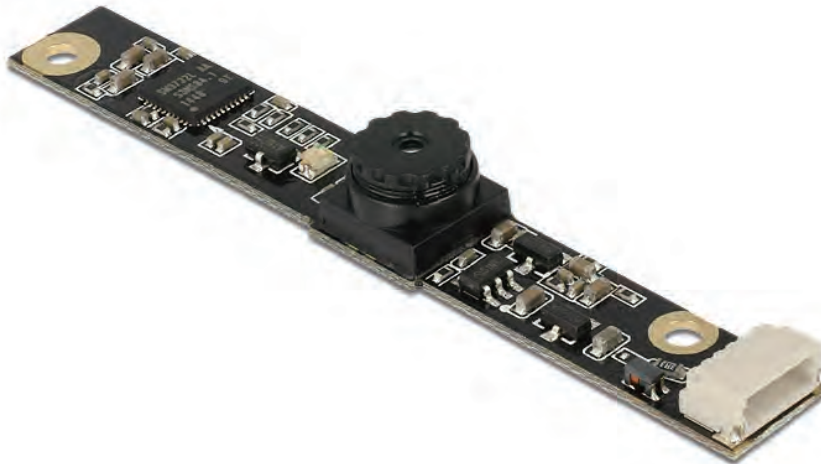
  
Operating temperature  
0°C ~ 60°C


# USB 2.0 Camera Module 3.14 mega pixel 48° V5 fix focus


Output support for RAW RGB, RGB565/555/444, CCIR656,  
YUV422/420, YCbCr422 and compression


Relative humidity during operation: max. 80 %


**With optical IR filter**

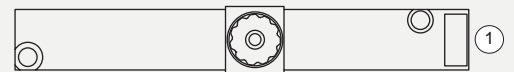


 Resolution: 3.14 Mega Pixel  
Maximum resolution: QXGA (2048 x 1536)

 Lens: F/2.8

 Power consumption:  
Sensor suspend: 90 mA  
Sensor active: 430 mA ± 5 mA @ 640 x 480 pixel

 Frame rates:  
30 fps @ HVGA, VGA, XGA, 720p, QVGA  
15 fps @ UXGA, 1080p, QXGA




① USB 2.0 5 pin jack SMT, 1 mm pitch


  
Windows  
Vista/7/8/10

  
MS DirectX  
9.0c and above


  
Linux  
2.6.15 and above  
with Video4Linux

  
Min. CPU  
P4  
1.4 GHz  
512 MB RAM

  
PC with  
UVC support

  
Dimensions  
60 x 8 x 6.3 mm

  
Operating voltage  
5 V DC

  
Operating temperature  
5 °C ~ 50 °C


# USB 2.0 Camera Module 3.14 mega pixel 55° V5 fix focus


Output support for RAW RGB, RGB565/555/444, CCIR656,  
YUV422/420, YCbCr422 and compression


Relative humidity during operation: max. 80 %


**With optical IR filter**



 Resolution: 3.14 Mega Pixel  
Maximum resolution: QXGA (2048 x 1536)

 Lens: F/3.0

 Power consumption:  
Sensor suspend: 90 mA  
Sensor active: 430 mA ± 5 mA @ 640 x 480 pixel

 Frame rates:  
30 fps @ HVGA, VGA, XGA, 720p, QVGA  
15 fps @ UXGA, 1080p, QXGA




① USB 2.0 5 pin jack SMT, 1 mm pitch


  
Windows  
Vista/7/8/10

  
MS DirectX  
9.0c and above


  
Linux  
2.6.15 and above  
with Video4Linux

  
Min. CPU  
P4  
1.4 GHz  
512 MB RAM

  
PC with  
UVC support

  
Dimensions  
60 x 8 x 12 mm

  
Operating voltage  
5 V DC

  
Operating temperature  
5 °C ~ 50 °C


# USB 2.0 Camera Module 3.14 mega pixel 80° V5 fix focus


Output support for RAW RGB, RGB565/555/444, CCIR656,  
YUV422/420, YCbCr422 and compression


