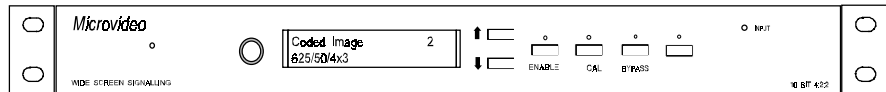


# Microvideo

## Wide Screen (Line 23) to Video Index Converter

- Supports AFD
- GPI control
- LCD Display
- RS232 / 422



In a broadcast system which is using both standard (4:3) and wide screen (16:9) format pictures it is useful to label the video signal with aspect ratio information. This allows equipment in the transmission chain to know what the picture format is. There are currently two different signals used by UK broadcasters; Video Index (line 11) and Wide Screen Signalling (line 23). We supply Generators and Decoders for both types of signalling. This datasheet covers only the line 23 to Video Index Converter

### Line 23 data:

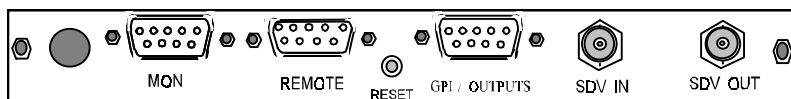
The waveform used is of the same specification as PAL Plus but the 14 bits of data are interpreted differently. They are used to convey the source aspect ratio (4:3 or 16:9) and the active format descriptor (AFD) that is required for digital terrestrial systems. The advantage of using the line 23 waveform is that it will pass through an analogue system and be decoded either in the analogue or digital domain. Video Index may only be used in the digital domain. The Microvideo Decoder is a digital decoder for line 23 carried in SDV.

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	not used - reserved for future use

**Video Input** SDV(270Mb/s) as per SMPTE259M

**Video Output** 1 x SDV(270Mb/s) output (power-fail relay protected)



**Data Interface** Incoming WSS data, Coded image and AFD, can be displayed on the LCD. Out going video index can be defined by either incoming WSS data or GPI inputs. The GPIs are TTL level inputs, active low, on 9 way D type. Standard Configuration :  
GPI.1 Use WSS to define VI (1) or Use GPI to define VI (0)  
GPI.2 Take input to latch the AFD - GPI's  
GPI.3,GPI.4,GPI.5 - Sets the AFD information inserted.  
(RS232 and RS422 interfaces available as an option. Contact Microvideo)

**Physical** The product is supplied in 1U rack mounting frame with integral psu.

**Product Code** WSS-VIG