

IR TV Remote

Last updated 3/26/18

TV Remote

- Remote Control Operation
 - PWM output
 - 40KHz waveform
 - Pulse train width determines '1' or '0'

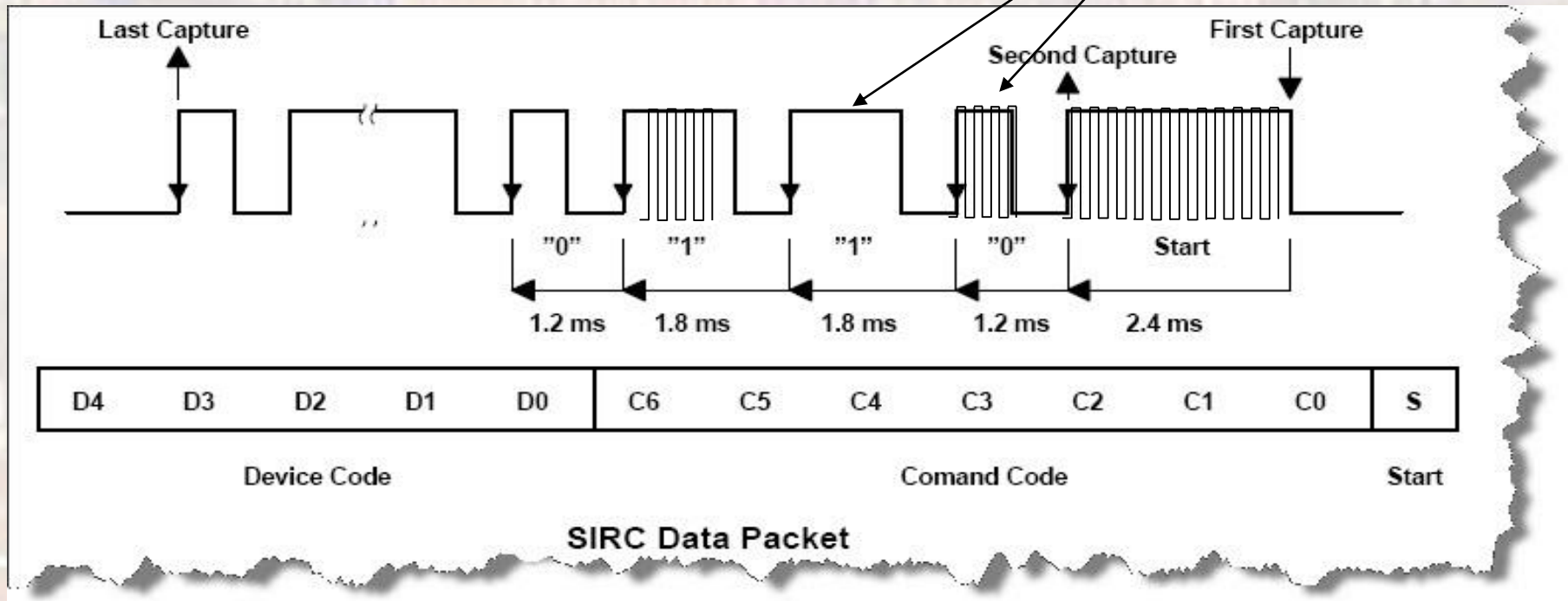


TV Remote

- Remote Control Operation

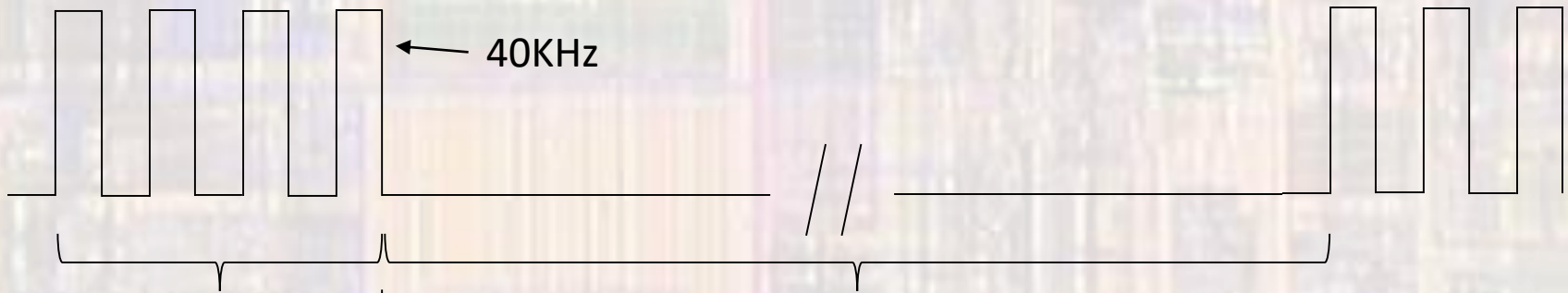
- PWM output
- 12 bit waveform
- Pulse train width determines '1' or '0'

