

```
lsusb -vv -d 046d:0837
```

```
lsusb -v
```

Bus 003 Device 024: ID 046d:0837 Logitech, Inc. BCC950 ConferenceCam

Couldn't open device, some information will be missing

Device Descriptor:

```
bLength          18
bDescriptorType   1
bcdUSB            2.00
bDeviceClass      239 Miscellaneous Device
bDeviceSubClass   2 ?
bDeviceProtocol    1 Interface Association
bMaxPacketSize0   64
idVendor          0x046d Logitech, Inc.
idProduct         0x0837 BCC950 ConferenceCam
bcdDevice         0.11
iManufacturer     0
iProduct          2
iSerial           0
bNumConfigurations 1
```

Configuration Descriptor:

```
bLength          9
bDescriptorType   2
wTotalLength      2331
bNumInterfaces    3
bConfigurationValue 1
iConfiguration    0
bmAttributes      0x80
  (Bus Powered)
MaxPower          500mA
```

Interface Association:

```
bLength          8
bDescriptorType   11
bFirstInterface   0
bInterfaceCount   2
bFunctionClass     14 Video
bFunctionSubClass  3 Video Interface Collection
bFunctionProtocol  0
iFunction          0
```

Interface Descriptor:

```
bLength          9
bDescriptorType   4
bInterfaceNumber  0
bAlternateSetting 0
bNumEndpoints     1
bInterfaceClass    14 Video
bInterfaceSubClass 1 Video Control
bInterfaceProtocol 0
iInterface         0
```

VideoControl Interface Descriptor:

```

bLength          13
bDescriptorType   36
bDescriptorSubtype 1 (HEADER)
bcdUVC           1.00
wTotalLength      214
dwClockFrequency  300.000000MHz
bInCollection     1
baInterfaceNr( 0) 1
VideoControl Interface Descriptor:
bLength          18
bDescriptorType   36
bDescriptorSubtype 2 (INPUT_TERMINAL)
bTerminalID       1
wTerminalType     0x0201 Camera Sensor
bAssocTerminal    0
iTerminal         0
wObjectiveFocalLengthMin 0
wObjectiveFocalLengthMax 0
wOcularFocalLength 0
bControlSize      3
bmControls        0x0002122e
    Auto-Exposure Mode
    Auto-Exposure Priority
    Exposure Time (Absolute)
    Focus (Absolute)
    Zoom (Absolute)
    PanTilt (Relative)
    Focus, Auto
VideoControl Interface Descriptor:
bLength          11
bDescriptorType   36
bDescriptorSubtype 5 (PROCESSING_UNIT)
Warning: Descriptor too short
bUnitID          3
bSourceID        1
wMaxMultiplier   16384
bControlSize      2
bmControls        0x0000175b
    Brightness
    Contrast
    Saturation
    Sharpness
    White Balance Temperature
    Backlight Compensation
    Gain
    Power Line Frequency
    White Balance Temperature, Auto
iProcessing       0
bmVideoStandards  0x1b
    None
    NTSC - 525/60
    SECAM - 625/50

```

NTSC - 625/50

VideoControl Interface Descriptor:

bLength 27  
bDescriptorType 36  
bDescriptorSubtype 6 (EXTENSION\_UNIT)  
bUnitID 6  
guidExtensionCode {d09ee423-7811-314f-ae52-d2fb8a8d3b48}  
bNumControl 10  
bNrPins 1  
baSourceID( 0) 3  
bControlSize 2  
bmControls( 0) 0xff  
bmControls( 1) 0x03  
iExtension 0

VideoControl Interface Descriptor:

bLength 27  
bDescriptorType 36  
bDescriptorSubtype 6 (EXTENSION\_UNIT)  
bUnitID 8  
guidExtensionCode {e48e6769-0f41-db40-a850-7420d7d8240e}  
bNumControl 7  
bNrPins 1  
baSourceID( 0) 1  
bControlSize 2  
bmControls( 0) 0x3b  
bmControls( 1) 0x03  
iExtension 0

VideoControl Interface Descriptor:

bLength 28  
bDescriptorType 36  
bDescriptorSubtype 6 (EXTENSION\_UNIT)  
bUnitID 9  
guidExtensionCode {a94c5d1f-11de-8744-840d-50933c8ec8d1}  
bNumControl 16  
bNrPins 1  
baSourceID( 0) 1  
bControlSize 3  
bmControls( 0) 0xf3  
bmControls( 1) 0xff  
bmControls( 2) 0x03  
iExtension 0

VideoControl Interface Descriptor:

bLength 27  
bDescriptorType 36  
bDescriptorSubtype 6 (EXTENSION\_UNIT)  
bUnitID 10  
guidExtensionCode {1502e449-34f4-fe47-b158-0e885023e51b}  
bNumControl 7  
bNrPins 1  
baSourceID( 0) 1  
bControlSize 2  
bmControls( 0) 0xaa

bmControls( 1)     0x07

iExtension        0

VideoControl Interface Descriptor:

bLength           27

bDescriptorType    36

bDescriptorSubtype 6 (EXTENSION\_UNIT)

bUnitID           11

guidExtensionCode {212de5ff-3080-2c4e-82d9-f587d00540bd}

bNumControl       6

bNrPins           1

baSourceID( 0)    1

bControlSize       2

bmControls( 0)    0x07

bmControls( 1)    0x83

iExtension        0

VideoControl Interface Descriptor:

