

Mantis Elite-Cam AMCap image capture guide

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The following guide has been written in order to provide guidance in getting the best possible image quality from a Mantis Elite-Cam. Some components, such as solder joints or machined parts can be highly reflective, so can be difficult subjects to capture.

Change the setting within the AMCap software, as follows;

Go to **Options** > **Video Capture Filter** on the AMCap interface and set the slider bars as follows.

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Laconauto de la constante de la				Auto
Brightn	ess	0	6	
Contr	ast —)	3	
}	lue I)			
Satura	tion ——	0	7	
Sharpn	ess	0	8	
Gam	ma 0-		100	
White Bala	nce —	0	5513	
Backlight Co	mp ()		0	
G	Gain ()	5	32	
ColorE	inable 🗌	PowerLine Frequency	50 Hz	-
		(Anti Flicker)		
		Default		

		-	Auto
Zoom	0		
Focus	0		
Exposure		-8	
Aperture (Tric)	0		Ì
Pan	0		Ī
Tilt	0		
Roll	0		Ì
Low Ligh Compensation	Default		

The settings above are subject dependent, but are good for most scenarios. The most important settings are *Exposure*, *Contrast*, *Gamma* and *Gain* so ensure these are set as above.

Also, to get the best out of the camera set the image capture resolution as high as possible. You can set this independently from live resolution so that the live image feed is still smooth. Set image capture by selecting **Options** > **Still Capture Pin** and selecting the max resolution (1280 x 1024), as below left;

Dutput Size:	
640 * 480	-
160 * 120	
176 * 144	
352 * 288	
640 * 480	
800 * 600	el
1024 * 768	
1280 * 800	-
1280 * 1024	1

tream Format		
Video Format		Compression
Video Standard:	None	
Frame Rate:	30.000	I Frame Interval:
Flip Horizontal:	Snap Shot	P Frame Interval:
Color Space / Comp	ression:	
YUY2 🔻		
Output Size:		Quality:
640 x 480 🔻		0
1280 x 10	24 (default)	
160 x 120		
176 x 144		Cancel Apply
320 x 240 352 x 288 640 x 480 800 x 600		
1024 x 76	8	
1280 x 800		
1280 x 960		

To ensure the live feed remains smooth set the video resolution by selecting **Options** > **Video Capture Pin** and set the resolution to 640×480 as above right.