HEDGHOG L
405/819 line standards converter

The Hedghog L can be programmed by using the two rotary encoders, push-button and Display
The following is a brief description of the various menus.

The top line of the display is the parameter the lower line is the parameter's value.
Rotating the left hand knob changes the parameter.
Rotating the right hand knob changes the value.
The value is updated immediately .
Pressing the left hand knob saves the new values to memory.

PRESET NO x
Preset number.
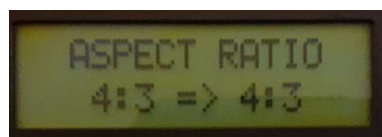There are 10 presets numbered from 1 to 10.
Each preset holds a unique converter setting and a unique modulator setting.
The bottom line is the name given to the preset and can be changed further down the menu.

MODE
Selects the operation mode which can be 405 Lines, 405 Line Test Card, 819 Lines or Modulator
Only.

ASPECT RATIO
Selects the the input and the required output aspect ratios (only available when in 405 line or 405
Line Test Card mode).

EQU PULSE
Turns equalising pulses On/Off (only available when in 405 line mode).

CHANNEL NO.
Selects the System A channel (only available when in 405 line or 405 Line Test Card mode).

CH SYSTEM
Channel system, positive video and AM audio or negative video and FM audio.

VID CAR RF RANGE
Video carrier frequency range of 28.5 to 56.25 MHz, 56.25 to 112.5 MHz, 112.5 to 225 MHz, 225 to 450 MHz or 450 to 900 MHz.

VID CAR FREQ
Video carrier frequency.

VID/AUD SEP
Video audio carrier separation of 4.5, 5.5, 6.0, 6.5 MHz or Variable.
When Variable is selected the audio carrier frequency can be set manually.
Variable can only be selected when channel system is set to positive video and AM audio

AUD CAR RF RANGE
Audio carrier frequency range of 28.5 to 56.25 MHz, 56.25 to 112.5 MHz, 112.5 to 225 MHz, 225 to 450 MHz or 450 to 900 MHz.
Only available when VID/AUD SEP is in variable mode

AUD CAR FREQ
Audio carrier frequency
Only available when VID/AUD SEP is in variable mode

AUDIO GAIN
Audio input gain

SET NAME CHR x
The three photos above show 3 positions of 16 used to set the name of the preset.
In the three photos characters in position 1,2 and 3 are been set.
In each of the photos the cursor is under the character been set.
Rotating the right rotary encoder will change the character above the cursor.

STARTUP PRESET
Sets the preset that will be loaded at startup.

VID:AUD RATIO
Sets the video to audio carrier ratio to 12 or 16 dB.
Only available when AUD CAR RF RANGE is set to 4.5, 5.5, 6.0 or 6.5 MHz.

Default Settings
When the microcontroller is programmed the presets have random settings in them.
The settings can be filled in manually or a set of default settings can be loaded into them.
The default settings can be loaded by pressing both left and right push-buttons and holding them for approximately 2 seconds.