bLength           27

bDescriptorType    36

bDescriptorSubtype 6 (EXTENSION\_UNIT)

bUnitID           12

guidExtensionCode {41769ea2-04de-e347-8b2b-f4341aff003b}

bNumControl       11

bNrPins           1

baSourceID( 0)    3

bControlSize       2

bmControls( 0)    0x07

bmControls( 1)    0x7f

iExtension        0

VideoControl Interface Descriptor:

bLength           9

bDescriptorType    36

bDescriptorSubtype 3 (OUTPUT\_TERMINAL)

bTerminalID        4

wTerminalType     0x0101 USB Streaming

bAssocTerminal     0

bSourceID          3

iTerminal          0

Endpoint Descriptor:

bLength           7

bDescriptorType    5

bEndpointAddress 0x83 EP 3 IN

bmAttributes       3

Transfer Type       Interrupt

Synch Type          None

Usage Type          Data

wMaxPacketSize 0x0040 1x 64 bytes

bInterval          8

Interface Descriptor:

bLength           9

bDescriptorType    4

bInterfaceNumber   1

bAlternateSetting   0

bNumEndpoints 0  
bInterfaceClass 14 Video  
bInterfaceSubClass 2 Video Streaming  
bInterfaceProtocol 0  
iInterface 0

VideoStreaming Interface Descriptor:

bLength 15  
bDescriptorType 36  
bDescriptorSubtype 1 (INPUT\_HEADER)  
bNumFormats 2  
wTotalLength 1869  
bEndPointAddress 129  
bmInfo 0  
bTerminalLink 4  
bStillCaptureMethod 0  
bTriggerSupport 0  
bTriggerUsage 0  
bControlSize 1  
bmaControls( 0) 27  
bmaControls( 1) 27

VideoStreaming Interface Descriptor:

bLength 27  
bDescriptorType 36  
bDescriptorSubtype 4 (FORMAT\_UNCOMPRESSED)  
bFormatIndex 1  
bNumFrameDescriptors 19  
guidFormat {59555932-0000-1000-8000-00aa00389b71}  
bBitsPerPixel 16  
bDefaultFrameIndex 1  
bAspectRatioX 0  
bAspectRatioY 0  
bmInterlaceFlags 0x00  
Interlaced stream or variable: No  
Fields per frame: 2 fields  
Field 1 first: No  
Field pattern: Field 1 only  
bCopyProtect 0

VideoStreaming Interface Descriptor:

bLength 54  
bDescriptorType 36  
bDescriptorSubtype 5 (FRAME\_UNCOMPRESSED)  
bFrameIndex 1  
bmCapabilities 0x00  
Still image unsupported  
wWidth 640  
wHeight 480  
dwMinBitRate 24576000  
dwMaxBitRate 147456000  
dwMaxVideoFrameBufferSize 614400  
dwDefaultFrameInterval 333333  
bFrameIntervalType 7  
dwFrameInterval( 0) 333333

dwFrameInterval( 1)	416666
dwFrameInterval( 2)	500000
dwFrameInterval( 3)	666666
dwFrameInterval( 4)	1000000
dwFrameInterval( 5)	1333333
dwFrameInterval( 6)	2000000

VideoStreaming Interface Descriptor:

bLength	54
bDescriptorType	36
bDescriptorSubtype	5 (FRAME_UNCOMPRESSED)
bFrameIndex	2
bmCapabilities	0x00
Still image unsupported	
wWidth	160
wHeight	90
dwMinBitRate	1152000
dwMaxBitRate	6912000
dwMaxVideoFrameBufferSize	28800
dwDefaultFrameInterval	333333
bFrameIntervalType	7
dwFrameInterval( 0)	333333
dwFrameInterval( 1)	416666
dwFrameInterval( 2)	500000
dwFrameInterval( 3)	666666
dwFrameInterval( 4)	1000000
dwFrameInterval( 5)	1333333
dwFrameInterval( 6)	2000000

VideoStreaming Interface Descriptor:

bLength	54
bDescriptorType	36
bDescriptorSubtype	5 (FRAME_UNCOMPRESSED)
bFrameIndex	3
bmCapabilities	0x00
Still image unsupported	
wWidth	160
wHeight	120
dwMinBitRate	1536000
dwMaxBitRate	9216000
dwMaxVideoFrameBufferSize	38400
dwDefaultFrameInterval	333333
bFrameIntervalType	7
dwFrameInterval( 0)	333333
dwFrameInterval( 1)	416666
dwFrameInterval( 2)	500000
dwFrameInterval( 3)	666666
dwFrameInterval( 4)	1000000
dwFrameInterval( 5)	1333333
dwFrameInterval( 6)	2000000

VideoStreaming Interface Descriptor:

bLength	54
bDescriptorType	36
bDescriptorSubtype	5 (FRAME_UNCOMPRESSED)

bFrameIndex	4
bmCapabilities	0x00
Still image unsupported	
wWidth	176
wHeight	144
dwMinBitRate	2027520
dwMaxBitRate	12165120
dwMaxVideoFrameBufferSize	50688
dwDefaultFrameInterval	333333
bFrameIntervalType	7
dwFrameInterval( 0)	333333
dwFrameInterval( 1)	416666
dwFrameInterval( 2)	500000
dwFrameInterval( 3)	666666
dwFrameInterval( 4)	1000000
dwFrameInterval( 5)	1333333
dwFrameInterval( 6)	2000000