Relative humidity during operation: max. 80 %


**With optical IR filter**



 Resolution: 3.14 Mega Pixel  
Maximum resolution: QXGA (2048 x 1536)

 Lens: F/2.5

 Power consumption:  
Sensor suspend: 90 mA  
Sensor active: 430 mA ± 5 mA @ 640 x 480 pixel

 Frame rates:  
30 fps @ HVGA, VGA, XGA, 720p, QVGA  
15 fps @ UXGA, 1080p, QXGA




① USB 2.0 5 pin jack SMT, 1 mm pitch


  
**Windows**  
Vista/7/8/10

  
**MS DirectX**  
9.0c and above


  
**Linux**  
2.6.15 and above  
with Video4Linux

  
**Min. CPU**  
**P4**  
1.4 GHz  
512 MB RAM

  
PC with  
UVC support

  
Dimensions  
60 x 8 x 13 mm

  
Operating voltage  
5 V DC

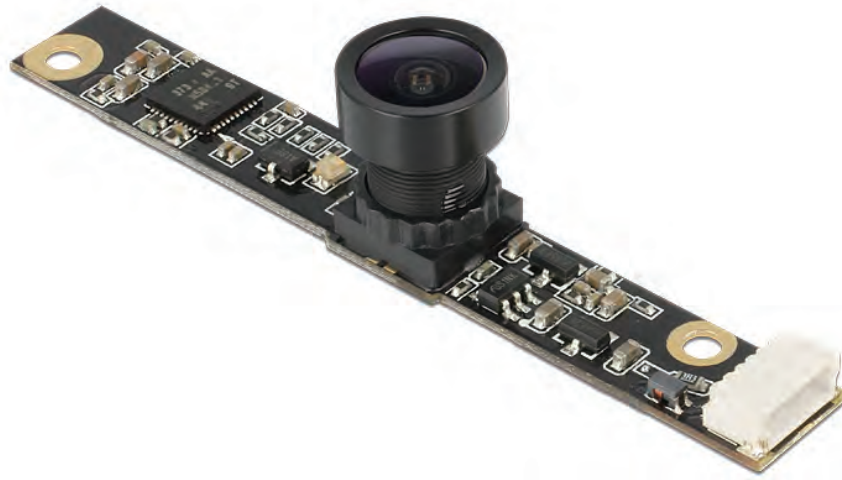
  
Operating temperature  
5 °C ~ 50 °C


# USB 2.0 IR Camera Module 3.14 mega pixel 80° V5 fix focus


Output support for RAW RGB, RGB565/555/444, CCIR656,  
YUV422/420, YCbCr422 and compression


Relative humidity during operation: max. 80 %


**Without optical IR filter**

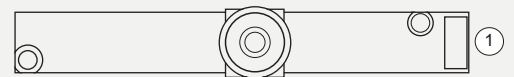


 Resolution: 3.14 Mega Pixel  
Maximum resolution: QXGA (2048 x 1536)

 Lens: F/2.5

 Power consumption:  
Sensor suspend: 90 mA  
Sensor active: 430 mA ± 5 mA @ 640 x 480 pixel

