

GTH ELECTRONICS

ACE Converter Special Version OLBM (Up to June 2003)

Option "O": For Noisy Broadcast TV Reception

Amateur TV Reception or ATV Repeater Stations often have to cope with very noisy signals. Optimum performance requires a long time constant in the horizontal phase-locked loop so that the ACE can ignore the effects of noise on the sync pulses. On the other hand the standard ACE has a short time constant which was specially chosen for optimum performance with the relatively clean but often jittery video coming off VCRs which must be tracked accurately.

Secondly, since fading TV signals can result in video level changes it is also useful to be able to use the Automatic Gain Control features of the ACE which are normally disabled for optimum performance in normal video applications.

Option "O" uses the AUDIO button to control the horizontal phase-locked loop time constant (IN for SLOW) and MANUAL button to control the Automatic Gain Control (IN for AGC).

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 and not taking it via the ACE.

Option "L": Colour Standard Lock - Normally ON.

This solves the rather rare inaccurate colour standard detection which can occur when handling some difficult faulty PAL tapes, giving rise to vertical colour bands. This function locks out the automatic colour standard selection on the ACE Converter, so in this mode it will only accept PAL/50/4.43 or NTSC/60/3.58. This function should only be needed when copying from old or damaged tapes, or where there are momentary breaks in the colour which can sometimes fool the automatic standard detection and result in false locking of the Philips video decoder chip. This function also ensures fastest possible recovery of the ACE Converter from colour breaks.

This can be disabled using the normal method for enabling as described in the manual.

Option "B": Output Colour Burst Permanently Enabled

Normally the Colour Burst on the video output of the ACE will be present only if there is a colour burst present on the video input, as per standard practice. However this can prevent you from adding colour, e.g. sepia, to genuine monochrome video which has no colour burst. Please note though that you can always convert colour video to monochrome and then add colour tints without this special version. There are also some other applications where a permanent colour burst might be useful.

Option "B" ensures the colour burst is always ON. The main disadvantage is that a TV monitor on the output of the ACE will then show colour noise when the ACE is fed with a noisy monochrome video input as the TV's colour decoding circuitry will not be turned off.

Option "M": Left/Right Mirror Imaging:

Option "M" uses the INVERT OPTION button to enable a lateral, i.e. Left/Right, inversion of the video image instead of its normal use. In videophone applications if the local camera output is fed to the local monitor this lateral inversion allows the users to see themselves as if seen through a mirror which is the normal way we see ourselves. Other applications include any situation where the camera must view an object or scene through a mirror & must be corrected.