VideoStreaming Interface Descriptor:

bLength	54
bDescriptorType	36
bDescriptorSubtype	5 (FRAME_UNCOMPRESSED)
bFrameIndex	5
bmCapabilities	0x00
Still image unsupported	
wWidth	320
wHeight	180
dwMinBitRate	4608000
dwMaxBitRate	27648000
dwMaxVideoFrameBufferSize	115200
dwDefaultFrameInterval	333333
bFrameIntervalType	7
dwFrameInterval( 0)	333333
dwFrameInterval( 1)	416666
dwFrameInterval( 2)	500000
dwFrameInterval( 3)	666666
dwFrameInterval( 4)	1000000
dwFrameInterval( 5)	1333333
dwFrameInterval( 6)	2000000

VideoStreaming Interface Descriptor:

bLength	54
bDescriptorType	36
bDescriptorSubtype	5 (FRAME_UNCOMPRESSED)
bFrameIndex	6
bmCapabilities	0x00
Still image unsupported	
wWidth	320
wHeight	240
dwMinBitRate	6144000
dwMaxBitRate	36864000
dwMaxVideoFrameBufferSize	153600
dwDefaultFrameInterval	333333
bFrameIntervalType	7

dwFrameInterval( 0)	333333
dwFrameInterval( 1)	416666
dwFrameInterval( 2)	500000
dwFrameInterval( 3)	666666
dwFrameInterval( 4)	1000000
dwFrameInterval( 5)	1333333
dwFrameInterval( 6)	2000000

VideoStreaming Interface Descriptor:

bLength	54
bDescriptorType	36
bDescriptorSubtype	5 (FRAME_UNCOMPRESSED)
bFrameIndex	7
bmCapabilities	0x00
Still image unsupported	
wWidth	352
wHeight	288
dwMinBitRate	8110080
dwMaxBitRate	48660480
dwMaxVideoFrameBufferSize	202752
dwDefaultFrameInterval	333333
bFrameIntervalType	7
dwFrameInterval( 0)	333333
dwFrameInterval( 1)	416666
dwFrameInterval( 2)	500000
dwFrameInterval( 3)	666666
dwFrameInterval( 4)	1000000
dwFrameInterval( 5)	1333333
dwFrameInterval( 6)	2000000

VideoStreaming Interface Descriptor:

bLength	54
bDescriptorType	36
bDescriptorSubtype	5 (FRAME_UNCOMPRESSED)
bFrameIndex	8
bmCapabilities	0x00
Still image unsupported	
wWidth	432
wHeight	240
dwMinBitRate	8294400
dwMaxBitRate	49766400
dwMaxVideoFrameBufferSize	207360
dwDefaultFrameInterval	333333
bFrameIntervalType	7
dwFrameInterval( 0)	333333
dwFrameInterval( 1)	416666
dwFrameInterval( 2)	500000
dwFrameInterval( 3)	666666
dwFrameInterval( 4)	1000000
dwFrameInterval( 5)	1333333
dwFrameInterval( 6)	2000000

VideoStreaming Interface Descriptor:

bLength	54
bDescriptorType	36



bDescriptorSubtype 5 (FRAME\_UNCOMPRESSED)  
bFrameIndex 9  
bmCapabilities 0x00  
Still image unsupported  
wWidth 640  
wHeight 360  
dwMinBitRate 18432000  
dwMaxBitRate 110592000  
dwMaxVideoFrameBufferSize 460800  
dwDefaultFrameInterval 333333  
bFrameIntervalType 7  
dwFrameInterval( 0) 333333  
dwFrameInterval( 1) 416666  
dwFrameInterval( 2) 500000  
dwFrameInterval( 3) 666666  
dwFrameInterval( 4) 1000000  
dwFrameInterval( 5) 1333333  
dwFrameInterval( 6) 2000000

VideoStreaming Interface Descriptor:

bLength 54  
bDescriptorType 36  
bDescriptorSubtype 5 (FRAME\_UNCOMPRESSED)  
bFrameIndex 10  
bmCapabilities 0x00  
Still image unsupported  
wWidth 800  
wHeight 448  
dwMinBitRate 28672000  
dwMaxBitRate 172032000  
dwMaxVideoFrameBufferSize 716800  
dwDefaultFrameInterval 333333  
bFrameIntervalType 7  
dwFrameInterval( 0) 333333  
dwFrameInterval( 1) 416666  
dwFrameInterval( 2) 500000  
dwFrameInterval( 3) 666666  
dwFrameInterval( 4) 1000000  
dwFrameInterval( 5) 1333333  
dwFrameInterval( 6) 2000000

VideoStreaming Interface Descriptor:

bLength 50  
bDescriptorType 36  
bDescriptorSubtype 5 (FRAME\_UNCOMPRESSED)  
bFrameIndex 11  
bmCapabilities 0x00  
Still image unsupported  
wWidth 800  
wHeight 600  
dwMinBitRate 38400000  
dwMaxBitRate 184320000  
dwMaxVideoFrameBufferSize 960000  
dwDefaultFrameInterval 416666

bFrameIntervalType 6  
dwFrameInterval( 0) 416666  
dwFrameInterval( 1) 500000  
dwFrameInterval( 2) 666666  
dwFrameInterval( 3) 1000000  
dwFrameInterval( 4) 1333333  
dwFrameInterval( 5) 2000000

