

## **Defining Instruments and Calibrating Images** (Instruments with Fixed Magnification Settings)

Run **Second Opinion**<sup>TM</sup> Professional and open up the Sample Patient folder. Next **Click** the **System** menu choice, then **Preferences**, lastly **Click** the **Instruments** tab. Now **Click** the **Add** button located within the **Preferences** dialog box.

Preferences			? 🛛		
Images Communication	Custo Security	m Forms   Site Information is computer:	Reports Instruments		
Instrument t	4agnifications	Default	Add Remove Properties Make Current		
Default measurement unit: mm HINT: To calibrate an instrument, capture an image using that instrument, open it in the Image Viewer (if installed), and calibrate it there.					
		Close C	ancel Apply		

Type in the appropriate values for the Scope with fixed magnifications and Click OK.

Instrument Prope	rties 🔹 💽 🔀		
Name: Type of instrument:	Colposcope Video device		
Magnification/zoom settings No measurements on images are possible Instrument has continuous variable magnifications/zoom settings Instrument has fixed magnification/zoom settings: List of settings			
Default setting	7.5 OK Cancel		



The next step is to open an image which contains something of known distance, like a picture of a ruler. Note: The best way to get an image of this type is to simply take a picture of a ruler noting the magnification level of the video device when capturing the picture. Once the image is open, **Click** the **Tools** menu then **Click Calibrate Measuring Tools**.

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	File Co	mmunication Edit	Tools Image Window Help	
	۵ 🏷	Image: A state of the state	Color Font Line Thickness	0
ľ	$\mathbb{R}$	Ruler.jpg (100%)		
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Now position the caliper tool on the ruler and by clicking and holding down the left mouse button down draw a line down any known distance on the image and then type that distance in the dialog box. Now **Choose** the appropriate **Instrument**, **Click Image was captured using an instrument** with magnification and choose the appropriate magnification value. Lastly **Click Use these** settings for this and all new images. Note: the longer the line the more accurate the calibration.

	Calibrate Measuring Tools		
	Enter length in mm:		
	Instrument used to acquire image:		
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(	Lens Setting <ul> <li>Image was captured using this instrument magnification:</li> <li>7.5</li> <li>Instrument magnification is not known</li> </ul> <ul> <li>Instrument magnification is not known</li> <li>Use these settings for this and all new images</li> <li>OK</li> <li>Cancel</li> </ul>		

Note: There is no need to calibrate each different scope magnification level; once a magnification level is calibrated each additional magnification level is calculated by the program.



Once an image has been calibrate the Measuring Line and Measuring Polygon tools become enabled.





To have the system automatically associates the appropriate calibration settings to any new images, make sure you choose the Instrument and Magnification level when saving.

🕅 Document Information 🛛 🛛 🔀					
Image Id: 188387E097A Session	n: 20100408				
Description: Ruler Picture #2					
Source/Instrument: Colposcope	on/Calibration 7.5 • Open in Viewer				
- Notes:					
Keywords:					
Apply this information to:					
C Only this image/clip					
C All already captured images/clips only					
All captured and future images/clips during this session					
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