pulses are 40KHz pulse trains

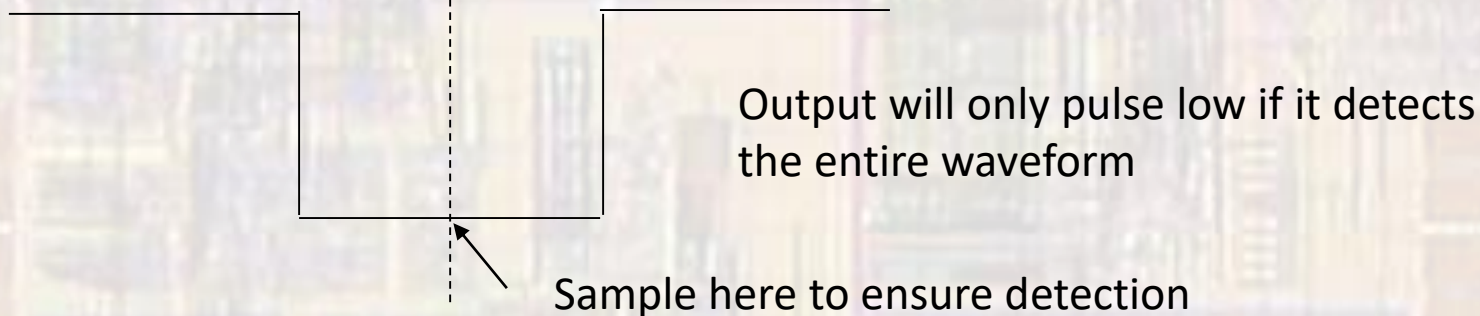


TV Remote

- Remote Control Operation
 - Detector captures the edge of the pulse train