VideoStreaming Interface Descriptor:

bLength 50  
bDescriptorType 36  
bDescriptorSubtype 5 (FRAME\_UNCOMPRESSED)  
bFrameIndex 12  
bmCapabilities 0x00

Still image unsupported

wWidth 864  
wHeight 480  
dwMinBitRate 33177600  
dwMaxBitRate 159252480  
dwMaxVideoFrameBufferSize 829440  
dwDefaultFrameInterval 416666  
bFrameIntervalType 6  
dwFrameInterval( 0) 416666  
dwFrameInterval( 1) 500000  
dwFrameInterval( 2) 666666  
dwFrameInterval( 3) 1000000  
dwFrameInterval( 4) 1333333  
dwFrameInterval( 5) 2000000

VideoStreaming Interface Descriptor:

bLength 42  
bDescriptorType 36  
bDescriptorSubtype 5 (FRAME\_UNCOMPRESSED)  
bFrameIndex 13  
bmCapabilities 0x00

Still image unsupported

wWidth 960  
wHeight 720  
dwMinBitRate 55296000  
dwMaxBitRate 165888000  
dwMaxVideoFrameBufferSize 1382400  
dwDefaultFrameInterval 666666  
bFrameIntervalType 4  
dwFrameInterval( 0) 666666  
dwFrameInterval( 1) 1000000  
dwFrameInterval( 2) 1333333  
dwFrameInterval( 3) 2000000

VideoStreaming Interface Descriptor:

bLength 42  
bDescriptorType 36  
bDescriptorSubtype 5 (FRAME\_UNCOMPRESSED)  
bFrameIndex 14  
bmCapabilities 0x00

Still image unsupported

wWidth	1024
wHeight	576
dwMinBitRate	47185920
dwMaxBitRate	141557760
dwMaxVideoFrameBufferSize	1179648
dwDefaultFrameInterval	666666
bFrameIntervalType	4
dwFrameInterval( 0)	666666
dwFrameInterval( 1)	1000000
dwFrameInterval( 2)	1333333
dwFrameInterval( 3)	2000000

VideoStreaming Interface Descriptor:

bLength	38
bDescriptorType	36
bDescriptorSubtype	5 (FRAME_UNCOMPRESSED)
bFrameIndex	15
bmCapabilities	0x00
Still image unsupported	
wWidth	1280
wHeight	720
dwMinBitRate	73728000
dwMaxBitRate	147456000
dwMaxVideoFrameBufferSize	1843200
dwDefaultFrameInterval	1000000
bFrameIntervalType	3
dwFrameInterval( 0)	1000000
dwFrameInterval( 1)	1333333
dwFrameInterval( 2)	2000000

VideoStreaming Interface Descriptor:

bLength	34
bDescriptorType	36
bDescriptorSubtype	5 (FRAME_UNCOMPRESSED)
bFrameIndex	16
bmCapabilities	0x00
Still image unsupported	
wWidth	1600
wHeight	896
dwMinBitRate	114688000
dwMaxBitRate	172032000
dwMaxVideoFrameBufferSize	2867200
dwDefaultFrameInterval	1333333
bFrameIntervalType	2
dwFrameInterval( 0)	1333333
dwFrameInterval( 1)	2000000

VideoStreaming Interface Descriptor:

bLength	30
bDescriptorType	36
bDescriptorSubtype	5 (FRAME_UNCOMPRESSED)
bFrameIndex	17
bmCapabilities	0x00
Still image unsupported	
wWidth	1920

wHeight	1080
dwMinBitRate	165888000
dwMaxBitRate	165888000
dwMaxVideoFrameBufferSize	4147200
dwDefaultFrameInterval	2000000
bFrameIntervalType	1
dwFrameInterval( 0)	2000000

VideoStreaming Interface Descriptor:

bLength	30
bDescriptorType	36
bDescriptorSubtype	5 (FRAME_UNCOMPRESSED)
bFrameIndex	18
bmCapabilities	0x00
Still image unsupported	
wWidth	2304
wHeight	1296
dwMinBitRate	238878720
dwMaxBitRate	238878720
dwMaxVideoFrameBufferSize	5971968
dwDefaultFrameInterval	4999998
bFrameIntervalType	1
dwFrameInterval( 0)	4999998

VideoStreaming Interface Descriptor:

bLength	30
bDescriptorType	36
bDescriptorSubtype	5 (FRAME_UNCOMPRESSED)
bFrameIndex	19
bmCapabilities	0x00
Still image unsupported	
wWidth	2304
wHeight	1536
dwMinBitRate	283115520
dwMaxBitRate	283115520
dwMaxVideoFrameBufferSize	7077888
dwDefaultFrameInterval	4999998
bFrameIntervalType	1
dwFrameInterval( 0)	4999998

VideoStreaming Interface Descriptor:

bLength	6
bDescriptorType	36
bDescriptorSubtype	13 (COLORFORMAT)
bColorPrimaries	1 (BT.709,sRGB)
bTransferCharacteristics	1 (BT.709)
bMatrixCoefficients	4 (SMPTE 170M (BT.601))

