

Model 9580 Post Production Telecine Keyer

Quick Reference Guide

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1.0 Overview

The Evertz 9580 Post Production Keyer system provides the post production and telecine suite with a multi-function keyer that was designed specifically for post production needs. Its flexible design provides you with the tools you need today, configured in a way that allows future expansion and access to additional functions. The Evertz 9580 Post Production Keyer is a fully digital keyer that was designed with a scaleable size kept in mind so it will fit most post applications that can be presented.

The Evertz 9580 Post Production Keyer system features linear keying, side-by-side comparison, letter boxing, wipes, fades and more. The Evertz 9580 Post Production Keyer consists of a one RU frame with front panel control as well as an optional remote control panel. The new Post Production Keyer is an ideal addition to the Evertz's KeyLog Tracker Telecine Logging and Configuration Management Tool.

Features:

- Side-by side comparisons
- Wipes – horizontal, vertical, diagonal left or right
- Adjustable fades and wipes
- Automatic precision letter boxing for 4:3 and 16:9 aspect ratios
- 12 Bit linear keying
- Safe area/safe title markers
- Optional Remote Panel

2.0 Rear Panel Hook Up

- The *SDI A INPUT*, on the rear panel corresponds to the two *SRC A* buttons and two “A” LED’s located to either side of the *Main Display* on the front panel.
- The *SDI B INPUT*, on the rear panel corresponds to the two *SRC B* buttons and two “B” LED’s located to either side of the *Main Display* on the front panel.
- The *SDI C INPUT*, on the rear panel corresponds to the two *SRC C* buttons and two “C” LED’s located to either side of the *Main Display* on the front panel. The *SDI C INPUT* must be present by default. The main board uses this input to derive the output clock and timing. This dependency can be changed through the *Setup* menu.
- The *SDI PROGRAM OUT*, is the main serial digital video, output. There are two BNC connectors which output identical program video in serial component SMPTE 259M (CCIR601).
- The *SDI PREVIEW OUT* is optional and may not be present.
- The *SERIAL REMOTE* is an RS-232 serial interface used for updating the firmware. It is also the interface used by the Windows '95 based remote control software.
- The 9580 has a universal power supply that operates on either 115 Volt / 60 Hz or 230 Volt / 50 Hz AC.

3.0 Front Panel Controls

User Presets

- Press the Preset button once to access Preset 1, press the Preset button again to access Preset 2. Then press the Save/Delete button to save the current box configuration to the selected preset. Use the “User Presets” 1 and 2 to retrieve the pre-saved configurations. Saving a preset will overwrite the previously saved preset at that location.

General

- **VBI Source**

The VBI source can be set to either A (*SDI A INPUT*), B (*SDI B INPUT*), C (*SDI C INPUT*) or Blank.

- **Upgrade**

This option is used to set the unit ready to receive firmware updates through the RS-232 port located on the rear panel. The port settings are; baud rate=57600, parity=no, data bits=8, stop bits=2. The data transfer protocol used is X-Modem. Any standard terminal program should work including *Hyper Terminal*, which is included with Windows '95/98.

- **Standard**

This option is used to set the unit for 525 or 625 video. Use the shaft encoder to select the desired value and press the setup button. The unit will perform a warm boot and return to operation in the correct video format.

Character Inserter

1. *Letterbox Display* – used to set the, *Letterbox* on screen status display, mode:

- *Update* – enables the display to turn on only when a *Letterbox* setting is changed. The display persists for five seconds when triggered then turns off.
- *On* – turns display on, setup information is constantly displayed on screen.
- *Off* – turns display off, no setup information will be displayed on screen.

2. *Letterbox Position* – These values are set to pre-programmed aspect ratios. The aspects can be cycled by pressing the front panel button and then turning the shaft encoder knob.

3. *Graticule Display* – used to set the, *Graticule* on screen status display, mode:

- *Update* – enables the display to turn on only when a *Graticule* setting is changed. The display persists for five seconds when triggered then turns off.
- *On* – turns display on, setup information is constantly displayed on screen.
- *Off* – turns display off, no setup information will be displayed on screen.

4. *Graticule Position* – These values are set to pre-programmed aspect ratios. The aspects can be cycled by pressing the front panel button and then turning the shaft encoder knob.

Timing

Reference Input – allows the user to change the input that the main board uses to derive the output clock and timing. The user can select either A (*SDI A INPUT*), B (*SDI B INPUT*) or C (*SDI C INPUT*). By default the unit is set to C. There must be a valid input signal present on the input channel that is selected as the reference in order for the unit to function correctly.

Offset Manual – allows for manual adjustment of the delay from the reference input to output.

Offset Auto – automatically sets the delay from reference input to output to accommodate the relative timing of all three inputs.

ESC

- This key is similar to the “Esc” key on a standard computer keyboard. It is used to back out of menus or to abort setup operations.

SAVE/DELETE

- Saves current box configurations to presets.

SRC A

- The button to the **left** of the *Main Display* routes the signal present on the *SDI A INPUT* to *channel 1*.
- The button to the **right** of the *Main Display* routes the signal present on the *SDI A INPUT* to *channel 2*.

SRC B

- The button to the **left** of the *Main Display* routes the signal present on the *SDI B INPUT* to *channel 1*.
- The button to the **right** of the *Main Display* routes the signal present on the *SDI B INPUT* to *channel 2*.

SRC C

- The button to the **left** of the *Main Display* routes the signal present on the *SDI C INPUT* to *channel 1*.
- The button to the **right** of the *Main Display* routes the signal present on the *SDI C INPUT* to *channel 2*.

