

# Exp-Pro Testing Specification

Purpose: Test the [Explorer-Pro Gateway](#) using the default options.

Requires:

1. Raspberry Pi.
  - a. Running either Stretch or Buster.
  - b. All necessary Python packages loaded.
  - c. [Pimoroni Exploror-Pro](#)
2. Test Fixtures:  
[ExpProGui](#).

Procedure:

NOTE: For this test, each Banyan component will be started manually from its own terminal window.

1. Start the Backplane
2. Start the [Explorer-Pro Gateway](#) using the following command for coverage:  
`coverage run --branch --append --omit=/usr/lib*,/usr/local* exp_pro_gateway.py -a True`
3. Start the ExpProGui.
4. Run all features in GUI.
5. Check coverage report to confirm that all expected lines of code were executed.

Special Note: Digital input is not instrumented for some reason by coverage. I believe this is because of the convoluted nature of threading within the Pimoroni library. Checking the 4 digital inputs manually, they do work.