VideoStreaming Interface Descriptor:

bLength	11
bDescriptorType	36
bDescriptorSubtype	6 (FORMAT_MJPEG)
bFormatIndex	2
bNumFrameDescriptors	17
bFlags	1
Fixed-size samples: Yes	

bDefaultFrameIndex	1
bAspectRatioX	0
bAspectRatioY	0
bmInterlaceFlags	0x00
Interlaced stream or variable: No	
Fields per frame: 1 fields	
Field 1 first: No	
Field pattern: Field 1 only	
bCopyProtect	0

VideoStreaming Interface Descriptor:

bLength	54
bDescriptorType	36
bDescriptorSubtype	7 (FRAME_MJPEG)
bFrameIndex	1
bmCapabilities	0x00
Still image unsupported	
wWidth	640
wHeight	480
dwMinBitRate	24576000
dwMaxBitRate	147456000
dwMaxVideoFrameBufferSize	614400
dwDefaultFrameInterval	333333
bFrameIntervalType	7
dwFrameInterval( 0)	333333
dwFrameInterval( 1)	416666
dwFrameInterval( 2)	500000
dwFrameInterval( 3)	666666
dwFrameInterval( 4)	1000000
dwFrameInterval( 5)	1333333
dwFrameInterval( 6)	2000000

VideoStreaming Interface Descriptor:

bLength	54
bDescriptorType	36
bDescriptorSubtype	7 (FRAME_MJPEG)
bFrameIndex	2
bmCapabilities	0x00
Still image unsupported	
wWidth	160
wHeight	90
dwMinBitRate	1152000
dwMaxBitRate	6912000
dwMaxVideoFrameBufferSize	28800
dwDefaultFrameInterval	333333
bFrameIntervalType	7
dwFrameInterval( 0)	333333
dwFrameInterval( 1)	416666
dwFrameInterval( 2)	500000
dwFrameInterval( 3)	666666
dwFrameInterval( 4)	1000000
dwFrameInterval( 5)	1333333
dwFrameInterval( 6)	2000000

VideoStreaming Interface Descriptor:

bLength	54
bDescriptorType	36
bDescriptorSubtype	7 (FRAME_MJPEG)
bFrameIndex	3
bmCapabilities	0x00
Still image unsupported	
wWidth	160
wHeight	120
dwMinBitRate	1536000
dwMaxBitRate	9216000
dwMaxVideoFrameBufferSize	38400
dwDefaultFrameInterval	333333
bFrameIntervalType	7
dwFrameInterval( 0)	333333
dwFrameInterval( 1)	416666
dwFrameInterval( 2)	500000
dwFrameInterval( 3)	666666
dwFrameInterval( 4)	1000000
dwFrameInterval( 5)	1333333
dwFrameInterval( 6)	2000000

VideoStreaming Interface Descriptor:

bLength	54
bDescriptorType	36
bDescriptorSubtype	7 (FRAME_MJPEG)
bFrameIndex	4
bmCapabilities	0x00
Still image unsupported	
wWidth	176
wHeight	144
dwMinBitRate	2027520
dwMaxBitRate	12165120
dwMaxVideoFrameBufferSize	50688
dwDefaultFrameInterval	333333
bFrameIntervalType	7
dwFrameInterval( 0)	333333
dwFrameInterval( 1)	416666
dwFrameInterval( 2)	500000
dwFrameInterval( 3)	666666
dwFrameInterval( 4)	1000000
dwFrameInterval( 5)	1333333
dwFrameInterval( 6)	2000000

VideoStreaming Interface Descriptor:

bLength	54
bDescriptorType	36
bDescriptorSubtype	7 (FRAME_MJPEG)
bFrameIndex	5
bmCapabilities	0x00
Still image unsupported	
wWidth	320
wHeight	180
dwMinBitRate	4608000
dwMaxBitRate	27648000

dwMaxVideoFrameBufferSize	115200
dwDefaultFrameInterval	333333
bFrameIntervalType	7
dwFrameInterval( 0)	333333
dwFrameInterval( 1)	416666
dwFrameInterval( 2)	500000
dwFrameInterval( 3)	666666
dwFrameInterval( 4)	1000000
dwFrameInterval( 5)	1333333
dwFrameInterval( 6)	2000000

VideoStreaming Interface Descriptor:

bLength	54
bDescriptorType	36
bDescriptorSubtype	7 (FRAME_MJPEG)
bFrameIndex	6
bmCapabilities	0x00
Still image unsupported	
wWidth	320
wHeight	240
dwMinBitRate	6144000
dwMaxBitRate	36864000
dwMaxVideoFrameBufferSize	153600
dwDefaultFrameInterval	333333
bFrameIntervalType	7
dwFrameInterval( 0)	333333
dwFrameInterval( 1)	416666
dwFrameInterval( 2)	500000
dwFrameInterval( 3)	666666
dwFrameInterval( 4)	1000000
dwFrameInterval( 5)	1333333
dwFrameInterval( 6)	2000000

VideoStreaming Interface Descriptor:

bLength	54
bDescriptorType	36
bDescriptorSubtype	7 (FRAME_MJPEG)
bFrameIndex	7
bmCapabilities	0x00
Still image unsupported	
wWidth	352
wHeight	288
dwMinBitRate	8110080
dwMaxBitRate	48660480
dwMaxVideoFrameBufferSize	202752
dwDefaultFrameInterval	333333
bFrameIntervalType	7
dwFrameInterval( 0)	333333
dwFrameInterval( 1)	416666
dwFrameInterval( 2)	500000
dwFrameInterval( 3)	666666
dwFrameInterval( 4)	1000000
dwFrameInterval( 5)	1333333
dwFrameInterval( 6)	2000000