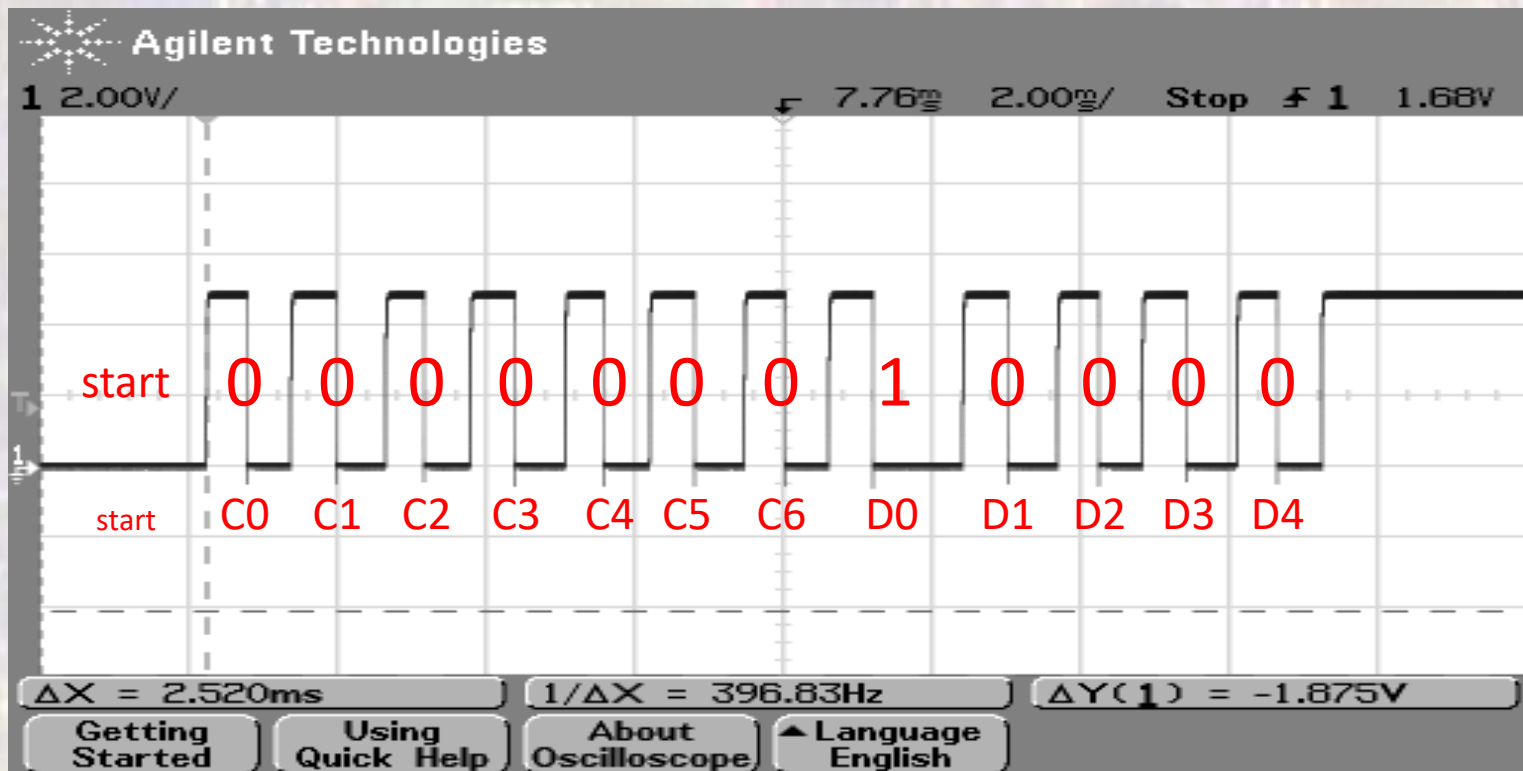
- Detector output



TV Remote

- Remote Control Operation
 - Remember, detector output is inverted
 - key 1, data = 0

