

GTH ELECTRONICS

ACE Convertor Special Version XR

Option "R": Widescreen Signalling and Copy Protection

Option "R" has simplified 4:3 or 16:9 widescreen signalling controlled by the AUDIO button, so widescreen TVs will switch automatically to the correct mode, and CGMS Copy Protection controlled by the MANUAL button. The audio/video fader is still available using the FADE button but fading is always automatic and audio is always faded with the video. Of course audio can be left unfaded simply by connecting audio directly from source to destination machines and not taking it via the ACE.

The CGMS Copy Protection, when enabled, lets you prevent customers from copying VHS tapes of weddings or special interest videos to DVD or DV. It will thus force your customers to make only poorer VHS copies rather than lossless digital ones. Naturally, CGMS Protection must be turned OFF for any copying you do to digital media!

The 4:3/16:9 widescreen signalling can be used to force widescreen TVs into the correct mode.

The following common modes can be signalled (**Only 625/50 Output, Disabled on 525/60**):

AUDIO / 16:9	MANUAL / PROTECT	WSS & CGMS MODE
OUT	OUT	4:3 Full Screen
OUT	IN	As Above + Copy Protected
IN	OUT	16:9 Full Screen (Anamorphic)
IN	IN	As Above + Copy Protected

Option "X": Horizontal/Vertical Panning on Letterbox/Pillarbox

Option "X" offers Horizontal Panning when using Letterboxing or Vertical Panning when using Pillarboxing. In both cases the panning is proportional to zoom level. So panning is zero with no zoom applied and automatically increases in effect with zoom level so that at it is always possible to pan over the whole source image width or height. This allows control over zoom induced cropping for cases where the main focal point of the image is not in the centre.

Fade is always set to the maximum rate (1 second as standard or 0.5 seconds with "Q" Option).

The Speed/Manual Fade control becomes the Panning control instead:

STATE	FADE/MANUAL KNOB EFFECT
DIGITISE	NONE - NO Panning
ZOOM	NONE - NO Panning
LETTERBOX	Horizontal Panning - Varies with Zoom Level
PILLARBOX	Vertical Panning - Varies with Zoom Level