Setup For Mesh 3 Side Sensors Pads

Positional Sensing for pads with 3 side centers was modeled using an ATV S13 snare and a Roland PDA-120LS and may not generalize with other pads. For best results, make sure you scan time is between 2.3 and 2.6 ms.

On / Off   *CC / Note*

Off-Center Size   *Time Thresh*   *Edge Thresh*

There are 3 filters to detect off-center and edge hits. Each filter can be turned off by setting its value to zero.

A hit is first processed by the Off-Center control. If not 'handed' by the Off-Center control, the hit is sent to the Time Thresh Control.

> **Note**: All hits are processed by the Edge Thresh and it trumps the other two controls.

Off-Center Size

The image on the right shows how this control works. Roughly speaking, any hit in the yellow area will be 'handled' by this control.

Low Values   *High Values*

Processed Area   *Off-Center Area*

And any hit that falls into the green area will detected as 'off-center' and assigned a CC value between 64 and 127. Any other hit in the yellow are will be assigned a CC value of 0.

For low values, few hits will be detected as off-center, making the center area large. However, this also results some hits closer to the edge to be marked as center (unless caught by the Edge Control).

For high values, more hits towards the edge are marked as 'off-center', but the size of 'center' are is reduced, so there's a trade off. For best results, you set this control as high as you can without making the center too small.

> **Note**: The size of the yellow area is influenced by the input's scan time setting. For good results, a minimum of 2.3ms is needed. Increasing the scan time up to 2.7ms may increase the size of the yellow area.

Time Thresh

Only hits not handled by the Off-Center control are processed by the Time Thresh control, so it's often helpful to turn off the off-center control off when making adjustment.

The indicator of the Time thresh control shows the length of a hit. If the indicator falls inside the green part of the control, then the hit is deemed to be an off-center hit and assigned a CC of 64.

By default the indicator must be *greater* than the threshold, but by clicking the button you can change it to *less than*.

Edge Thresh

If your pad is stereo (dual zone), information from the ring sensor can also be used to detect hits close to the edge of the pad. If a hit falls into the green area of the meter, the hit will be assigned a CC value of 127. The control adjusts the size of the green area.