Feb 09, 13 15:00indiserver_sx_ccd.HOWTOPage 1	/2	Feb 09, 13 15:00indiserver_sx_ccd.HOWTOPage 2/2
How to use indiserver and tools from xephem to operate an SXV-H9 CCD camera to acquire images, under Linux (Ubuntu).		After a while a FITS image will appear in the directory you issued this command in. The file name has spaces in it, though.
Version 1. based on my own experiments and advice from Peter Polakovic. Thanks!		3) Scripts ========
1) Install indiserver.		The above is somewhat cumbersome - all those terminal windows, so I have tried to group items into scripts. This is experimental so far
Use these instructions, lifted from http://www.indilib.org/download.html		The first script is for starting things up.
To install libindi directly from the PPA:		"indi.first" script:
sudo add-apt-repository ppa:mutlaqja/ppa		# start the indiserver
Then update APT's package information by running		indiserver -vv -p 7264 indi_sx_ccd &
sudo apt-get update		# set the connection ON
You can now install libindi by typing:		sleep 2
sudo apt-get install libindi0		Indr_getprop -p /204 «
To install 3rd party drivers, type:		(if this does not show you connection=ON you may have to put some more
sudo apt-get install indi-driver_name		settle. Experiment. Make the above script executable with
For example, to install StarLight Xpress drivers:		chmod +x indi.first
sudo apt-get install indi-sx		The second script is used to take images:
1b) make sure 'bc' is installed.		"indi.takeimage" script:
2) Using indiserver - one line at the time		<pre># set a large timeout indi_getprop -p 7264 -t 30 & # take an increase</pre>
Connect the SX camera to a USB port.		<pre># take an image indi_setprop -p 7264 "SX CCD SXVR-H9.CCD_EXPOSURE.CCD_EXPOSURE_VALUE="\$1</pre>
a) start the indiserver on some port e.g. 7264 like this		# wait a while sleep 'echo "6+"\$1 bc'
indiserver -vv -p 7264 indi_sx_ccd &		# first number in above sum may have to be adjusted up according to speed of PC # rename image
b) set the connection ON		mv SX (CCD (SXVR-H9.CCDI.CCDI.Fits \$2.Fits
indi_setprop -p 7264 "SX CCD SXVR-H9.CONNECTION.CONNECT=On"		you want. Make the script executable and use it like this
c) in another terminal window see how the connection is doing		indi.takeimage 1.2 Mars_Image12
indi_getprop -p 7264		and you should get a FITS image called Mars_Image12.fits
You should see the connection being ON near the top.		Any comments, improvements and suggestions are welcome.
d) set the timeout to something large		Peter Thejll
indi_getprop -p 7264 -t 30		February 9 2013
e) In YET another window take an image		
indi_setprop -p 7264 "SX CCD SXVR-H9.CCD_EXPOSURE.CCD_EXPOSURE_VALUE=1.2"		
for instance, to get a 1.2 s exposure.		