BLACK

- The button to the **left** of the *Main Display* routes the internally generated *black* signal to *channel 1*.
- The button to the **right** of the *Main Display* routes the internally generated *black* signal to *channel 2*.

GRATICULE GENERATOR

- Enables the *Graticule Generator*.
- If both the *Graticule Generator* and *Letterbox Generator* are active, and the *Letterbox Generator* is currently selected, then this button allows the user to switch front panel control from the *Letterbox Generator* back to the *Graticule Generator*.
- Using either shaft encoder the *Letterbox Aspect Ratio* can be adjusted between the following values:

1.33	1.77	1.85	2.35
------	------	------	------

- Pressing the button a second time allows the user to set the *Follow Aspect Ratio* between the following values:

1.33	1.77	1.85	2.35
------	------	------	------

- Pressing the button a third time will turn the *Graticule Generator* off.

25%

- Sets the ratio of *channel 1* to *channel 2* shown on the video output. This setting will show 25% of *channel 1*, on the left-hand side, and 75% of *channel 2*, on the right-hand side.

50%

- Sets the ratio of *channel 1* to *channel 2* shown on the video output. This setting will show 50% of *channel 1*, on the left-hand side, and 50% of *channel 2*, on the right-hand side.

75%

- Sets the ratio of *channel 1* to *channel 2* shown on the video output. This setting will show 75% of *channel 1*, on the left-hand side, and 25% of *channel 2*, on the right-hand side.

CTRL LOCK

- {not supported in current firmware release}

LETTERBOX GENERATOR

- Enables the *Letterbox Generator*.
- If both the *Letterbox Generator* and *Graticule Generator* are active, and the *Graticule Generator* is currently selected, then this button allows the user to switch front panel control from the *Graticule Generator* back to the *Letterbox Generator*.
- Using either shaft encoder the *Letterbox Aspect Ratio* can be adjusted between the following values:

1.33	1.77	1.85	2.35
------	------	------	------

- Pressing the button a second time allows the user to set the *Letterbox Track*. Using either shaft encoder the user can adjust the *aspect ratio* ranging in values from 1.31 to 53.33 (525) or 62.88 (625).
- Pressing the button a third time will turn the *Letterbox Generator* off.

ASPECT RATIO

- {not supported in current firmware release}

RATE

- Use the *Rate* setting to set the total time taken to complete any of the effect transitions. The rate is linear from start to finish.
- Rate is measured in frames only.

START/STOP

- Use the *START/STOP* button to start or stop an effect transition. Pressing the *START/STOP* button during a transition in progress will pause the transition until the *START/STOP* button is pressed again. The transition will continue on from its current paused position.

EFFECT

Press the Start/Stop button to remove the previous effect before applying a new effect.
Press the *EFFECT* button to cycle through the available effects listed below:

- ***effect vsplit***

Splits the screen vertically showing *channel 1* on the left and *channel 2* on the right. When the *START/STOP* button is first pressed *channel 1* is wiped over *channel 2* from left to right. When the *START/STOP* button is pressed a second time *channel 2* is wiped over *channel 1* from right to left.

- ***effect dia bl***

Splits the screen diagonally from the bottom left to the top right showing *channel 1* on the upper left and *channel 2* on the lower right. When the *START/STOP* button is first pressed *channel 1* is wiped over *channel 2* from the top left corner to the bottom right corner. When the *START/STOP* button is pressed a second time *channel 2* is wiped over *channel 1* from the bottom right corner to the top left corner.

- ***effect hspllit***

Splits the screen horizontally showing *channel 1* on the top and *channel 2* on the bottom. When the *START/STOP* button is first pressed *channel 1* is wiped over *channel 2* from top to bottom. When the *START/STOP* button is pressed a second time *channel 2* is wiped over *channel 1* from bottom to top.

- ***effect dia tl***

Splits the screen diagonally from the top left to the bottom right showing *channel 1* on the lower left and *channel 2* on the upper right. When the *START/STOP* button is first pressed *channel 1* is wiped over *channel 2* from the bottom left corner to the top right corner. When the *START/STOP* button is pressed a second time *channel 2* is wiped over *channel 1* from the top right corner to the bottom left corner.

- **effect fade**

Shows a full screen mix of *channel 1* and *channel 2*. When the *START/STOP* button is first pressed *channel 1* is faded in while *channel 2* is faded out. When the *START/STOP* button is pressed a second time *channel 2* is faded in while *channel 1* is faded out.

4.0 Front Panel Indicators

USER PRESET 1 AND 2

- Signifies the previously saved preset from the specified location 1 or 2 is active.

A, B and C

- These LED's indicate which physical input is being used for this channel. Only one of these LED's will be on at any given time. There are two channels and thus two sets of indicator, one set to the left of the main display for *channel 1* and one set to the right for *channel 2*.

BLK

- Indicates that the internally generated *black* signal is being used for this channel.

MAIN DISPLAY

- This, sixteen character display is used to show menu items, setting values, mode selections etc.

525

- Indicates that the unit is programmed for 525-line mode of operation.

625

- Indicates that the unit is programmed for 625-line mode of operation.

VALID TIMING

- Indicates that the current timing offset value properly accommodates all three inputs. The timing offset can be set using the *Setup* menu *Timing* option.

PRESET ACTIVE

- *{not supported in current firmware release}*

GRATICULE GENERATOR

- Indicates if the *Graticule Generator* is presently active.

LETTERBOX GENERATOR

- Indicates if the *Letterbox Generator* is presently active.