

# Tunalyzer

The next-generation tool for motor testing and tuning



High test accuracy strong consistency



There are two test modes



3 inch color touch screen display



RPM Displayed in Real Time



OTA Tuning and Upgrades



Multi-Function Control Dial



Multiple motor types supported



Built-in Reverse Polarity Protection



## Accurate testing results Consistent and reliable

8 different auto-test parameters

4 different manual test parameters

Accurate current readings - within **0.01A**

Timing, rotor, and signal accuracy within **0.1 degrees**

Accuracy is achieved by gathering more information and providing more data for the Tunalyzer to review

### Automatic Test Mode

The Tunalyzer allows you to run auto-testing modes to provide quick and easy tests.

### Manual Test Mode

The Tunalyzer can be used as a manual tester for simple benchtop checks. Forward and reverse with 100% linear throttle.

**Note:** The motor pole must be set after starting the "Auto Motor Test" for the first time.

### 3 Inch Color Touch Screen Display

Ultra crisp and clear full-color touch display allow for an extremely quick and easy-to-learn interface. Easy to read and use.

### RPM Displayed in Real Time

The Tunalyzer provides a motor pole setting from 2-60 pole motors. This allows for an accurate and precise display of motor RPM in real-time.



### OTA Tuning and Upgrades

The Tunalyzer can double as your ESC programmer device for simple benchtop ESC tuning. With the HW Link App, your favorite smart device can be used to connect via Bluetooth to the Tunalyzer.

### Multi-Function Control Dial

The dial on the face of the Tunalyzer is used for throttle control as well as external testing. PWM output is offered for use to test Servos and ESCs on the bench.

### Multiple motor types supported

Sensorless and Sensor motors can be tested. Virtually any pole count or style of a brushless motor can be tested with the Tunalyzer.

**Note:** Sensorless motor characteristics may differ from sensed motor results. The test data is only available in specific item. See the instruction manual for details.

### Stable Voltage Regulator

The Tunalyzer has an internal voltage regulator to allow repeated tests at the same voltage as the battery pack discharges. This allows testing to be done on several motors for direct comparisons.

**Note:** Tunalyzer has "Preset" voltages for this feature that must be used and the battery must be greater than the set voltage.



## Built-in Reverse Polarity Protection

Based on the same proven technology from the ESC lineup, the Tunalyzer is protected from the reverse voltage power connection.