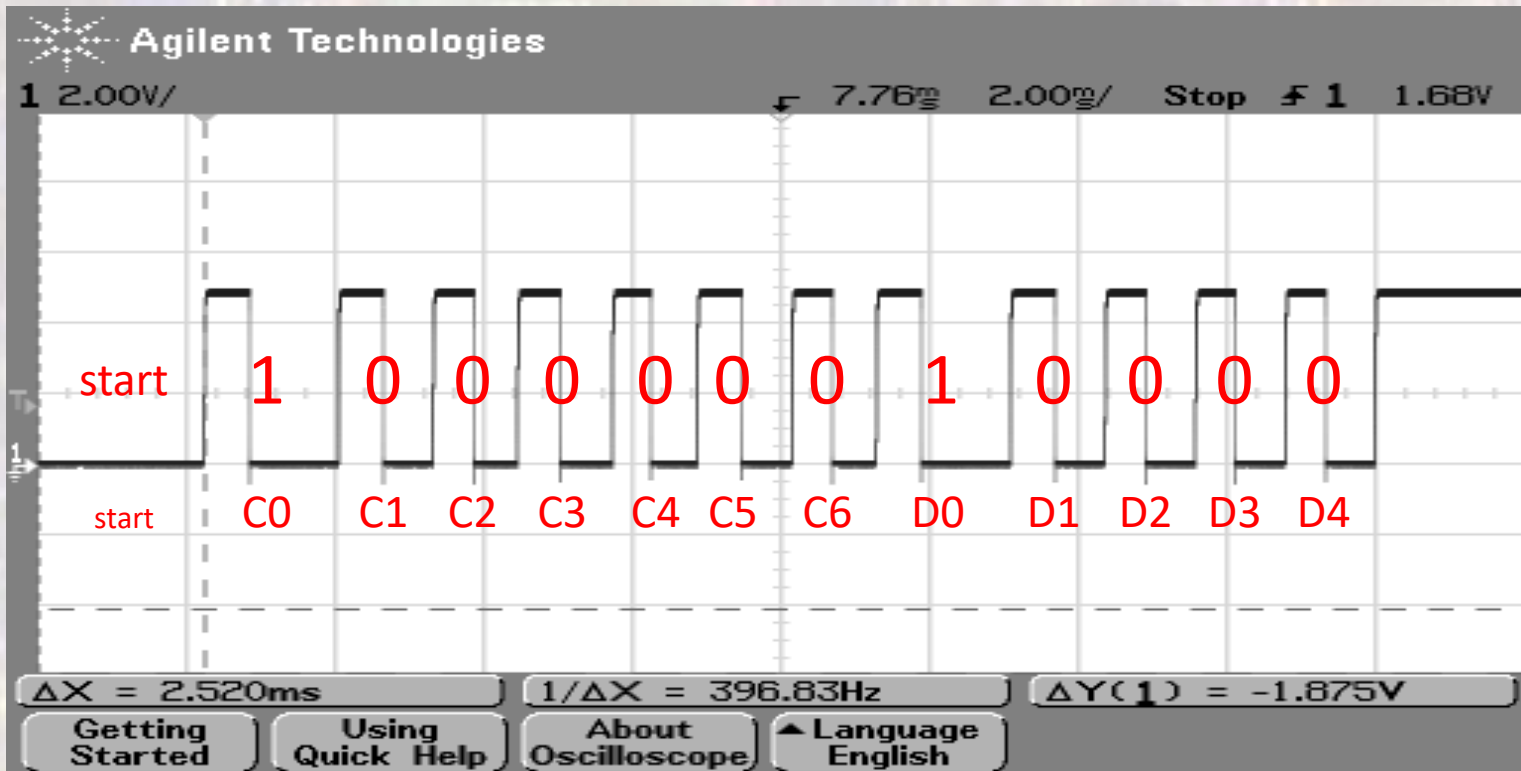
Command Code (Hex)	Function
0	Key 1
1	Key 2
2	Key 3
3	Key 4



TV Remote

- Remote Control Operation
 - Remember, detector output is inverted
 - key 2, data = 1

