scib

This syntax is specific to Sprynt systems, using the SCIB as the image grabber

keys:	**mode**	*'<text>'*	name of SCIB mode to load in
	rdr,gdr,bdr		specify the red, green or blue channel A/D convertor upper digitised voltages
	rcg,gcg,bcg		select red, green or blue channel gains
	roff,goff,boff		set red, green or blue channel offset voltages
	vi		select video input for green channnel
	sync		select sync source
	hue, sat		set Spectra hue or saturation
	cvi		select Spectra composite video input
	repeat, exposure		set MIFB/EMIFB exposure repeat rate count or period count
options:	**enquire**		set variable **acamera**(2) and **abppixel** to the dimensions of and the number of bytes per pixel of current SCIB mode. When the number of bytes per pixel is 2 set variable **ad16as8src** to the value of d16as8src for the current SCIB mode

The **scib** command allows you to control the SCIB board interactively.

Examples

```
scib mode 'mode monoccir'
```

This command loads mode 'mode monoccir' as the current SCIB mode.

```
scib gdr 128
```

This command selects upper digitised voltage to128 for the green channel. This setting is appropriate for monochrome cameras with 0.7 V.

```
scib cvi 0
```

If the Spectra Colour Decoder is configured for remote control then Spectra video input 1 is selected.

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Signal descriptions:

Analog composite	0.3V pk–pk composite with video (active low)
High level analog	2–4V pk–pk active low
TTL	0–5V logic signal

Connectors:

SK1 is the Video Connector (9–way D–type socket on the end plate)
SK2 is the Facilities connector (25–way d_type socket on the end plate)
PL4 is the Auxiliary Video Timing Connector (20 way ribbon cable plug on the PCB)

TTL sync option

TTLCHSYNC\ is an internal signal whose source and polarity is selected by the parameter **vtg_cfg** in the scibmode file. The function of this parameter is described in the summary of the C library function scib_cfg_vtg(). For more detail consult the the 'Sprynt Colour Input Board Users Guide'.

The key **vi** is used to select which is used as the green (monochrome) input.

When a Spectra Colour Decoder , which has two composite video inputs and an S–Video input, is used and is under remote control, the input board can provide power for it and remotely control which video input is selected using key **cvi.** Keys **hue** and **sat** can be used for the hue (NTSC only) and saturation adjustment. These keys can also be used to control other external equipment if Spectra is not being used or is not under remote control.

The (Extended) Megaplus Interface Board can be used to interface between the Videk Megaplus camera and the Sprynt input board. Keys **repeat** and **exposure** can then be used to set repeat rate and exposure period counts for integrating or sequence capture.

At the start of each semper session, a default scib mode is read from the configuration file 'sprynt.cfg' and loaded accordingly. During a semper session, different scib modes can be load by **scib** command with the **mode** key. A mode loaded must have its description in the SCIB mode file scibmode. Failure to load a scib mode will prevent all further access to SCIB until a mode is successfully loaded.

Notes

Whenever a scib mode is loaded all the parameters(gains and offsets, etc.) are set to the default values specified in the scibmode file. A **scib** command with other keys over these settings temporarily. It is recommended that you put a suitable mode set for each camera type you use frequently in the scibmode file. Please read Appendix A of 'Sprynt Colour Input Board User's Guide' to get a general idea of how to generate modes for analogue and digital cameras.

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defaults and Ranges

keys/options	defaults	range
rdr, gdr, bdr	*none*	integer in range 0 to 255
rcg, gcg, bcg	*none*	integer in range 0 to 7
roff, goff, boff	*none*	integer in range 0 to 255
vi	*none*	integer in range 0 to 1
sync	*none*	integer in range 0 to 7
hue, sat	*none*	integer in range 0 to 255
cvi	*none*	integer in range 0 to 3
repeat	*none*	integer in range 2 to 32767
exposure	*none*	integer in range 1 to 32767