VideoStreaming Interface Descriptor:

bLength	54
bDescriptorType	36
bDescriptorSubtype	7 (FRAME_MJPEG)
bFrameIndex	8
bmCapabilities	0x00
Still image unsupported	
wWidth	432
wHeight	240
dwMinBitRate	8294400
dwMaxBitRate	49766400
dwMaxVideoFrameBufferSize	207360
dwDefaultFrameInterval	333333
bFrameIntervalType	7
dwFrameInterval( 0)	333333
dwFrameInterval( 1)	416666
dwFrameInterval( 2)	500000
dwFrameInterval( 3)	666666
dwFrameInterval( 4)	1000000
dwFrameInterval( 5)	1333333
dwFrameInterval( 6)	2000000

VideoStreaming Interface Descriptor:

bLength	54
bDescriptorType	36
bDescriptorSubtype	7 (FRAME_MJPEG)
bFrameIndex	9
bmCapabilities	0x00
Still image unsupported	
wWidth	640
wHeight	360
dwMinBitRate	18432000
dwMaxBitRate	110592000
dwMaxVideoFrameBufferSize	460800
dwDefaultFrameInterval	333333
bFrameIntervalType	7
dwFrameInterval( 0)	333333
dwFrameInterval( 1)	416666
dwFrameInterval( 2)	500000
dwFrameInterval( 3)	666666
dwFrameInterval( 4)	1000000
dwFrameInterval( 5)	1333333
dwFrameInterval( 6)	2000000

VideoStreaming Interface Descriptor:

bLength	54
bDescriptorType	36
bDescriptorSubtype	7 (FRAME_MJPEG)
bFrameIndex	10
bmCapabilities	0x00
Still image unsupported	
wWidth	800
wHeight	448
dwMinBitRate	28672000



dwMaxBitRate	172032000
dwMaxVideoFrameBufferSize	716800
dwDefaultFrameInterval	333333
bFrameIntervalType	7
dwFrameInterval( 0)	333333
dwFrameInterval( 1)	416666
dwFrameInterval( 2)	500000
dwFrameInterval( 3)	666666
dwFrameInterval( 4)	1000000
dwFrameInterval( 5)	1333333
dwFrameInterval( 6)	2000000

VideoStreaming Interface Descriptor:

bLength	54
bDescriptorType	36
bDescriptorSubtype	7 (FRAME_MJPEG)
bFrameIndex	11
bmCapabilities	0x00
Still image unsupported	
wWidth	800
wHeight	600
dwMinBitRate	38400000
dwMaxBitRate	230400000
dwMaxVideoFrameBufferSize	960000
dwDefaultFrameInterval	333333
bFrameIntervalType	7
dwFrameInterval( 0)	333333
dwFrameInterval( 1)	416666
dwFrameInterval( 2)	500000
dwFrameInterval( 3)	666666
dwFrameInterval( 4)	1000000
dwFrameInterval( 5)	1333333
dwFrameInterval( 6)	2000000

VideoStreaming Interface Descriptor:

bLength	54
bDescriptorType	36
bDescriptorSubtype	7 (FRAME_MJPEG)
bFrameIndex	12
bmCapabilities	0x00
Still image unsupported	
wWidth	864
wHeight	480
dwMinBitRate	33177600
dwMaxBitRate	199065600
dwMaxVideoFrameBufferSize	829440
dwDefaultFrameInterval	333333
bFrameIntervalType	7
dwFrameInterval( 0)	333333
dwFrameInterval( 1)	416666
dwFrameInterval( 2)	500000
dwFrameInterval( 3)	666666
dwFrameInterval( 4)	1000000
dwFrameInterval( 5)	1333333

dwFrameInterval( 6)           2000000

VideoStreaming Interface Descriptor:

bLength                       54

bDescriptorType               36

bDescriptorSubtype            7 (FRAME\_MJPEG)

bFrameIndex                   13

bmCapabilities                0x00

    Still image unsupported

wWidth                        960

wHeight                       720

dwMinBitRate                 55296000

dwMaxBitRate                 331776000

dwMaxVideoFrameBufferSize    1382400

dwDefaultFrameInterval       333333

bFrameIntervalType            7

dwFrameInterval( 0)          333333

dwFrameInterval( 1)          416666

dwFrameInterval( 2)          500000

dwFrameInterval( 3)          666666

dwFrameInterval( 4)          1000000

dwFrameInterval( 5)          1333333

dwFrameInterval( 6)          2000000

VideoStreaming Interface Descriptor:

bLength                       54

bDescriptorType               36

bDescriptorSubtype            7 (FRAME\_MJPEG)

bFrameIndex                   14

bmCapabilities                0x00

    Still image unsupported

wWidth                        1024

wHeight                       576

dwMinBitRate                 47185920

dwMaxBitRate                 283115520

dwMaxVideoFrameBufferSize    1179648

dwDefaultFrameInterval       333333

bFrameIntervalType            7

dwFrameInterval( 0)          333333

dwFrameInterval( 1)          416666

dwFrameInterval( 2)          500000

dwFrameInterval( 3)          666666

dwFrameInterval( 4)          1000000

dwFrameInterval( 5)          1333333

dwFrameInterval( 6)          2000000

VideoStreaming Interface Descriptor:

