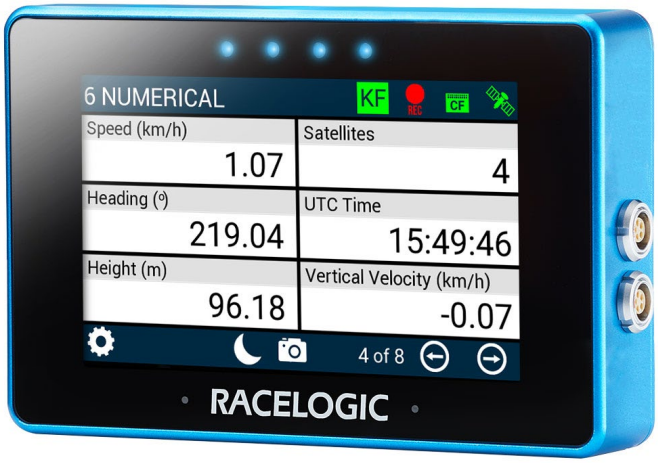
Multi-Function Touch Display

(RLVBMFDT)

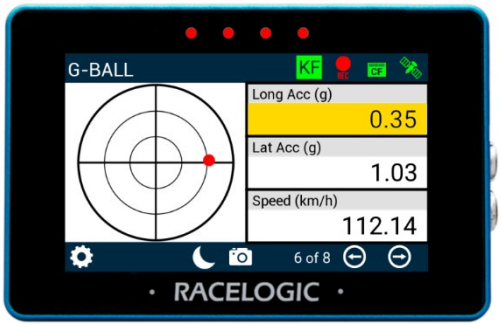
The Multi-Function Touch Display (MFD Touch) is designed to display GPS and CAN derived data channels from various VBOX loggers and sensors. It provides real-time calculation and presentation of performance test and lap timing results, eliminating the need for post-processing.

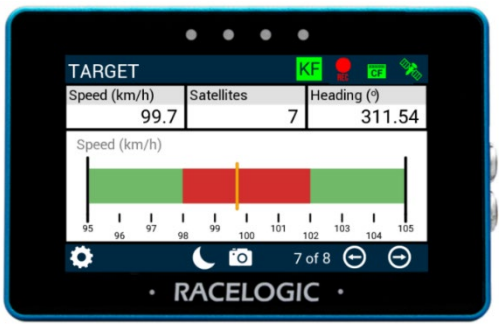


The MFD Touch features a 4.3” daylight-readable color touchscreen, ensuring visibility of necessary data for each test. It offers audio and visual alerts through an inbuilt speaker and four LED status lights, notifying the driver when user-defined data or test conditions are met.

Ideal for in-vehicle testing, the MFD Touch allows monitoring of up to six data parameters simultaneously, with eight different screen layouts for easy switching. Performance test and lap timing results can be instantly viewed on the screen or saved to an SD card as a text file. Additionally, performance test results are output via CAN.

Compatible products: VBOX 4 range, VBOX 3i ADAS, VBOX 3i range, VBOX IISX, VBOX 3iS range (Firmware Version 1.2.9388 or greater required.), and VBOX 100 Hz Speed Sensor (Firmware Version 1.8.1664 or greater required.)





Key Features

- 4.3” TFT colour touchscreen
- Displays up to six data channels simultaneously.
- Audio and visual alerts
  (via inbuilt speaker and LED status lights)
- User-configurable display parameters
- Connects to all units via CAN.
- Ideal for performance and braking tests
  (speed-to-speed and trigger activated)
- Ideal for slalom, point-to-point and circuit-based lap timing tests
- Supplied with a heavy-duty rubber suction cup.
- Compatible with the RACELOGIC CAN Hub
- Connects directly to thermal printer (insert part number) to print out all configured test results.
- Lifetime customer support

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Parameters which can be displayed on the MFD Touch:

General parameters are taken from a standard Racelogic CAN output. Decel test parameters are commonly used in brake testing, the majority of which require the use of the VBOX brake pedal trigger (RLVBACS004) or VBOX Pedal Force Sensor (RLACS282) and Event Marker Interface (RLACS292).

Lap Timing test parameters are used for any testing where speed at a location or time between points is important, such as Lane change testing and Slalom performance testing.