 Frame rates:  
30 fps @ HVGA, VGA, XGA, 720p, QVGA  
15 fps @ UXGA, 1080p, QXGA




① USB 2.0 5 pin jack SMT, 1 mm pitch


  
**Windows**  
Vista/7/8/10

  
**MS DirectX**  
9.0c and above


  
**Linux**  
2.6.15 and above  
with Video4Linux

  
**Min. CPU P4**  
1.4 GHz  
512 MB RAM

  
PC with  
UVC support

  
Dimensions  
60 x 8 x 13 mm

  
Operating voltage  
5 V DC

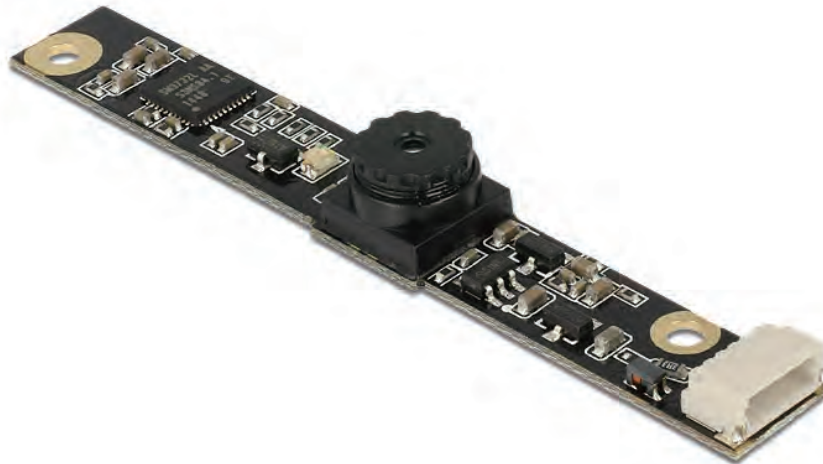
  
Operating temperature  
5 °C ~ 50 °C


# USB 2.0 IR Camera Module 3.14 mega pixel 48° V5 fix focus

Output support for RAW RGB, RGB565/555/444, CCIR656,  
YUV422/420, YCbCr422 and compression


Relative humidity during operation: max. 80 %


**Without optical IR filter**

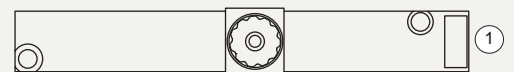


 Resolution: 3.14 Mega Pixel  
Maximum resolution: QXGA (2048 x 1536)

 Lens: F/2.8

 Power consumption:  
Sensor suspend: 90 mA  
Sensor active: 430 mA ± 5 mA @ 640 x 480 pixel

 Frame rates:  
30 fps @ HVGA, VGA, XGA, 720p, QVGA  
15 fps @ UXGA, 1080p, QXGA




① USB 2.0 5 pin jack SMT, 1 mm pitch

  
**Windows**  
Vista/7/8/10

  
**MS DirectX**  
9.0c and above


  
**Linux**  
2.6.15 and above  
with Video4Linux

  
**Min. CPU**  
**P4**  
1.4 GHz  
512 MB RAM

  
PC with  
UVC support

  
Dimensions  
60 x 8 x 6.3 mm

  
Operating voltage  
5 V DC

  
Operating temperature  
5 °C ~ 50 °C




# USB 2.0 IR Camera Module 3.14 mega pixel 55° V5 fix focus


Output support for RAW RGB, RGB565/555/444, CCIR656,  
YUV422/420, YCbCr422 and compression


Relative humidity during operation: max. 80 %

**Without optical IR filter**



 Resolution: 3.14 Mega Pixel  
Maximum resolution: QXGA (2048 x 1536)

 Lens: F/3.0

 Power consumption:  
Sensor suspend: 90 mA  
Sensor active: 430 mA ± 5 mA @ 640 x 480 pixel

 Frame rates:  
30 fps @ HVGA, VGA, XGA, 720p, QVGA  
15 fps @ UXGA, 1080p, QXGA




① USB 2.0 5 pin jack SMT, 1 mm pitch

  
**Windows**  
Vista/7/8/10

  
**MS DirectX**  
9.0c and above

  
**Linux**  
2.6.15 and above  
with Video4Linux

  
**Min. CPU**  
**P4**  
1.4 GHz  
512 MB RAM

  
PC with  
UVC support

  
Dimensions  
60 x 8 x 12 mm

  
Operating voltage  
5 V DC


  
Operating temperature  
5 °C ~ 50 °C


# USB 2.0 Camera Module 3.14 mega pixel 62° auto focus


Output support for RAW RGB, RGB565/555/444, CCIR656,  
YUV422/420, YCbCr422 and compression


Relative humidity during operation: max. 20 – 80 %

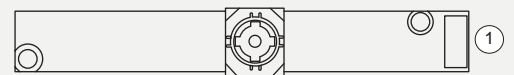


 Resolution: 3.14 Mega Pixel  
Maximum resolution: QXGA (2048 x 1536)

