

GTH ELECTRONICS

Simple Aspect Ratio Conversion using ACE Convertor

Introduction

Unlike Standards Conversion the BYPASS button will cancel all Aspect Ratio Conversion, so in this mode you must operate the ACE with BYPASS OUT. Video adjustments WILL therefore operate so please check you are happy with video settings and adjust if required. "Standards" buttons must also be OUT. Output video standard will match input standard.

Initial Setup

Inputs and Outputs are clearly labelled on the back. Switch MUST be IN for Composite Input. Composite and "S" video outputs and RGB or YUV on SCART are available simultaneously. Audio is unity gain but you don't need to put it through the ACE unless you need the Fade.

Start With:

Buttons: ALL OUT

Knobs: ALL with Pointer at TOP, Except "DIGITISE" to be set Fully Anticlockwise. Connect Video Input and a suitable Monitor. Press IN POWER and check video throughput.

ARC Setting:

Release POWER. Press IN "OUTPUT TYPE" and Hold it while Pressing IN POWER again. Watch the picture and/or count seconds. After 2.5 Seconds the Image Height will drop to 3/4. For Letterboxing release "OUTPUT TYPE" at this point.

For Pillarboxing continue to hold "OUTPUT TYPE" and after 5 seconds the height will go back up and width will drop to 3/4 instead. You can then release "OUTPUT TYPE".

Zoom Control

DIGITISE can now be used as a ZOOM control. Anticlockwise you will see the whole image. There are 7 equal steps of Zoom as you rotate this control Clockwise:

The Third Step Up gives 14:9 Letterbox or Pillarbox; some cropping and reduced black bars. (This mode is used by the UK Terrestrial channels as a compromise on widescreen material.)

The Sixth Step Up has more severe cropping but no black bars so is full height or full width. Intermediate steps give intermediate results and the Seventh Step Up gives even more zoom.

Repeat Use (i.e. Next Day After Power Down)

Release POWER. Press IN and Hold "OUTPUT TYPE" while Pressing IN POWER again. Watch the picture and/or count seconds. After 2.5 Seconds the image will be letterboxed and after 5 seconds the image will be pillarboxed (see above) but if you have selected some Zoom then you will need to watch and check the image shape rather than the actual height and width.

Test Patterns

You can select Colour Bars and Red/Blue Purity screens with the TEST SELECT button: This cycles through 4 options: Normal Video / Colour Bars / Blue Screen / Red Screen. Test Patterns are Full Screen regardless of Aspect Ratio Convert mode which is unaffected.

NOTE:

For permanent unattended use in letterbox mode we recommend Special Version ZW which will always power-up in this mode although all the other modes are still available if required.