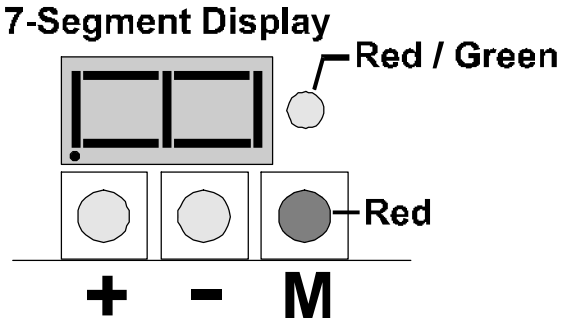
CD12

COMPOSITE TO SERIAL DIGITAL CONVERTER

When used in the composite mode (PAL or NTSC), the input signal is fed via a CD 12 module. Connect the analogue composite feed to the **CVBS/IN** BNC. If the **LOOP** BNC is not used, it must be terminated (75Ω). The **SER 1 OUT** and **SER 2 OUT** both carry the outgoing SDI signal.

The adjustments on this module are shown below.



Green → you must select the parameter you want to adjust. +/- buttons can be used to scroll through parameters.

Red → a parameter has been selected. By pressing +/- buttons, you change the value of this parameter.

Display	Parameter	Default	Range
Y	Y (luminance) component amplitude	(*)	0 - F
U	U component amplitude	(*)	0 - F
u	V component amplitude	(*)	0 - F
O	luminance Offset	0	0 - F
I	tint (hue)	0	0 - F
H	Horizontal phase	5	0 - 9
t	test line mode	Y	Y (Y only) d (data) b (blank) S (Simple decoder)
C	Decoder Configuration	A	A (Adaptative) C (Comb always) S (Simple) n (notch)
S	Standard color		6 (PAL) 5 (NTSC) 4 (NTSC Japan)
G	Corring	0	0 (no) 1 (1 LSB) 2 3 4 (4 LSB)
d	DC restore	1	0 (no digital DC restore) 1 (digital DC restore)
E	Pedestal level	(*)	0 - F

P	Program parameter		

(*) The value of these parameters depends on the selected standard (PAL, NTSC, NTSC Japan).

Buttons + & - : These are used to go UP & DOWN the MENU, when an adjustment mode is chosen, they are used to make the desired adjustments
Button M : This selects / de-selects the chosen menu items.

To store the value of parameters :

Key	[M]	[+]	[+]	[+]	
LED Display	P	1	2	3	Y

To recall previous value of parameters :

Key	[M]	[-]	[-]	
LED Display	P	1	0	Y

Test Line Mode (VBI processing mode) :

Y → C is blanked, Y is digitised unprocessed except set-up processing
d → C is blanked, Y is digitised unprocessed and set-up is not removed
b → Y and C are blanked
S → Simple decoder mode

Standard Color :

If a new standard is selected inside S menu, then all parameters (Y, U, V, O, H, I, t, G, d) are restored to their default value.

Corring :

All small Y variations (adjustable from 1 LSB to 4 LSB) are ignored.

DC restore :

0 → no digital DC restore, P2 (potentiometer in the central part of the board) or the Pedestal Level function can be used to adjust black level. This is *only used with low quality input signal*.
1 → black level is digitally restored. This is the usual operation mode.

Example of adjustment : to adjust input luminance level

1/ With the LED green, use + / - buttons to set menu to **Y**.
2/ Select luminance adjustment mode by pressing button **M**. the LED turns red.
3/ Adjust **luminance** by pressing + / - buttons
4/ When adjustment is correct, **deselect** adjustment mode by pressing **M**. The LED is green again.

Further adjustments can be made as necessary ; when all adjustments have been made and the LED is green, settings can be stored by choosing **P**. on the 7-segment display by pressing +/- buttons. Press the button M to select this mode (LED turns red), button + should then be pressed **3 times**. The 7-segment display should then read **Y**.