 Lens: F/2.8

 Power consumption:  
Sensor suspend: 90 mA  
Sensor active: 140 mA ± 5 mA @ 640 x 480 pixel

 Frame rates:  
30 fps @ HVGA, VGA, XGA, 720p, QVGA  
15 fps @ UXGA, 1080p, QXGA




① USB 2.0 5 pin jack SMT, 1 mm pitch


  
**Windows**  
Vista/7/8

  
**MS DirectX**  
9.0c and above


  
**Linux**  
2.6.15 and above  
with Video4Linux

  
**Min. CPU**  
**P4**  
1.4 GHz  
512 MB RAM

  
PC with  
UVC support

  
Dimensions  
60 x 8 x 5.8 mm

  
Operating voltage  
5 V


  
Operating temperature  
5 °C ~ 40 °C


# USB 2.0 Camera Module 5.04 mega pixel 62° auto focus


Output support for RAW RGB, RGB565/555/444, CCIR656,  
YUV422/420, YCbCr422 and compression


Relative humidity during operation: max. 20 – 80 %

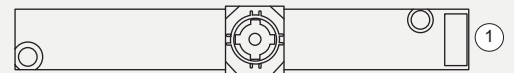


 Resolution: 5.04 Mega Pixel  
Maximum resolution: QSXGA (2592 x 1944)









 Lens: F/2.8

 Power consumption:  
Sensor suspend: 90 mA  
Sensor active: 140 mA ± 5 mA @ 640 x 480 pixel

 Frame rates:  
30 fps @ HVGA, VGA, XGA, 720p, QVGA  
15 fps @ UXGA, 1080p, QXGA

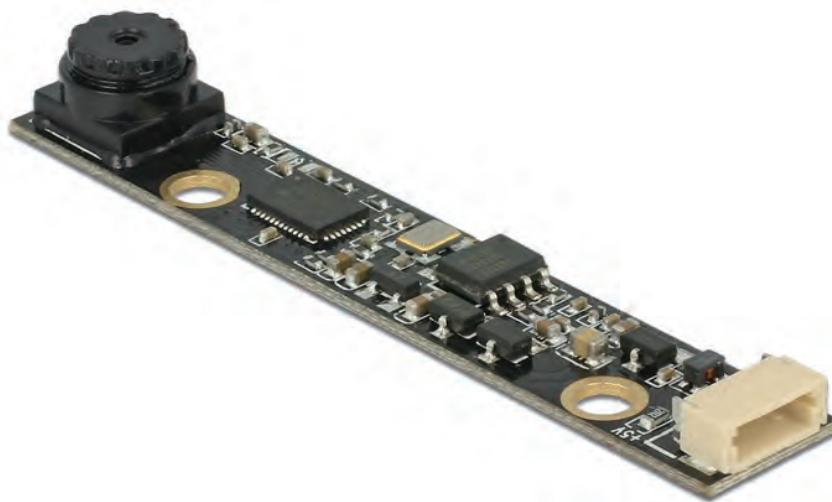



① USB 2.0 5 pin jack SMT, 1 mm pitch


							
Windows	MS DirectX	Linux	Min. CPU P4	PC with UVC support	Dimensions 60 x 8 x 5.8 mm	Operating voltage 5 V	Operating temperature 5 °C ~ 40 °C
XP(SP2)/Vista/7/8	9.0c and above	2.6.15 and above with Video4Linux	1.4 GHz 128 MB RAM				


# USB 2.0 Camera Module 1.92 mega pixel 45° edge fix focus


**With optical IR filter**

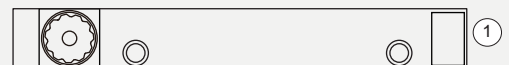


 Resolution: 1.92 Mega Pixel  
Maximum resolution: 720 p (1280 x 720)