bLength                       54

bDescriptorType               36

bDescriptorSubtype            7 (FRAME\_MJPEG)

bFrameIndex                   15

bmCapabilities                0x00

    Still image unsupported

wWidth                        1280

wHeight                       720

dwMinBitRate 73728000  
dwMaxBitRate 442368000  
dwMaxVideoFrameBufferSize 1843200  
dwDefaultFrameInterval 333333  
bFrameIntervalType 7  
dwFrameInterval( 0) 333333  
dwFrameInterval( 1) 416666  
dwFrameInterval( 2) 500000  
dwFrameInterval( 3) 666666  
dwFrameInterval( 4) 1000000  
dwFrameInterval( 5) 1333333  
dwFrameInterval( 6) 2000000

VideoStreaming Interface Descriptor:

bLength 54  
bDescriptorType 36  
bDescriptorSubtype 7 (FRAME\_MJPEG)  
bFrameIndex 16  
bmCapabilities 0x00  
Still image unsupported  
wWidth 1600  
wHeight 896  
dwMinBitRate 114688000  
dwMaxBitRate 688128000  
dwMaxVideoFrameBufferSize 2867200  
dwDefaultFrameInterval 333333  
bFrameIntervalType 7  
dwFrameInterval( 0) 333333  
dwFrameInterval( 1) 416666  
dwFrameInterval( 2) 500000  
dwFrameInterval( 3) 666666  
dwFrameInterval( 4) 1000000  
dwFrameInterval( 5) 1333333  
dwFrameInterval( 6) 2000000

VideoStreaming Interface Descriptor:

bLength 54  
bDescriptorType 36  
bDescriptorSubtype 7 (FRAME\_MJPEG)  
bFrameIndex 17  
bmCapabilities 0x00  
Still image unsupported  
wWidth 1920  
wHeight 1080  
dwMinBitRate 165888000  
dwMaxBitRate 995328000  
dwMaxVideoFrameBufferSize 4147200  
dwDefaultFrameInterval 333333  
bFrameIntervalType 7  
dwFrameInterval( 0) 333333  
dwFrameInterval( 1) 416666  
dwFrameInterval( 2) 500000  
dwFrameInterval( 3) 666666  
dwFrameInterval( 4) 1000000

dwFrameInterval( 5)        1333333  
 dwFrameInterval( 6)        2000000  
 VideoStreaming Interface Descriptor:  
   bLength                    6  
   bDescriptorType           36  
   bDescriptorSubtype        13 (COLORFORMAT)  
   bColorPrimaries           1 (BT.709,sRGB)  
   bTransferCharacteristics   1 (BT.709)  
   bMatrixCoefficients       4 (SMPTE 170M (BT.601))  
 Interface Descriptor:  
   bLength                    9  
   bDescriptorType           4  
   bInterfaceNumber          1  
   bAlternateSetting          1  
   bNumEndpoints            1  
   bInterfaceClass          14 Video  
   bInterfaceSubClass        2 Video Streaming  
   bInterfaceProtocol        0  
   iInterface                0  
 Endpoint Descriptor:  
   bLength                    7  
   bDescriptorType           5  
   bEndpointAddress          0x81 EP 1 IN  
   bmAttributes              5  
     Transfer Type            Isochronous  
     Synch Type               Asynchronous  
     Usage Type               Data  
   wMaxPacketSize           0x00c0 1x 192 bytes  
   bInterval                1  
 Interface Descriptor:  
   bLength                    9  
   bDescriptorType           4  
   bInterfaceNumber          1  
   bAlternateSetting          2  
   bNumEndpoints            1  
   bInterfaceClass          14 Video  
   bInterfaceSubClass        2 Video Streaming  
   bInterfaceProtocol        0  
   iInterface                0  
 Endpoint Descriptor:  
   bLength                    7  
   bDescriptorType           5  
   bEndpointAddress          0x81 EP 1 IN  
   bmAttributes              5  
     Transfer Type            Isochronous  
     Synch Type               Asynchronous  
     Usage Type               Data  
   wMaxPacketSize           0x0180 1x 384 bytes  
   bInterval                1  
 Interface Descriptor:  
   bLength                    9  
   bDescriptorType           4

bInterfaceNumber	1
bAlternateSetting	3
bNumEndpoints	1
bInterfaceClass	14 Video
bInterfaceSubClass	2 Video Streaming
bInterfaceProtocol	0
iInterface	0

Endpoint Descriptor:

bLength	7
bDescriptorType	5
bEndpointAddress	0x81 EP 1 IN
bmAttributes	5
Transfer Type	Isochronous
Synch Type	Asynchronous
Usage Type	Data
wMaxPacketSize	0x0200 1x 512 bytes
bInterval	1

Interface Descriptor:

bLength	9
bDescriptorType	4
bInterfaceNumber	1
bAlternateSetting	4
bNumEndpoints	1
bInterfaceClass	14 Video
bInterfaceSubClass	2 Video Streaming
bInterfaceProtocol	0
iInterface	0

Endpoint Descriptor:

bLength	7
bDescriptorType	5
bEndpointAddress	0x81 EP 1 IN
bmAttributes	5
Transfer Type	Isochronous
Synch Type	Asynchronous
Usage Type	Data
wMaxPacketSize	0x0280 1x 640 bytes
bInterval	1

