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ANT-4000E to ANT-4000D Latency -Report

This report defines a test setup for measuring the practical end to end latency of the Antrica ANT-4000 Encoder Decoder pair.

The setup used was as follows

- 1) Apple Mac laptop running Windows XP natively displaying a running stopwatch application. In parallel the Macbook has a display port output via HDMI which outputs a clone of the laptops display via HDMI output. Display and HDMI output resolution was set to 1920 x1080 at 60Hz
- 2) The HDMI output from the macbook is fed to the ANT-4000E which is connected to a network.
- 3) The ANT-4000D decoder is connected to the same network as above and the HDMI output is connected to a full HD monitor.
- 4) Both monitors can be see in Figure 1 below , the lower monitor is the laptop source and the upper monitor is the ANT-4000D decoded output.
- 5) A digital camera was used to take a photo of the two monitors simultaneously thus showing the stopwatch original and ANT-4000E decoded version.
- 6) Figure 2 shows the output of the Laptop directly connected to the same monitor as used by the ANT-4000D to show any latency differences between Laptop display and monitor. You can see that both stopwatch times are the same so monitor latency differences are zero.
- 7) Figure 3 shows the actual latency between laptop and an encoded and decoded version of the laptop image.
- 8) Typical ANT-4000E to ANT-4000D latency is 66mS in this test but we claim 60-80mS.

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FIGURE 1 Test SETUP

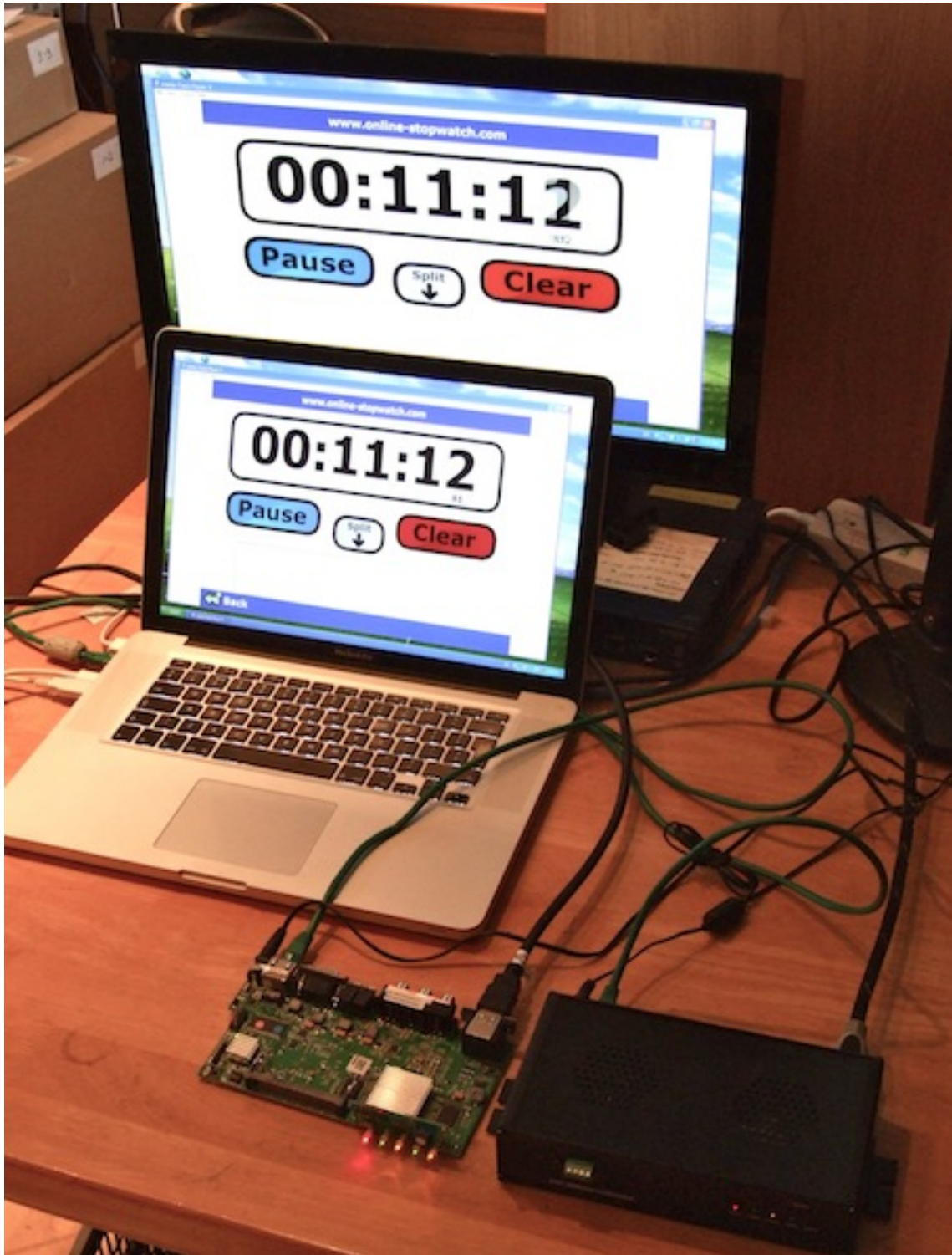


Figure2 Shows differential latency between laptop display and monitor



Figure 3: Latency between ANT-4000E and ANT-4000D approx 66mS