 Lens: F/2.5

 Power consumption:  
Sensor suspend: 9 mA  
Sensor active: 100 mA ± 10 mA @ 720p

 Frame rates:  
30 fps @ HVGA, VGA, XGA, 720p, QVGA





① USB 2.0 5 pin jack SMT, 1 mm pitch


  
**Windows**  
Vista/7/8/10

  
**MS DirectX**  
9.0c and above

  
**Linux**  
2.6.15 and above  
with Video4Linux

  
**Min CPU P4**  
1.4 GHz  
512 MB RAM

  
**Dimensions**  
60 x 8 x 6.3 mm

  
**Operating voltage**  
5 V

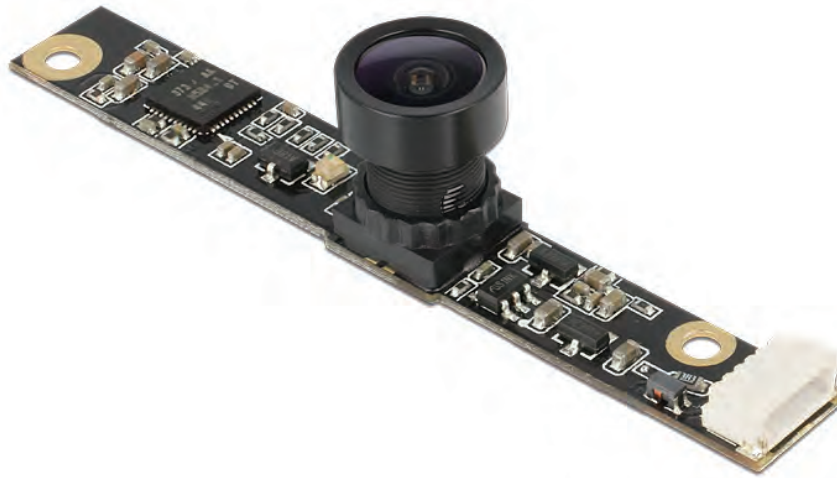
  
**Operating temperature**  
0 °C ~ 50 °C

# USB 2.0 IR Camera Module 5.04 mega pixel 80° V5 fix focus

Output support for RAW RGB, RGB565/555/444, CCIR656,  
YUV422/420, YCbCr422 and compression

Relative humidity during operation: max. 80 %

**Without optical IR filter**

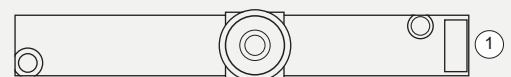


Resolution: 5.04 Mega Pixel  
Maximum resolution: QSXGA (2592 x 1944)

Lens: F/2.5

Power consumption:  
Sensor suspend: 90 mA  
Sensor active: 140 mA ± 5 mA @ 640 x 480 pixel

Frame rates:  
30 fps @ HVGA, VGA, XGA, 720p, QVGA  
15 fps @ UXGA, 1080p, QXGA  
7 fps @ 2592 x 1944



① USB 2.0 5 pin jack SMT, 1 mm pitch

**Windows**  
Vista/7/8/10

**MS DirectX**  
9.0c and above

**Linux**  
2.6.15 and above  
with Video4Linux

**Min. CPU**  
**P4**  
1.4 GHz  
512 MB RAM

**PC with UVC support**

**Dimensions**  
60 x 8 x 13 mm

**Operating voltage**  
5 V DC

**Operating temperature**  
5 °C ~ 50 °C

# USB 2.0 Camera Module 5.04 mega pixel 80° fix focus


Output support for RAW RGB, RGB565/555/444, CCIR656,  
YUV422/420, YCbCr422 and compression


Relative humidity during operation: max. 80 %


**Without optical IR filter**



 Resolution: 5.04 Mega Pixel  
Maximum resolution: QSXGA (2592 x 1944)









 Lens: F/2.5

 Power consumption:  
Sensor suspend: 90 mA  
Sensor active: 140 mA ± 5 mA @ 640 x 480 pixel

 Frame rates:  
30 fps @ HVGA, VGA, XGA, 720p, QVGA  
15 fps @ UXGA, 1080p, QXGA  
7 fps @ 2592 x 1944



