

GTH ELECTRONICS

ACE Convertor Special Version E

Option "E": Freeze Frame and 3200k Colour Temperature

Option "E" offers a flexible Freeze Frame (Still Frame) facility controlled by the AUDIO button and a Fixed 3200K (indoor / incandescent lighting) White Balance / Colour Temperature setting controlled by the MANUAL button. The automatic fader is still available with variable speed using the FADE button and SPEED control 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.

FREEZE (AUDIO): When Pressed IN this button freezes / holds the last two fields captured. By default these two fields are averaged and the result displayed for both output fields to avoid motion jitter. However use of the INVERT OPTION button gives a choice of display modes: Pressing this button allows you to cycle through the options in order: Both Fields Averaged & Repeated / Both Fields Displayed in sequence as normal / Field 1 Repeated / Field 2 Repeated. This state is remembered until power-down even after Freeze Frame is released and does not affect the normal use of Invert Option so each of these functions can be setup independently. Invert Option function switches between normal use and display mode depending on FREEZE.

PLEASE NOTE: Both fields averaged & repeated shows a static blur where there was motion. Both fields displayed in sequence as normal gives best vertical resolution but any motion during capture will make the image jitter as the two fields will not be the same. Repeating field one or two eliminates jitter and avoids the motion blurring caused by averaging but only uses the data from one input field. The choice is yours and we suggest you simply press this button to select a mode by eye for the best results in your application.

PLEASE ALSO NOTE: Controls which operate on the video input, i.e. Contrast, Brightness, Saturation, Balance/Hue (NTSC in), Video Invert & Vertical Size will not function normally during freeze frame mode so these settings should be adjusted correctly before freezing a frame. Vertical Position, White Balance Correction, Colour Shift, Fade, Test Patterns & Output Type controls all operate normally during freeze frame mode. FREEZE is not cancelled by BYPASS.

3200K (MANUAL): When Pressed IN this button selects a fixed colour correction to convert the normal TV daylight colour temperature of around 5500K to the indoor/incandescent colour temperature of 3200K. White Balance controls are disabled. 3200K is cancelled by BYPASS.