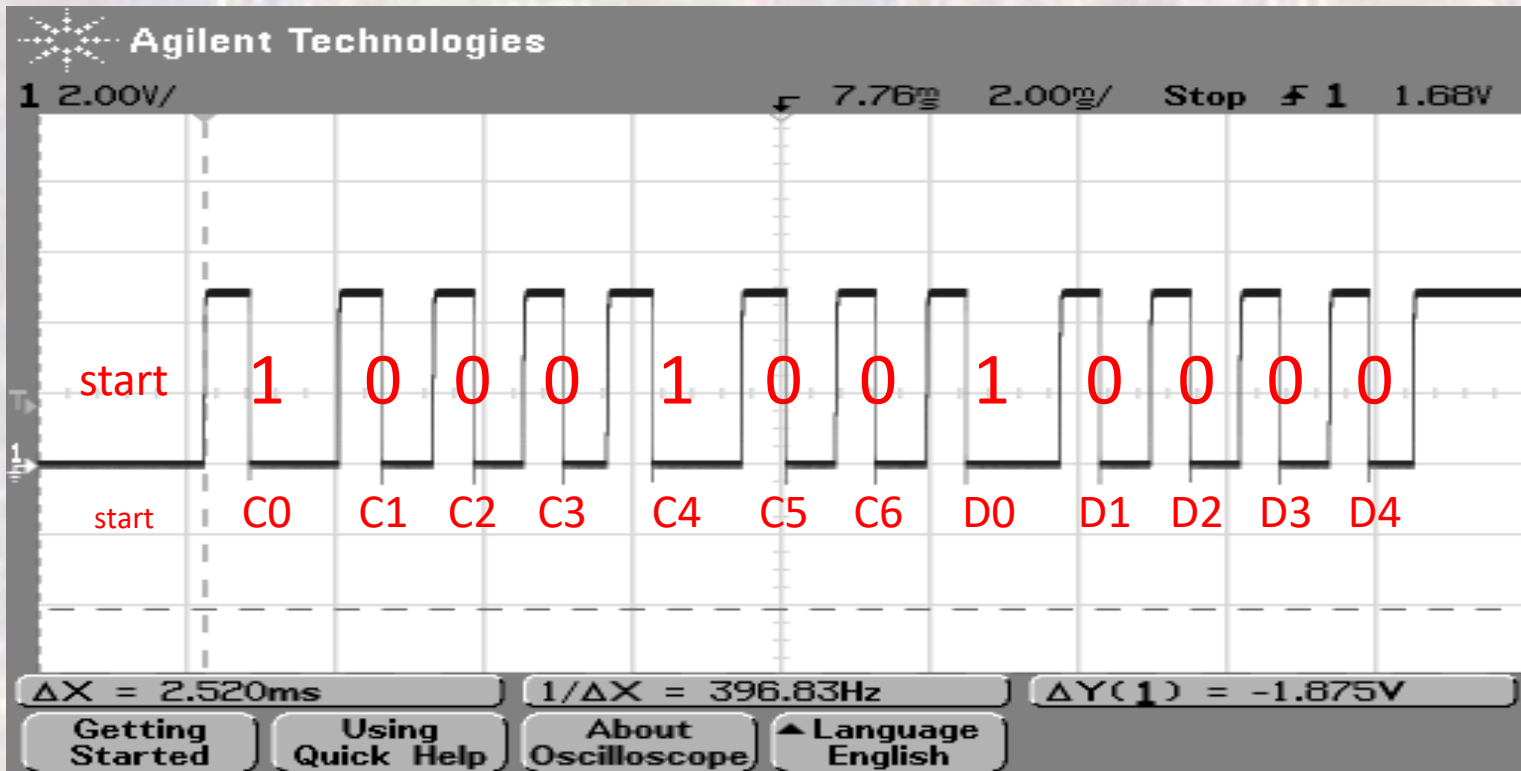
Command Code (Hex)	Function
0	Key 1
1	Key 2
2	Key 3
3	Key 4



TV Remote

- Remote Control Operation
 - Remember, detector output is inverted
 - key channel down, data = 0x11

Command Code (Hex)	Function
0x10	Channel +
0x11	Channel -
0x12	Volume +
0x13	Volume -



TV Remote

- Remote Control Operation
 - Available in the Tech Center
 - Make sure you program the remote before using it



Direct Code Entry

1. Press and hold the **SETUP** button until the red indicator stays on, then release the **SETUP** button.
2. Press and release the desired device button (**TV**, ~~DVR~~, etc.). The red indicator blinks, then stays lit.
3. Enter the 4 digit code from the **back**

Note: after a valid code entry, the red indicator turns off. For an invalid code, the red indicator flashes.

1	2	3
4	5	6
7	8	9