Standard Parameters	Deceleration Test Parameters
• Speed (km/h or mph) • Satellite Count • Heading (degrees north) • UTC Time • Height (m or ft) • Vertical Velocity (km/h or mph) • Longitudinal Acceleration (g or m/s²) • Lateral Acceleration (g or m/s²) • Max lateral Acceleration (g or m/s²) • Average Speed (km/h or mph) • Distance Travelled (m or ft) • Longitude (degrees minutes decimal seconds) • Latitude (degrees minutes decimal seconds) • Solution Type • Trigger • Radius of Turn (m or ft) • Filename **(not for VBSS100)** • Logging Status **(not for VBSS100)** • Memory Used in % **(not for VBSS100)** • KF Status **(not for VB2SX & VBSS100)** • Speed Quality (km/h or mph)	• Deceleration Test Number • Deceleration Distance (m or ft) • Deceleration Time (s) • Deceleration Test Start Speed (km/h or mph) • Deceleration AMS Distance (m or ft) • Deceleration MFDD (g or m/s²) • Average Deceleration (km/h or mph) • Peak Deceleration (km/h or mph) • Deceleration Centreline Deviation (m or ft) • Trigger Test Number • Distance from Trigger (m or ft) • Time from Trigger (s) • Speed at Trigger (km/h or mph) • Corrected Trigger Distance (m or ft) • Trigger AMS Distance (m or ft) • Trigger MFDD (g or m/s²) • Trigger Average Deceleration (g or m/s²) • Trigger Peak Deceleration (g or m/s²) • Trigger Centreline Deviation (m or ft)
Accel Test Parameters	**Lap Timing Parameters**
• Acceleration Test Number • Acceleration Time (s) • Acceleration Distance (m or ft) • Maximum Speed (km/h or mph) • Peak Acceleration (km/h or mph) • Average Acceleration (km/h or mph) • Speed at Distance (km/h or mph)	• Lap Count • Lap Time • Last Lap Time • Best Lap Time • Average Lap Time • Speed at Last Split (km/h or mph) • Last Split Time • Speed at Start (km/h or mph) • Speed at Finish (km/h or mph) • Split Time 1-6 • Speed at Split 1-6 (km/h or mph)

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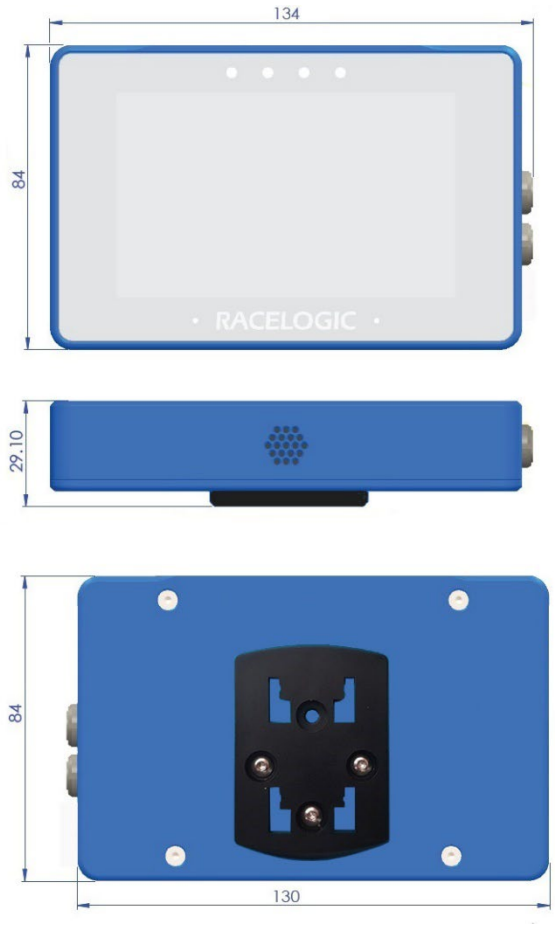
Environmental and Physical:

Environmental and Physical	
Input Voltage	6 – 30 V DC
Power	< 7W, powered using the supplied power cable
Operating Temperature	-20°C to +60°C
Storage Temperature	-20°C to +80°C
Size (rounded)	134 x 84 x 29 mm
Weight	313 g (with plastic mount connector)

Touch Screen	
Size	4.3” TFT Capacitive Touch
Resolution	480*800 pixels
TFT LCD Display Colours	262K colours (18 Bit)

Mounting
Richter mounting system or ¼” 20TPI UNC



Package Contents:

Description	Product Code
1x MFD Touch	VBMFDT
1x VBOX to VBOX Module Cable (2 m)	RLCAB005-C
1x Windscreen Suction Mount	RLACS331
1x 8 GB SD Memory Card	RLACS313