

# GTH ELECTRONICS

## *ACE Convertor Special Version N*

### *Option "N": Switchable Time Constant and Automatic Gain*

Amateur TV Reception or ATV Repeater Stations often have to cope with very noisy signals. Optimum performance here 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 (AGC) features of the ACE which are normally disabled for optimum performance in normal video applications where levels are usually relatively constant.

Option "N" uses the INVERT OPTION button to cycle through 4 combinations of Slow and Fast horizontal time constant plus AGC On and Off. The only disadvantage is that the normal video invert options are lost. However option "N" can be combined with other options using the AUDIO and MANUAL buttons unlike option "O" (but of course not with option "M").

**Control Cycling Order is: Normal (Fast + AGC Off) / Slow + AGC On / Fast + AGC On / Slow + AGC Off. This cycle repeats for ever but control is reset to Normal on Power-Up.**

**Please note** that BYPASS normally cancels the action of the INVERT OPTION button but on this version this action has been disabled since INVERT OPTION no longer operates in a video adjustment mode but now sets operational parameters (i.e. Time Constant and AGC) instead. These parameters, like OUTPUT TYPE settings, need to be fixed and unaffected by BYPASS.