SCART Connections

The information contained in the following pages is relevant to all the UEC Satellite Receiver/Decoders.

TV SCART Pin Connections

The following tables identify the various pin functions associated with the TV SCART.

TV SCART CVBS Video

PIN No	FUNCTION
19	Composite Video Output
17	Composite Video Output return (ground)

TV SCART RGB Video

PIN No	FUNCTION
15	Red component video output
13	Red component video return (ground)
11	Green component video output
9	Green component video return
7	Blue component video output
5	Blue component video return

TV SCART Audio

PIN No	FUNCTION
3	Audio output (left) Mono, Left Stereo channel
1	Audio output (right) Mono, Right Stereo channel
4	Audio common return (ground)

TV SCART Control Signals

PIN No	FUNCTION
8	0 V: DSD Standby mode
	6 V: Aspect ratio 16:9
	12 V: Aspect ratio 4:3
16	0 V: CVBS mode
	1-3 V: RGB mode
14	Return (ground)

VCR SCART Pin Connections

The following tables identify the various pin functions associated with the TV SCART.

VCR SCART CVBS Video

PIN No	FUNCTION
19	Composite video output
17	Composite video output return (ground)
20	Composite video input
18	Composite video input return (ground)

VCR SCART RGB Video

PIN No	FUNCTION
15	S-video chrominance I/O
13	S-video chromonance return (ground)

VCR SCART Audio

PIN No	FUNCTION
3	Audio output (left) Mono, Left Stereo channel
1	Audio output (right) Mono, Right Stereo channel
6	Audio input (left) Mono, Left Stereo channel
2	Audio input (right) Mono, Right Stereo channel
4	Audio common return (ground)

VCR SCART Control Signals

PIN No	FUNCTION
8	0 V: DSD Standby mode
	6 V: Aspect ratio 16:9
	12 V: Aspect ratio 4:3
16	Not used
14	Return (ground)

AUX SCART Pin Connections

The following tables identify the various pin functions associated with the AUX SCART.

AUX SCART CVBS Video

PIN No	FUNCTION
19	Composite Video Output
17	Composite Video Output return (ground)

AUX SCART RGB Video

PIN No	FUNCTION
15	Red component video output
13	Red component video return (ground)
11	Green component video output
9	Green component video return
7	Blue component video output
5	Blue component video return

AUX SCART Audio

PIN No	FUNCTION
3	Audio output (left) Mono, Left Stereo channel
1	Audio output (right) Mono, Right Stereo channel
6	Audio input (left) Mono, Left Stereo channel
2	Audio input (right) Mono, Right Stereo channel
4	Audio common return (ground)

AUX SCART Control Signals

PIN No	FUNCTION
8	0 V: DSD Standby mode
	6 V: Aspect ratio 16:9
	12 V: Aspect ratio 4:3
16	0 V: CVBS mode
	1-3 V: RGB mode
14	Return (ground)

Fast Blanking Operation (pin 16 on SCART)

The fast blanking signal instructs the TV to select either external CVBS information or external RGB information. This is used to impose an on screen display (OSD) presentation (normally RGB) upon a CVBS background. This function is used when using the UHF selector on the RCU.

Fast blanking information has the same nominal phase as the RGB and CVBS signal, and is defined as follows on the SCART connector:

CVBS mode:	SCART pin 16 voltage = 0 to 0,4 V (low)
RGB mode:	SCART pin 16 voltage = 1 to 3 V (high)

Normally the OSD is generated within the MPEG 2 decoder, but the encoder can superimpose OSD (RGB) on top of a CVBS signal emanating from VIN6. The encoder is synchronised to the CVBS signal.

The two fast blanking inputs are associated with the auxiliary RGB/CVBS inputs and the other associated with the Digital Encoder input. These are selected by I^2C.

Function Switch (FNC) Operation

The function switch facility reads the status of the SCART function pin 8 from the VCR and AUX inputs (IC pins 5,7). The output function pins FNC_TVA and FNC_TVB are controlled from the IC using a write instruction. The circuit associated with these functions allows the signals to instruct the TV to switch between display modes.

RCU UHF Control Switching and Second Decoder Operations

Pressing UHF on the RCU with a second satellite decoder connected to the AUX connector and operating, toggles the video input source in the sequence VCR, AU1, TV and IRD. If AU1 is selected, the satellite picture is routed to the TV and VCR from the second decoder.

The AUX SCART connector has audio, video (RGB) and composite video input connections that can be used to connect a second analogue or digital satellite decoder to the UEC decoder. If a second decoder is connected, the signals are automatically routed internally to the TV SCART connector.

If the second decoder is switched ON, the AUX picture is routed to the TV SCART and VCR SCART. If the UHF override button is pressed on the RCU (**tv** displayed on the DSD display), the satellite picture is routed to the TV, VCR and AUX SCART, the function switching signal on pin 8 of the TV SCART being forced low (irrespective of menu setting).

If the UHF button is pressed again (IRD displayed), the satellite picture is still routed to the TV, VCR and AUX SCART, but is now menu dependent. The fast blanking pin (pin 16) of the TV SCART remains menu dependent.

Pressing the UHF button again (VCR displayed) routes the VCR picture to the TV and AUX SCARTs, and the function switching pin (pin 16) of the TV SCART assumes the same state as that on pin 8 of the VCR SCART. The fast blanking pin (pin 16) of the TV SCART is forced low, the VCR playback being only CVBS and not RGB.

Pressing the UHF button again (AU1 displayed on the front panel), routes the AUX picture to the TV and VCR SCART, the function switching pin (pin 8) of the TV SCART assuming the same state as that on pin 8 of the AUX SCART. The fast blanking pin (pin 16) of the TV SCART also assumes the same state as that on pin 16 of the AUX SCART.

If the UHF button is pressed again, the DSD goes back into the terrestrial mode (TV) and the process repeats.

NOTE: **When using a single dish installation, with both decoders switched on, the first decoder always controls the polarity of the LNB. A second dish installation or moveable dish is required to align to another satellite.**

For single dish operation, to view the second decoder, the conditions of operation will be:

For same polarity signals, both decoders can be switched on.

For different polarity signals, the first decoder must be switched to standby.