

ShuttlePROv2 and ShuttleXpress

(credit Eric Messick - FixedImagePhoto.com)

Directions for using the ShuttlePROv2 and the ShuttleXpress with Cinelerra are described next. These devices work by sending keystrokes used in Cin, corresponding to the shuttle action, to the keyboard buffer. The shuttle has been fully integrated into the Cinelerra code so that after the initial setup, no further intervention is required.

Device names for the 2 different shuttles are:

```
/dev/input/by-id/usb-Contour_Design_ShuttlePRO_v2-event-if00
/dev/input/by-id/usb-Contour_Design_ShuttleXpress-event-if00
```

Only 1 necessary initial setup is required due to permission settings for non-root usage. You will need a file in /etc/udev/rules.d called 99-ShuttlePRO.rules that contains the line (you can make a copy of the file at {cinelerra_path}/doc/99-ShuttlePRO.rules) :

```
ATTRS{name}=="Contour Design ShuttlePRO v2" MODE="0644"    # for the PRO model
ATTRS{name}=="Contour Design ShuttleXpress" MODE="0644"    # for the Xpress model
```

then the next time after you reboot, the permissions should be correct. Both shuttles can be in the file.

A default shuttlerc file is automatically used when a shuttle device is plugged in when Cin is started. This file sets up the key bindings for Cinelerra to use. You can override any default settings by having a local file in your \$HOME directory, named .shuttlerc. It is pretty easy to modify this file to reflect your personal preferences for the key settings. Looking at the default {cinelerra_path}/shuttlerc file, you will see a section for Cinelerra, one for the Composer, one for the Viewer and one for Defaults that will be used everywhere else. You will see lines like the following:

```
K5 XK_KP_0    # Stop
K9 XK_KP_3    # Play
```

you can change these to alternative key bindings, for example:

```
K5 "i"        # Clip
K9 "c"        # Copy
```

After modifying .shuttlerc, the next time you use the shuttle, your changes will automatically take affect without even having to stop and restart Cin. Keep in mind when changing the bindings, that the ShuttleXpress has fewer buttons so if you define K1 it will only work for the ShuttlePROv2. Also, if you swap your shuttle, for example upgrade from an Xpress to a PROv2, just stop Cin, unplug the original shuttle / plug in the replacement shuttle, and restart Cin.

Any time you are having trouble with your shuttle, you can copy the default shuttlerc file from {cinderat_path}/shuttle to your local .shuttlerc file, and edit that to switch to DEBUG mode by removing the # comment from the DEBUG line. But you will have to have started Cin from a terminal window to see the key values. The first time you use the shuttle or after you change the file, the current bindings will show in the terminal window so will look something like:

[Cinelerra] # 1

K5[D]: XK_KP_0/U

K5[U]: XK_KP_0/U

When you are in DEBUG mode and are just working away, what you will see is something like this:

key: 0058 1

key: 0055 0

key: 0056 1

When you change the focus from one window to another, you will see something like this:

new focus: 04c00137

new translation: Viewer

key: 0059 1

The shuttle wheel occasionally will not “stop” after you have wheeled it to play forward. This is a documented known problem from the original code so you just have to joggle it a little in the other direction and then it will stop. Also, once in awhile the 3 mouse-like buttons fail to activate, but then if you switch windows and use them there and come back to the original window, they work again.

ShuttlePROv2 key default arrangement for Cinelerra / Composer / Viewer:

K1 Clip	K2 Cut Home(Viewer)	K3 Copy Copy	K4 Paste End(Viewer)	
K5 Stop Play Splice(Viewer) Home(Defaults)	K6 MouseBtn1	K7 MouseBtn2	K8 MouseBtn3	K9 Play Overwrite(Viewer) End(Defaults)
Shuttle Outer Wheel Play forward or Play reverse S1=Slow S2=Play S3=Fast S0=Stop S-1=Slow S-2=Play S-3=Fast				
K14 Toggle In-[Jog Left--(Inner Wheel)--Jog Right Frame reverse Scroll up(Defaults)		Frame forward Scroll down(Defaults)	K15 Toggle Out-]
K10 Above row currently all unused				
K11 Above row currently all unused				
K12 Beginning		K13 End		

ShuttleXpress key default arrangement for Cinelerra / Composer / Viewer :

K5 Stop Play Splice(Viewer) Home(Defaults)	K6 MouseBtn1	K7 MouseBtn2	K8 MouseBtn3	K9 Play Overwrite(Viewer) End(Defaults)	
Shuttle Outer Wheel Play forward or Play reverse S1=Slow S2=Play S3=Fast S0=Stop S-1=Slow S-2=Play S-3=Fast					
Jog Left--(Inner Wheel)--Jog Right Frame reverse Scroll up(Defaults)					Frame forward Scroll down(Defaults)