VSRT MEMO #055 MASSACHUSETTS INSTITUTE OF TECHNOLOGY HAYSTACK OBSERVATORY WESTFORD, MASSACHUSETTS 01886

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To:VSRT GroupFrom:Alan E.E. RogersSubject:Alternate USB 2.0 frame grabber

The USB 2.0 frame grabber is used to digitize the output from the square law detector (see memos 1, 4, 16). The original frame grabber from CompUSA (part #SKU318714) was based on the Empia 2820 USB chip. This chip and the Philips SAA7113 have been "reverse engineered" by the open source community so it was possible to use the frame grabber for a different application. Unfortunately many of the newer frame grabbers use a different chip whose internal functions (register assignments etc.) are undocumented. Recently I found a newer frame grabber (GrabBee X+ USB 2.0 audio/video grabber) which is still available from various web based vendors. However, to use this grabber the icasteCommUSB.inf file (located in directory where you placed the downloaded the srt/vsrt software) needed to be edited and ,USB\VID_EB1A&PID_2821 needs to be added to the line ending in USB\VID_EB1A&PID_2820

We will look for other frame grabbers with compatible chips and add the ID codes in the icasteCommUSB.inf file in future releases of the download from the haystack website.

Note: Do not load the windows software which comes on the CD with a frame grabber as the VSRT uses a USB driver from icaste.com and you will need to force windows to relinquish the driver on the CD.