Interface Descriptor:

bLength	9
bDescriptorType	4
bInterfaceNumber	1
bAlternateSetting	5
bNumEndpoints	1
bInterfaceClass	14 Video
bInterfaceSubClass	2 Video Streaming
bInterfaceProtocol	0
iInterface	0

Endpoint Descriptor:

bLength	7
bDescriptorType	5
bEndpointAddress	0x81 EP 1 IN
bmAttributes	5

Transfer Type	Isochronous
Synch Type	Asynchronous
Usage Type	Data
wMaxPacketSize	0x0320 1x 800 bytes
bInterval	1

Interface Descriptor:

bLength	9
bDescriptorType	4
bInterfaceNumber	1
bAlternateSetting	6
bNumEndpoints	1
bInterfaceClass	14 Video
bInterfaceSubClass	2 Video Streaming
bInterfaceProtocol	0
iInterface	0

Endpoint Descriptor:

bLength	7
bDescriptorType	5
bEndpointAddress	0x81 EP 1 IN
bmAttributes	5
Transfer Type	Isochronous
Synch Type	Asynchronous
Usage Type	Data
wMaxPacketSize	0x03b0 1x 944 bytes
bInterval	1

Interface Descriptor:

bLength	9
bDescriptorType	4
bInterfaceNumber	1
bAlternateSetting	7
bNumEndpoints	1
bInterfaceClass	14 Video
bInterfaceSubClass	2 Video Streaming
bInterfaceProtocol	0
iInterface	0

Endpoint Descriptor:

bLength	7
bDescriptorType	5
bEndpointAddress	0x81 EP 1 IN
bmAttributes	5
Transfer Type	Isochronous
Synch Type	Asynchronous
Usage Type	Data
wMaxPacketSize	0x0a80 2x 640 bytes
bInterval	1

Interface Descriptor:

bLength	9
bDescriptorType	4
bInterfaceNumber	1
bAlternateSetting	8
bNumEndpoints	1
bInterfaceClass	14 Video

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bInterfaceSubClass  2 Video Streaming
bInterfaceProtocol  0
iInterface          0
Endpoint Descriptor:
  bLength           7
  bDescriptorType    5
  bEndpointAddress  0x81 EP 1 IN
  bmAttributes       5
    Transfer Type    Isochronous
    Synch Type       Asynchronous
    Usage Type       Data
  wMaxPacketSize    0x0b20 2x 800 bytes
  bInterval         1
Interface Descriptor:
  bLength           9
  bDescriptorType    4
  bInterfaceNumber   1
  bAlternateSetting   9
  bNumEndpoints      1
  bInterfaceClass    14 Video
  bInterfaceSubClass  2 Video Streaming
  bInterfaceProtocol  0
  iInterface         0
Endpoint Descriptor:
  bLength           7
  bDescriptorType    5
  bEndpointAddress  0x81 EP 1 IN
  bmAttributes       5
    Transfer Type    Isochronous
    Synch Type       Asynchronous
    Usage Type       Data
  wMaxPacketSize    0x0be0 2x 992 bytes
  bInterval         1
Interface Descriptor:
  bLength           9
  bDescriptorType    4
  bInterfaceNumber   1
  bAlternateSetting  10
  bNumEndpoints      1
  bInterfaceClass    14 Video
  bInterfaceSubClass  2 Video Streaming
  bInterfaceProtocol  0
  iInterface         0
Endpoint Descriptor:
  bLength           7
  bDescriptorType    5
  bEndpointAddress  0x81 EP 1 IN
  bmAttributes       5
    Transfer Type    Isochronous
    Synch Type       Asynchronous
    Usage Type       Data
  wMaxPacketSize    0x1380 3x 896 bytes

```

```

    bInterval          1
Interface Descriptor:
    bLength            9
    bDescriptorType     4
    bInterfaceNumber    1
    bAlternateSetting    11
    bNumEndpoints       1
    bInterfaceClass     14 Video
    bInterfaceSubClass   2 Video Streaming
    bInterfaceProtocol   0
    iInterface          0
Endpoint Descriptor:
    bLength            7
    bDescriptorType     5
    bEndpointAddress    0x81 EP 1 IN
    bmAttributes        5
        Transfer Type      Isochronous
        Synch Type         Asynchronous
        Usage Type         Data
    wMaxPacketSize      0x13fc 3x 1020 bytes
    bInterval          1
Interface Descriptor:
    bLength            9
    bDescriptorType     4
    bInterfaceNumber    2
    bAlternateSetting    0
    bNumEndpoints       1
    bInterfaceClass     3 Human Interface Device
    bInterfaceSubClass   0 No Subclass
    bInterfaceProtocol   0 None
    iInterface          0
    HID Device Descriptor:
        bLength          9
        bDescriptorType   33
        bcdHID            1.11
        bCountryCode       0 Not supported
        bNumDescriptors    1
        bDescriptorType    34 Report
        wDescriptorLength   34
    Report Descriptors:
        ** UNAVAILABLE **
Endpoint Descriptor:
    bLength            7
    bDescriptorType     5
    bEndpointAddress    0x82 EP 2 IN
    bmAttributes        3
        Transfer Type      Interrupt
        Synch Type         None
        Usage Type         Data
    wMaxPacketSize      0x0002 1x 2 bytes
    bInterval          10

```