① USB 2.0 5 pin jack SMT, 1 mm pitch

							
Windows	MS DirectX	Linux	Min. CPU P4	PC with UVC support	Dimensions	Operating voltage	Operating temperature
Vista/7/8/10	9.0c and above	2.6.15 and above with Video4Linux	1.4 GHz 512 MB RAM		60 x 8 x 13 mm	5 V DC	5 °C ~ 50 °C


# USB 2.0 IR Camera Module 5.04 mega pixel 55° V5 fix focus


Output support for RAW RGB, RGB565/555/444, CCIR656,  
YUV422/420, YCbCr422 and compression


Relative humidity during operation: max. 80 %


**Without optical IR filter**



 Resolution: 5.04 Mega Pixel  
Maximum resolution: QSXGA (2592 x 1944)

 Lens: F/3.0

 Power consumption:  
Sensor suspend: 90 mA  
Sensor active: 140 mA ± 5 mA @ 640 x 480 pixel


 Frame rates:  
30 fps @ HVGA, VGA, XGA, 720p, QVGA  
15 fps @ UXGA, 1080p, QXGA  
7 fps @ 2592 x 1944




① USB 2.0 5 pin jack SMT, 1 mm pitch


  
**Windows**  
Vista/7/8/10

  
**MS DirectX**  
9.0c and above


  
**Linux**  
2.6.15 and above  
with Video4Linux

  
**Min. CPU**  
**P4**  
1.4 GHz  
512 MB RAM

  
PC with  
UVC support

  
Dimensions  
60 x 8 x 12 mm

  
Operating voltage  
5 V DC

  
Operating temperature  
5 °C ~ 50 °C


# USB 2.0 Camera Module 5.04 mega pixel 55° V5 fix focus


Output support for RAW RGB, RGB565/555/444, CCIR656,  
YUV422/420, YCbCr422 and compression


Relative humidity during operation: max. 80 %


**With optical IR filter**

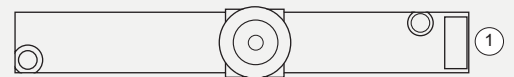


 Resolution: 5.04 Mega Pixel  
Maximum resolution: QSXGA (2592 x 1944)









 Lens: F/3.0

 Power consumption:  
Sensor suspend: 90 mA  
Sensor active: 140 mA ± 5 mA @ 640 x 480 pixel

 Frame rates:  
30 fps @ HVGA, VGA, XGA, 720p, QVGA  
15 fps @ UXGA, 1080p, QXGA  
7 fps @ 2592 x 1944



① USB 2.0 5 pin jack SMT, 1 mm pitch

							
Windows	MS DirectX	Linux	Min. CPU P4	PC with UVC support	Dimensions	Operating voltage	Operating temperature
Vista/7/8/10	9.0c and above	2.6.15 and above with Video4Linux	1.4 GHz 512 MB RAM		60 x 8 x 12 mm	5 V DC	5 °C ~ 50 °C

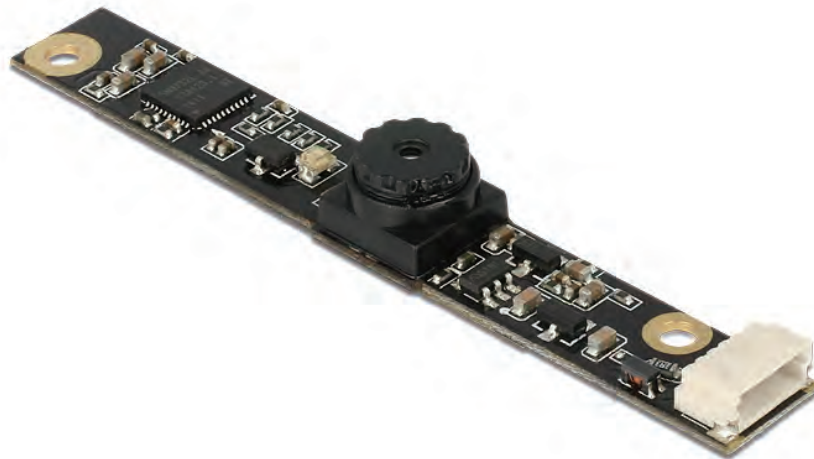



# USB 2.0 IR Camera Module 5.04 mega pixel 48° V5 fix focus


Output support for RAW RGB, RGB565/555/444, CCIR656,  
YUV422/420, YCbCr422 and compression


