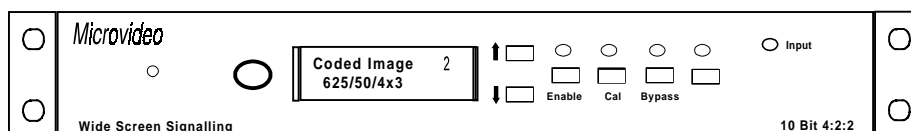


Video Index Processor for Aspect Ratio Signalling

- **Records VI**
- **Supports AFD**
- **Frame Accurate**
- **LCD Display**



Video Index is a technique used to encode program and picture related source information in conjunction with a component digital video signal. The data is encoded in bit 2 of the chrominance signal (assuming a 10 bit signal where bit 0 is the lsb and bit 9 is the msb), on lines 11 and 324 for a 625 line signal, or lines 14 and 277 for a 525 line signal. The formatting for the data is defined by SMPTE RP186 and includes the aspect ratio of the 'coded' picture, this being 16:9 or 4:3.

UK broadcasters have also utilised some of the unused bits in the SMPTE RP186 standard to convey Active Format Descriptor (AFD*). This AFD data will indicate how the picture should be treated / displayed, by equipment such as aspect ratio converters and set top boxes.

The coding for the AFD is given as -

0 0 0	Active region same as coded frame (source material)
0 0 1	4:3
0 1 0	16:9
0 1 1	14:9
1 0 0	not used - reserved for future use
1 0 1	4:3 with shoot and protect 14:9 centre
1 1 0	16:9 with shoot and protect 14:9 centre
1 1 1	16:9 with shoot and protect 4:3 centre

Product Description

To enable Vi (AR and AFD) coding to be read on input, translated to another Vi Code using a look up table. The resultant Vi is then inserted back into the same field. This ensures that the coding remains frame accurate. The look up table is user programmable from the front panel. GPI inputs also allow the output code to be defined by an automation system. Applications include, recoding to support different set top box platforms and carrying hidden GPI information.

Video Input	SDV(270Mb/s) as per SMPTE259M
Video Output	2 x SDV(270Mb/s) reclocked outputs (Program has relay bypass)
Data Interface	Coded (source) image and AFD settings are displayed on an LCD Video Index Data can be set from front panel or by the GPI's. An Alarm GPI Output indicates power loss, no input or invalid Vi code. Optional RS232 and RS422 interface (contact Microvideo).
Physical	The product is supplied in 1U rack mounting frame with integral psu.
Product Code	VIG-PROC Video Index Processor, with front panel control
Related Products :	VIG-DEC Video Index Decoder WSS-VIG Line 23 reader with VI output