

# Native WDM and BroadCast WDM

## Manual of QHYCCD Native WDM Driver and BroadCast WDM Driver

QHYCCD WDM Driver is a standard video streaming driver for QHYCCD cameras. It can be used to connect the camera with the application software which support the wdm driver. There is a lot software support wdm driver, eg. amcap, sharpcap, firecapture, ufocapture, handyavi and any of the video chat software like msn , skype etc. If you want to do video online broadcast you can also connect the video encoder software with QHYCCD camera to do it.

QHYCCD supply two WDM driver. One is the native WDM driver and another is the broadcast wdm driver.

### Native WDM Driver

When use this driver. the host application software can run the camera directly and control the camera directly. But the video streaming can be required only by this host application. It can not transfer to another applications.

### BroadCast WDM Driver

BroadCast WDM Driver is a windows shared video streaming driver. You need to use one host application to connect the camera and control the camera and at the same time the video streaming showing on the this host application can be share to any other of the multiple applications in windows. Currently the host application can be SharpCAP or EZPlanetary. And the application can be any other software which support wdm driver.

### Installations

You can go to the product web page and download both native wdm driver and boardcast wdm driver and install them.



Windows Driver and Software Download		
Camera Driver	<a href="#">Latest Version</a>	<a href="#">Previous Version</a>
Update Check	<a href="#">Latest Version</a>	N/A
SharpCap	<a href="#">Official Download</a>	<a href="#">Mirror Download</a>
SharpCap Patch	<a href="#">Latest Version</a>	<a href="#">Previous Version</a>
EZCAP_QT	<a href="#">Latest Version</a>	<a href="#">Previous Version</a>
ASCOM Capture	<a href="#">Latest Version</a>	<a href="#">Previous Version</a>
ASCOM Guide	<a href="#">Latest Version</a>	<a href="#">Previous Version</a>
ASCOM Platform	<a href="#">Official Website</a>	N/A
NativeWDM Driver	<a href="#">Latest Version</a>	<a href="#">Previous Version</a>
BroadCast Driver	<a href="#">Latest Version</a>	<a href="#">Previous Version</a>
PHD2Guiding	<a href="#">Official Website</a>	N/A
Mac Driver and Software Download		
EZCAP_QT	<a href="#">Latest Version</a>	<a href="#">Previous Version</a>
Driver and Software Cloud Drive Download		
<a href="#">Google Drive</a>		

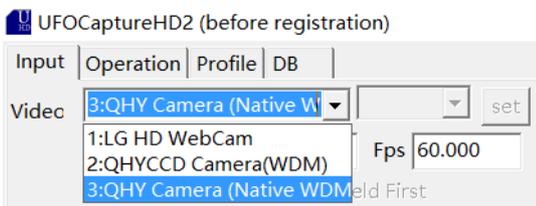
And please use the **update check software** to confirm the current driver/software is the latest version.



Windows Driver and Software Download		
Camera Driver	<a href="#">Latest Version</a>	<a href="#">Previous Version</a>
Update Check	<a href="#">Latest Version</a>	N/A
SharpCap	<a href="#">Official Download</a>	<a href="#">Mirror Download</a>
SharpCap Patch	<a href="#">Latest Version</a>	<a href="#">Previous Version</a>
EZCAP_QT	<a href="#">Latest Version</a>	<a href="#">Previous Version</a>
ASCOM Capture	<a href="#">Latest Version</a>	<a href="#">Previous Version</a>

### Use Native WDM Driver (sample as QHY5III174M) in UFOCapture

1.Run UFOCaptureHD2 and select the QHY Camera Native WDM.