Relative humidity during operation: max. 80 %


**Without optical IR filter**

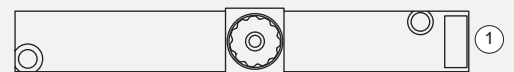


 Resolution: 5.04 Mega Pixel  
Maximum resolution: QSXGA (2592 x 1944)

 Lens: F/2.8

 Power consumption:  
Sensor suspend: 90 mA  
Sensor active: 140 mA ± 5 mA @ 640 x 480 pixel


 Frame rates:  
30 fps @ HVGA, VGA, XGA, 720p, QVGA  
15 fps @ UXGA, 1080p, QXGA  
7 fps @ 2592 x 1944




① USB 2.0 5 pin jack SMT, 1 mm pitch


  
Windows  
Vista/7/8/10

  
MS DirectX  
9.0c and above


  
Linux  
2.6.15 and above  
with Video4Linux

  
Min. CPU  
P4  
1.4 GHz  
512 MB RAM

  
PC with  
UVC support

  
Dimensions  
60 x 8 x 6.3 mm

  
Operating voltage  
5 V DC

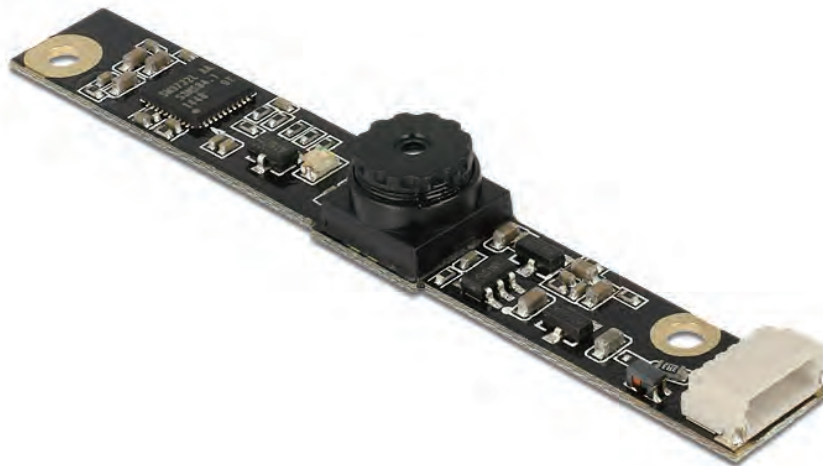
  
Operating temperature  
5 °C ~ 50 °C

# USB 2.0 Camera Module 5.04 mega pixel 48° V5 fix focus


Output support for RAW RGB, RGB565/555/444, CCIR656,  
YUV422/420, YCbCr422 and compression


Relative humidity during operation: max. 80 %


**With optical IR filter**

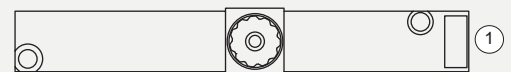


 Resolution: 5.04 Mega Pixel  
Maximum resolution: QSXGA (2592 x 1944)

 Lens: F/2.8

 Power consumption:  
Sensor suspend: 90 mA  
Sensor active: 140 mA ± 5 mA @ 640 x 480 pixel

 Frame rates:  
30 fps @ HVGA, VGA, XGA, 720p, QVGA  
15 fps @ UXGA, 1080p, QXGA  
7 fps @ 2592 x 1944




