SurroundMonitor 10800

Software V3.0

New:

- Input routing in the surround and 2 channel modes.
  The analog and digital inputs can now be assigned freely to the level indicators and the vectorscope channels. Ref. manual pages 3-7 to 3-12.
- 8 factory presets for different modes as well as 8 memories for customer settings. Further information on page 3-6 of the manual.
- Recall of presets by remote control. This is explained in the manual on page 3-5.
- Optimum operator support by online help function in the menus.

Short instructions for use

As of version 3.0, the SurroundMonitor 10800 offers two main modes:

- display mode
- menu programming mode

After power-on, the unit is in DISPLAY MODE which is the normal operating mode. It is controlled via the buttons on the front panel. If the mode button is pushed for longer than 1 second the unit changes into the MENU PROGRAMMING MODE in which all parameters can be set and stored.

Keyboard functions in display mode:

MODE: Selects the operating mode of the left display.
In 2 channel or 8 channel mode: vectorscope or RTA
In surround mode: 5 channel vectorscope/2 channel vectorscope/RTA
(In surround mode, channels 7/8 may be used to display external signals which may also be connected to the vectorscope.)

SELECT: In 2 or 8 channel mode, this button selects a pair of channels as the input signal for the RTA or the 2 channel vectorscope. The selected input pair is displayed in the upper left of the display. In 2 channel operation, this setting applies also to the peakmeter on the right display.

MEMO: Display of the memory content (level/loudness maximum, overload)

GAIN: Increases the input sensitivity (+20 dB or +40 dB, depending on the selected standard)

RESET: clears the memory

SHIFT: second level of key functions, only used with the RTA.

The menu mode

Push the MODE button longer than 1 second and the main programming menu will be displayed. This main menu includes parameter settings as well as a selection of sub menus:

Menu functions (these cannot be disabled through LOCK):

- selection of the AES state monitor
- recall of a preset
- selection of language for display of the help text

Menu selection of the presets (can be disabled through LOCK):

- preset menu
- remote menu

The help text shown in the individual menus includes explanations on the key functions and the available choices.

Settings in the PRESET and MODE SETUP menus

The PRESET menu and the MODE SETUP sub-menu are the two principal menus used to configure the SurroundMonitor 10800.

The PRESET menu includes the following selections:

- main operating mode of the unit (surround, 2-channel, 8-channel)
- main operating mode of the left display DISPL-LEFT (RTA or vectorscope)

The remaining parameters for the peakmeter, RTA etc. are available through these menus:

- MODE SETUP menu
- DIGITAL ERROR SETUP menu
- RTA SETUP menu
- NUMERIC DISPLAY SETUP menu (numerical display)
- GENERAL menu

The MODE SETUP menu

The MODE SETUP is the most important menu. It includes the following selections:

- surround configuration (2.0, 3/1, 3/2)
- analog and digital input selection
- input routing (assigns the signal inputs to the 8 internal display channels of the SurroundMonitor)
- bargraph on/off,
- labelling
- spot correlator on/off.
- vectorscope settings

The MODE SETUP menu includes three further sub menus:

- PEAKMETER SETUP menu
- VECTORSCOPE SETUP menu (2/8 channel operation only)
- COLOR SETUP menu

This menu is used to program all the usual settings like the display standard, peak hold, OP field, colours etc.

Important settings

Selecting the operating mode (2-channel, 8-channel, or surround)

Push button **MODE** (MENU) > 1 sec.

1. In the main menu, move cursor to **MODIFY PRESET**, push button **NXT**.
2. In **MODE**, select the desired mode using the **NXT** button.
3. Push button **RET** or **ESC** to enter the SAVE menu for saving your selection in one of the 8 USER PRESETS.
4. Push button **RET** or **NXT** in the SAVE menu in order to save your settings in a user preset or push button **ESC** to exit without saving.

Selecting analog or digital

Push button **MODE** (MENU) > 1 sec.

1. In the main menu, move cursor to **MODIFY PRESET**, push button **NXT**.
2. In MODIFY PRESET, select the **MODE SETUP** menu.
3. In MODE SETUP, move the cursor to the **ANA/DIG** field of the channel for which you want to change the domain. Select using the **NXT** button.
4. Push button **RET** or **ESC** to enter the SAVE menu.
   NOTE: in 2 channel operation, the analog/digital selection can only be made for all channels. In surround operation, the channels used for the surround set are programmed to the same domain.
   In 8 channel operation, the 8 channel peakmeter may be split into two groups for analog and digital signals with successive channels belonging to the same group (e.g. channels 1,2,3,4 analog, channels 5,6,7,8 digital).

Configuring track assignments in surround mode

The input routing can be used to adapt the unit very easily to different track assignments. SMPTE/ITU/SSF suggest the following setup:

channel 1: L	channel 3: C	channel 5: SL	channel 7: free
channel 2: R	channel 4: LF	channel 6: SR	channel 8: free

Recalling a preset track assignment

This assignment may be recalled as option SMPTE.TV under LOAD CONFIG in the MODE SETUP menu. The peakmeters are automatically assigned in this order. At the same time, the relevant inputs of the 5 channel vectorscope and the corresponding correlator displays are connected to the correct inputs. In the matrix display mode, this assignment may be modified manually, while the unit makes sure that a ‘left’ channel will always be shown as L in the vectorscope.

The PRESETS U1 - U8 and F1 - F8

As of version 3.0, the SurroundMonitor features eight customer presets and eight fixed factory presets. These presets can be selected using the **USE PRESET** option of the main menu. The user memories can be overwritten at any time.

Saving settings in USER PRESETS U1 - U8

In order to preserve any changes made, they must be saved in a user preset. Pressing the ESC button in any menu immediately displays the SAVE menu with the message “PRESS RET/NXT TO SAVE”. Press button RET or NXT to save your settings in the user memory shown in the STORE TO field. The unit returns to display mode. The designation of the preset may be edited using the PRESET NAME option.

Returning to the display mode without saving

Push the ESC button instead of the RET or NXT button in the SAVE menu. The unit returns to its normal display mode **without** saving any changes made.

One single exception:

In the main menu, the ESC button immediately takes you back to the display mode. This is logical because no changes are possible in the main menu.

Recalling presets

Presets may be recalled via the main menu or by remote control. The remote control interface has 6 control inputs which can be assigned to key functions or presets (selected in the main menu ⇨ remote menu). If the activation of presets has been selected, any of the presets from U1 to U8 or F1 to F8 may be assigned to any of the 6 inputs. This may be done by means of continuous switches or momentary key contacts as well as by positive or negative logic.

Power On Recall

If this option is enabled, the selected preset will always be recalled on power-up of the surround monitor. If POWER ON RECALL is disabled, the unit will power up in the state it was in when it was last switched off.

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