



***TECH NOTE***

***Fastrack VS™ Version 2.0 and later***

## **EVERTZ HD9625 DSK** **HIGH DEFINITION DOWNSTREAM KEYER**

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The Evertz HD9625DSK High Definition Downstream Keyer can mix background, key and fill HDTV signals while under control via Fastrack GPIs. The HD9625DSK provides storage and retrieval capabilities of presets (1-10) from the front panel and Fastrack uses 8 GPIs to recall presets with transition, rate and swap options.



This document covers the following:

- Connections to/from HD9625DSK and Fastrack
- Programming/Storing of Presets
- Recalling Presets via Fastrack GPIs
- Cable for control of HD9625DSK from Fastrack's GPI

See the Evertz HD9625DSK Instruction Manual for more operational instruction.

## CONNECTIONS



Rear view of the HD9625DSK

Connect the GPI cable DB15 plug to the GPIO DB15 socket of the HD9625DSK. The DB25 plug connects to the DB25 socket on the Fastrack Sync/GPI board (video reference).

Connect the incoming video signals to the HD Inputs for HD serial digital SMPTE 292M video (BGND/A, FILL/B, and KEY). A video signal should be supplied prior to applying power to the HD9625DSK.

Connect HD serial digital video output cable to the HD Outputs (PREVIEW, PROGRAM).

## GPI CABLE

### HD9625DSK (DB15 male)

DB15	Description
10	+3.3v (jumper to 15)
15	VEXT (jumper to 10)
8	GPI A
14	GPI B
5	GPI C
9	GPI D
12	GPI E
7	GPI F
13	GPI G
11	GPI H
1	Ground

### Fastrack (DB25 male)

GPI#	Collector	Emitter
1	1 (A)	14
2	2 (B)	15
3	3 (C)	16
4	4 (D)	17
5	5 (E)	18
6	6 (F)	19
7	7 (G)	20
8	8 (H)	21
+5v	Pin 24 (not used)	

All Emitters tied to Pin 1 of DB15 (ground)

*Example:*

*For GPI #1 on Fastrack connected to GPI A on the HD9625DSK:*

Evertz DB15 male	SIGNAL	Fastrack DP25 male
10 to 15	Jumpered	n/a
1	< Ground / Low >	14
8	< GPI A / High >	1

## PRESETS

All HD9625DSK function feedback is provided on the 16 character front panel display screen. Use the SETUP button to access the On Screen Menu. You are presented with the following choices:

- GENERAL (Safe Area, Select Standard)
- MATTE (Matte Enable, Matte Aspect, Matte Top, Matte Bottom)
- DSK (Key Type, Key Gain, Key Offset, Key Threshold, Key Sharpness, Key Filter)
- TRANSITION (Transition Type, Transition Time, Swap Mode)
- PRESET (Recall Preset, Store Preset, GPI A to H, GPO 1 to 4)

Most often used items for Fastrack use:

### Transition

- Transition Type
  - Selects the 'on' transition type: Cut, Fade, Wipe (with various angles of 315, 270, 225, 180, 135, 90, 45, 0). Effects only appear on Program Out.
- Transition Time
  - Set the time for the transition (in frames).
- Swap Mode
  - Toggle Yes/No for program and preview channels to swap after transition.

### Preset

Presets are pre-defined setups for Transition settings and Key/Fill input. Parameters are stored based on the status of the program bus. All recalled presets are recalled to the preview bus and will not show until a GPI trigger invokes the transition.

**Recall Preset:** Select from 1 to 10 to reload previously saved settings.

**Store Preset:** Select from 1 to 10 to save the current settings.

There are two types of GPI triggers. The "Mode" setting in each GPI can be set to either Level or Pulse. Level is the traditional setting and is used with Fastrack. The On Closure event happens when the GPI drives the input pin low to ground. The On Separation event occurs when the GPI releases the level to the +3.3 setting again.

GPIs can be configured to trigger two events, but is easiest to understand/operate if each GPI trigger is associated with only a single event. Use the Up/Down arrow to the desired GPI and press the Select button. The On Closure event can be used to load a Preset and perform a transition. The On Separation is set to None. When done, press the Setup button to exit the configuration mode and press the Select button again to save the changes and exit the Preset setup.