

Issue report for Argentina H-shaking

Issue :

The display shakes in Argentina field signal.

Root Cause :

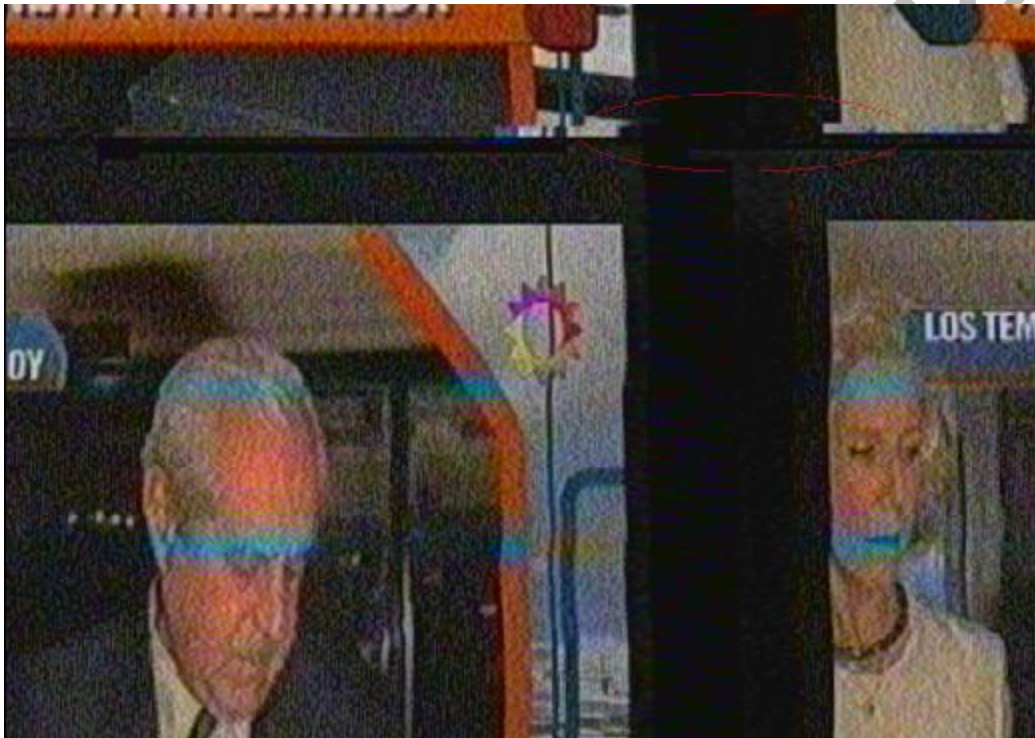


Figure 1

Figure 1 shows the partial image from the simulation result. In the end of each field, there appears a large h-sync phase error as the red circle marks. Besides, other h-syncs during active region are also unstable.

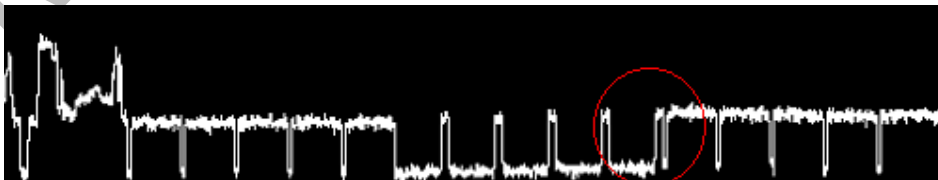


Figure 2

Figure 2 shows the dump waveform from the singals, near VBI region. The signals raises here and makes big phase errors. These phase errors effects quality of h-sync tracking and therefore the display shakes.

Solution :

To speed up the DPL tracking can solve this issue. The dsp can detect this type of signal and increases the speed of DPL automatically. By the current solution, he detect speed is a bit slow (more than 10 seconds now). A faster solution can be implemented but is not suggested because it may cause other side effects.