

RACELOGIC's Performance Box Touch measures speed, lap and split times, delta-T, acceleration, deceleration as well as distance and more.

All these parameters are logged to an SD card 25 times per second and can be viewed on screen and analysed in detail using the VBOX Test Suite or Circuit Tools software provided.

Performance Box Touch has four operation modes available which allow you to conduct a range of performance tests and functions: Accel, Decel, Lap Timing, and Speed.



More info









Example Screens for Acceleration Testing

See links above for more information on the other operation modes.

Primary Screen



- Acceleration tests including: 0-60, 0-100, 0-100-0 and 0-1/4 mile.
- Custom speed, distance or 0-speed-0 tests can be configured, and other options include enabling or disabling alert at end of test, one-foot rollout and slope correction.
- Can display up to 4 concurrent test results.
- Screen displays time, run number, distance, VMAX, Peak G, and altitude difference. Units of measurement for speed or distance can be easily swapped between metric or imperial.

Secondary Screen

| ACCEL | e st | | |
|-------------------|--------|---------|-------------------|
| 253.0 км/н | | 0-60 | 0.98 _s |
| | | 0-100 | 1.74s |
| PEAK G | 1.77 | 0-100-0 | 9.90 _s |
| VMAX | 273.89 | 0-402 M | 8.47 s |
| | | J C | Θ |

Best Result



Accel Results





Environmental and Physical

| Environmental & Physical | | | | |
|--|--|--|--|--|
| Input Voltage | 5 V (USB compliant 4.4 V – 5.3 V) | | | |
| Power consumption (Connected to external power supply) | < 7 W | | | |
| With Battery | using 1.5 A or greater USB supply via micro-B | | | |
| Without Battery | < 3 W Using 0.9 A or greater USB supply via micro-B | | | |
| Operating Temperature | -20°C to +50°C | | | |
| Storage Temperature | -30°C to +80°C | | | |
| Size With battery attached Without battery | 136.3 x 90.4 x 38.3 mm 136.3 x 90.4 x 36.3 mm | | | |
| Weight With battery Without battery | 336 g 226 g | | | |
| Battery | 11 Wh | | | |
| Capacity Run time | 6 hrs normal use from full charge | | | |
| Time to charge | 95% charge at 3.5 hrs, dependant on unit power demands and power supply. | | | |
| Touch Screen | | | | |
| Size | 4.3" TFT Capacitive Touch | | | |
| Resolution | 480*800 pixels | | | |
| TFT LCD Display Colours | 262K colours (18 Bit) | | | |
| Mounting | | | | |
| Mount Type | Suction cup windscreen mount | | | |
| Data Storage | | | | |
| Туре | SD card (8 GB supplied) | | | |
| Recording Time | 120 hours on supplied SD card. | | | |



Diagrams

Without Battery







With Battery



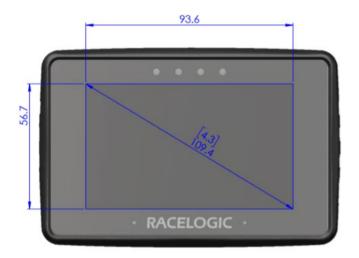








Screen





GPS Specifications

| Velocity | | Distance | |
|-------------|-------------|-------------|-----------------------|
| Accuracy | 0.1 km/h | Accuracy | 0.05% (<50 cm per km) |
| Units | km/h or mph | Units | Metres / Feet |
| Update rate | 25 Hz | Update rate | 25 Hz |
| Resolution | 0.01 km/h | Resolution | 1 cm |

| Absolute Positioning | | Time | |
|----------------------|---------------|------------|--------|
| Accuracy | ±2 m 95% CEP* | Accuracy | 0.01 s |
| Resolution | 1 cm | Resolution | 0.01 s |
| Update rate | 25 Hz | | |

| Acceleration | | Heading | |
|--------------|--------|------------|-------|
| Accuracy | 1% | Accuracy | 0.3° |
| Resolution | 0.01 g | Resolution | 0.01° |
| Maximum | 4 g | | |
| Update rate | 25 Hz | | |

Definitions:

* CEP = Circle of Error Probable. 95% CEP means 95% of the time the position readings will fall within a circle of the stated radius.



Package content

Performance Box Touch is available in two versions. There are no differences in functionality between the two, only in which peripherals are included:

| Description of RLPBT | Product Code |
|--|--------------|
| 1x Performance Box Touch unit only | PBT-V2 |
| 1x Windscreen Suction Mount | RLACS331 |
| 1x Cigar Plug USB Adaptor | RLACS184 |
| 1x USB 2.0 A to Right Angle Micro B Charging Cable 1.5m lead | USB2-007241 |
| 1x 8 GB SD Ultima Pro UHS-1 Memory Card | RLACS313 |

| Description RLPBT/B | Product Code | |
|---|--------------|--|
| Same as RLPBT, plus: | | |
| 1x Performance Box Touch Battery | RLACS290 | |
| 1x GPS / GLONASS Low Profile Antenna 2m cable | RLACS284 | |
| 1x Plastic Carry Case | RLACS281 | |

Supplied software

Each Performance Box Touch is supplied with a SD card containing the VBOX Test Suite and Circuit Tools software. This software allows the user to display and analyse the information recorded by the Performance Box Touch.

Features include graphical display of logged parameters, full circuit plot, overlaid comparison laps and detailed performance analysis. More help and information available via Racelogic Support Centre.