① USB 2.0 5 pin jack SMT, 1 mm pitch


  
Windows  
Vista/7/8/10

  
MS DirectX  
9.0c and above


  
Linux  
2.6.15 and above  
with Video4Linux

  
Min. CPU  
P4  
1.4 GHz  
512 MB RAM

  
PC with  
UVC support

  
Dimensions  
60 x 8 x 6.3 mm

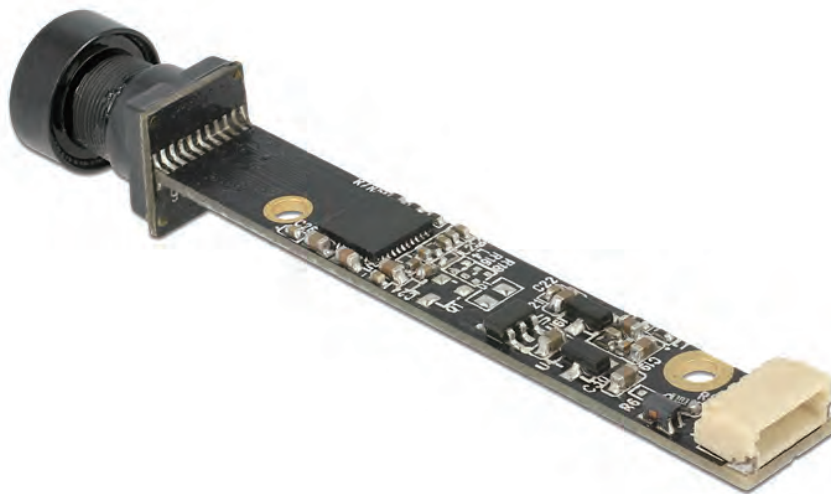
  
Operating voltage  
5 V DC

  
Operating temperature  
5 °C ~ 50 °C


# USB 2.0 Camera Module 5.04 mega pixel lens side facing 80° V5 fix focus


Supported formats: MJPG (compressed), YUYV: YUV 4:2:2  
Relative humidity during operation: max. 80 %


**With optical IR filter**

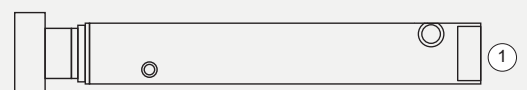


 Resolution: 5.04 Mega Pixel  
Maximum resolution: QSXGA (2592 x 1944)









 Lens: F/2.9

 Power consumption:  
Sensor suspend: 90 mA  
Sensor active: 140 mA ± 5 mA @ 640 x 480 pixel

 Frame rates:  
30 fps @ HVGA, VGA, XGA, 720p, QVGA  
15 fps @ UXGA, 1080p, QXGA  
7 fps @ 2592 x 1944



① USB 2.0 5 pin jack SMT, 1 mm pitch


							
Windows	MS DirectX	Linux	Min. CPU P4	PC with UVC support	Dimensions	Operating voltage	Operating temperature
7/7-64/8.1/ 8.1-64/10/10-64	9.0c and above	2.6.15 and above with Video4Linux	1.4 GHz 512 MB RAM		61.5 x 8 x 12 mm	5 V DC	5 °C ~ 50 °C

# USB 2.0 Camera Module 5.04 mega pixel lens side facing 55° V5 fix focus


Supported formats: MJPG (compressed), YUYV: YUV 4:2:2  
Relative humidity during operation: max. 80 %


**With optical IR filter**

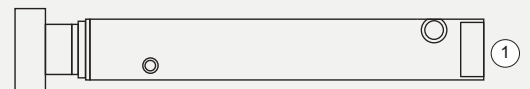


 Resolution: 5.04 Mega Pixel  
Maximum resolution: QSXGA (2592 x 1944)









 Lens: F/3.0

 Power consumption:  
Sensor suspend: 90 mA  
Sensor active: 140 mA ± 5 mA @ 640 x 480 pixel

 Frame rates:  
30 fps @ HVGA, VGA, XGA, 720p, QVGA  
15 fps @ UXGA, 1080p, QXGA  
7 fps @ 2592 x 1944



① USB 2.0 5 pin jack SMT, 1 mm pitch

							
Windows	MS DirectX	Linux	Min. CPU P4	PC with UVC support	Dimensions	Operating voltage	Operating temperature
7/7-64/8.1/ 8.1-64/10/10-64	9.0c and above	2.6.15 and above with Video4Linux	1.4 GHz 512 MB RAM		62.8 x 8 x 12 mm	5 V DC	5 °C ~ 50 °C