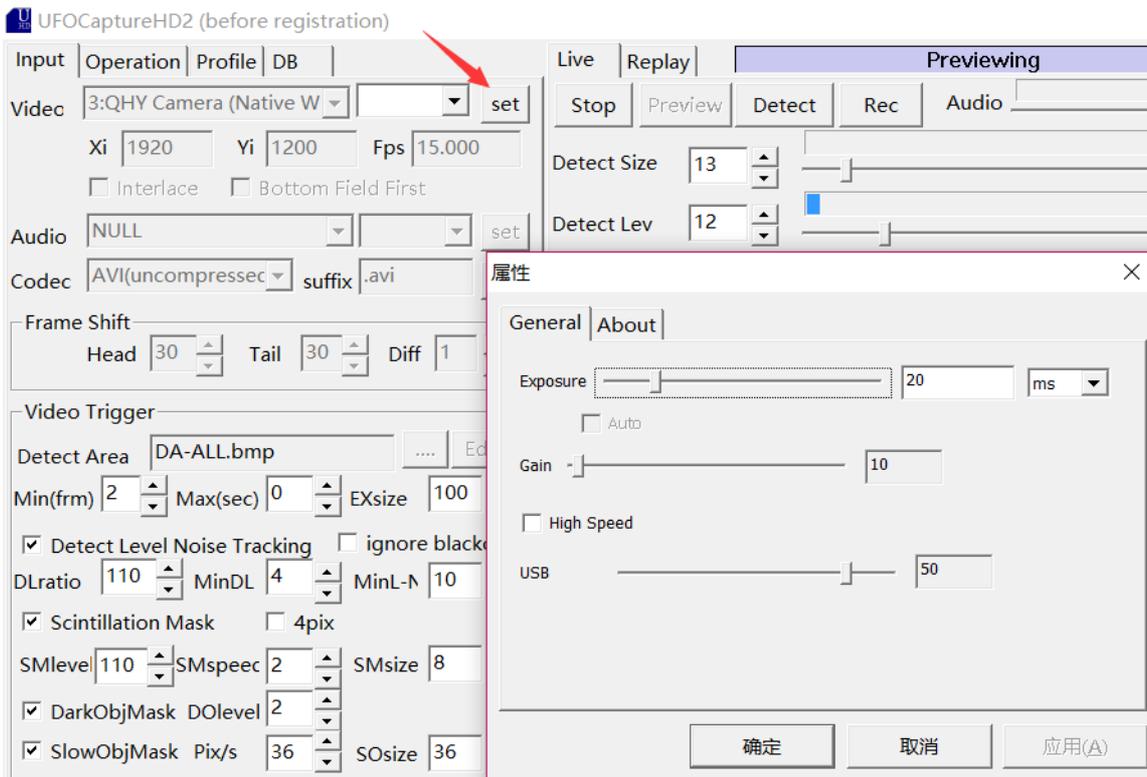
2.The QHY511174 is a progressive camera not interlace camera. So you need to click off the "Interlace" . You can set the FPS, Please note this is only the FPS that the AVI file playback FPS, not the camera's FPS.

You can not set any X, Y size. Only the X,Y size that camera WDM supported can be set.



Please read the camera user manual for the supported resolution in native WDM

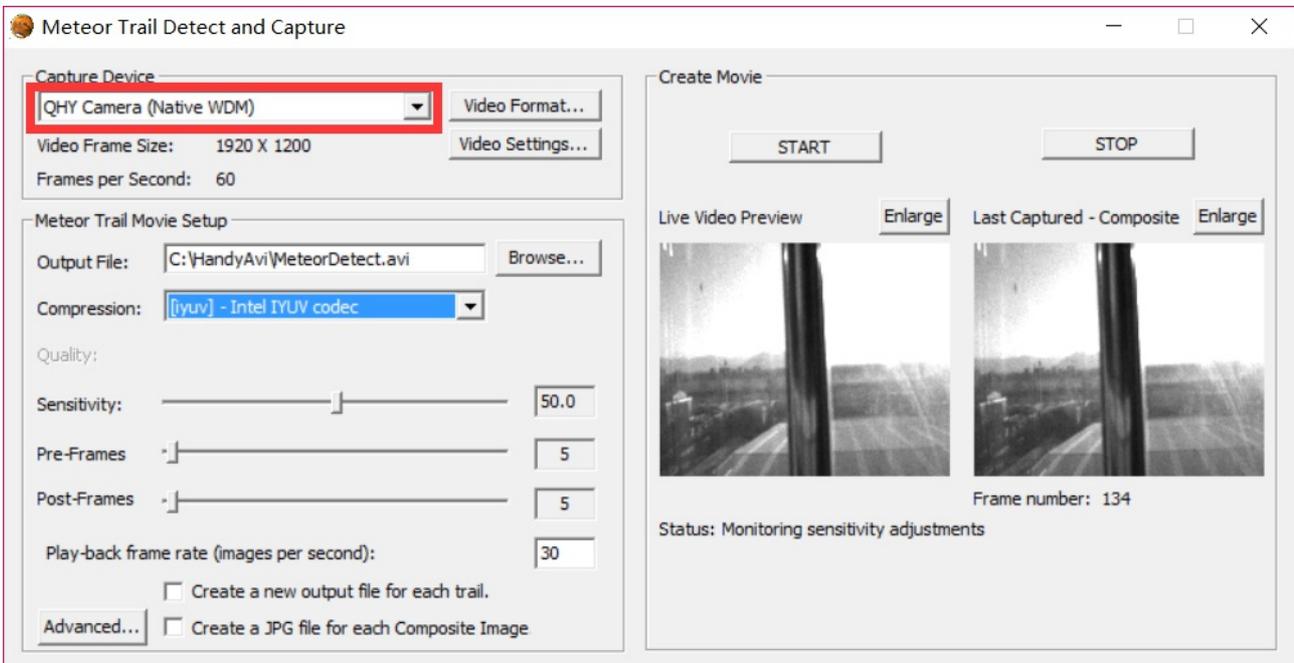
3. You can set the exposure, gain and USB traffic in the "set" button. USB traffic will effect the camera maximum frame rate. When decreasing it, the maximum frame rate can be increased. In some slow computer you may need increase the USB traffic to control the bandwidth otherwise image maybe hang.



