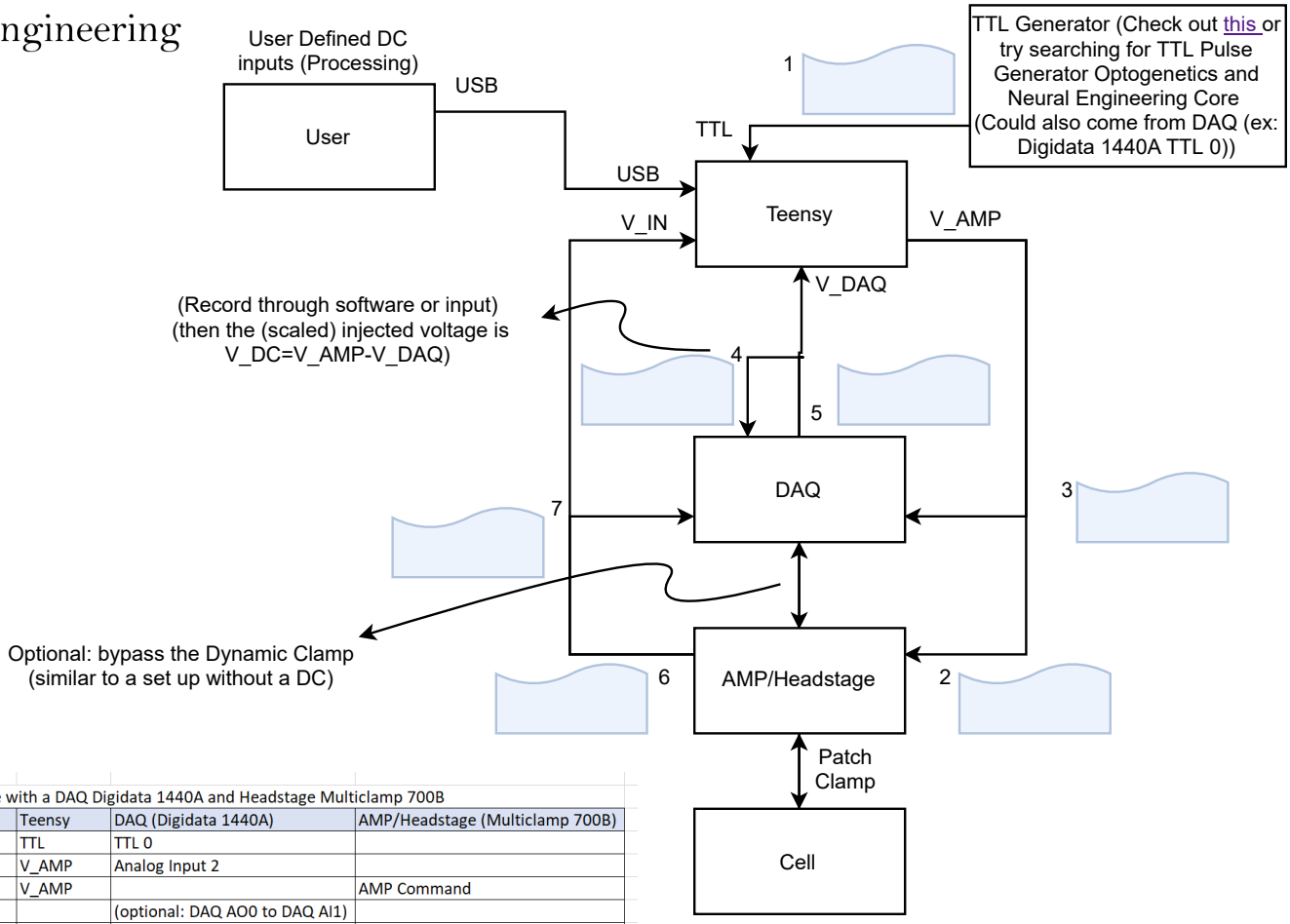
# Dynamic Clamp Hook Up Guide (information flow)



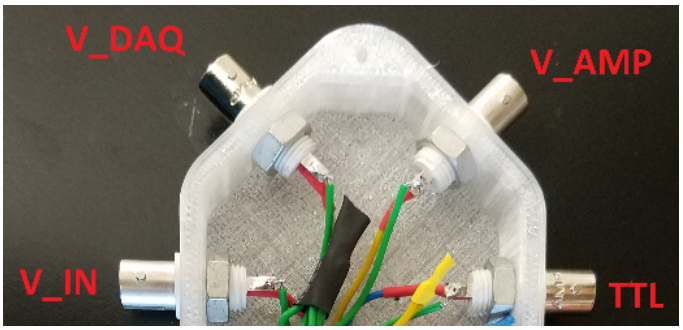

Example with a DAQ Digidata 1440A and Headstage Multiclamp 700B

| Number | Teensy | DAQ (Digidata 1440A) | AMP/Headstage (Multiclamp 700B) |
|---|---|---|---|
| 1 | TTL | TTL 0 | |
| 2 | V_AMP | Analog Input 2 | |
| 3 | V_AMP | | AMP Command |
| 4 | | (optional: DAQ AO0 to DAQ AI1) | |
| 5 | V_DAQ | Analog Output 0 | |
| 6 | V_IN | Analog Input 1 | |
| 7 | V_IN | | AMP 1 Out |
| (optional, bypass DC) | | Analog Input 0 | AMP 2 Out |

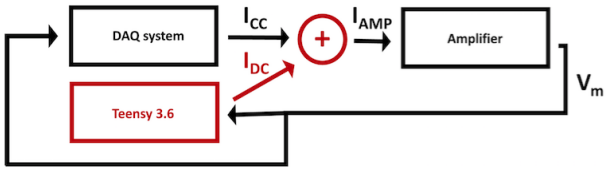
Blank for you to fill out

| Number | Teensy | DAQ | AMP/Headstage |
|---|---|---|---|
| 1 | TTL | | |
| 2 | V_AMP | | |
| 3 | V_AMP | | |
| 4 | | | |
| 5 | V_DAQ | | |
| 6 | V_IN | | |
| 7 | V_IN | | |
| | | | |

The Dynamic Clamp In/Outputs




Previous Diagram




note, CC is DAQ and
the hook up guide above is in Volts and not Current (except for Patch Clamp)


Reference:
Niraj S. Desai, Richard Gray, and Daniel Johnston.
A dynamic clamp on every rig. eNeuro (DOI:10.1523/ENEURO.0250-17.2017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