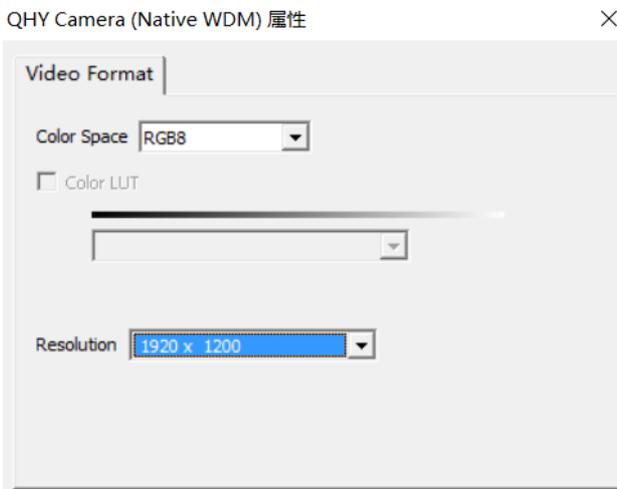
**Note: Currently the UFOCapture only support "YUV" color space mode. The QHYCCD Native WDM support this color space mode. QHYCCD BroadCast does not support this color space mode. So you can only use the QHYCCD Native WDM driver in UFOCapture**

## 2. Use Native WDM in HandyAvi

Run HandyAvi and select QHY Camera(Native WDM driver) .You use "video settings" to set the gain,exposure and USB traffic

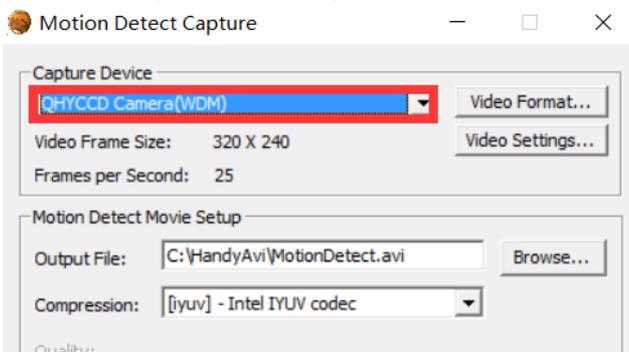


You can also select the resolution in the "video Format"



### 3. Use BroadCast WDM in HandyAvi

Please make sure you have successfully installed the QHYCCD BroadCast WDM driver. Run HandyAvi and select the QHYCCD Camera(WDM)



After select the broadcast driver the image shown in the HandyAVI preview window maybe grey an no image. Now we can start the sharpcap and select "enable user BroadCast" . The video displayed in sharpcap will be broadcast to HandyAvi. You can control the gain, exposure and other parameter in SharpCAP.

Motion Detect Capture

Capture Device  
QHYCCD Camera(WDM) Video Format...  
Video Frame Size: 352 X 240 Video Settings...  
Frames per Second: 25

Motion Detect Movie Setup  
Output File: C:\HandyAvi\MotionDetect.avi Browse...  
Compression: [iyuv] - Intel IYUV codec  
Quality:  
Sensitivity: 50.0  
Additional frames to capture after motion has stopped: 0  
Play-back frame rate (images per second): 30  
Advanced... EMail... START STOP

Live Video Preview Enlarge Adjust Sensitivity Enlarge



Frame number: 604  
Status: Monitoring sensitivity adjustments

SharpCap - QHY5III174M - C:\Users\Qiu\Desktop\SharpCap Captures

文件(F) 摄像头(C) 选项(O) 拍摄 Tools Scripting 帮助(H)

开始拍摄(S) Quick Capture 停止拍摄(T) 暂停 抓图 Live Stack 目标名字:

Camera Control Panel

Capture Profiles

Capture Format and Area  
Colour Space: MONO8  
Capture Area: 1920x1200  
Binning: 1x1  
Output Format: AVI fil... Auto

Camera Controls  
Exposure: 20.0 ms LX Mode  
Quick Picks: Auto  
Gain: 0  
Frame Rate Limit: Maximum  
Amp Noise Reduction: On Auto  
Offset: 0  
USB Traffic: 50  
Enable Live Broadcast: On



Previewing : 2301 frames (0 dropped) in 0:04:46 at 8.0 fps (currently at 8.4 fps)