

Castle Creations Inc. Releases NEXT GENERATION PERFORMANCE ESC for R/C Surface Markets



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Olathe, Kansas, December 9, 2016 (Newswire.com) - Castle Creations Inc., the leader in electronic speed controllers (ESC) and BLDC motors for radio controlled (R/C) car, air, and multi-rotor hobby markets, as well as commercial UAV and drone markets, is proud to announce their new flagship surface product, the **MAMBA X EXTREME 1:10 SCALE WATERPROOF ELECTRONIC SPEED CONTROL**.

Castle Engineers sought to address three main concepts while designing a new ESC for the modern day RC enthusiast; **VERSATILITY, RELIABILITY, and PERFORMANCE**. These are the pillars of the Mamba X design and the driving forces behind the feature-packed controller.

The Mamba X is extremely versatile, capable of powering a wide variety of applications ranging from 2S to 6S LiPo and vehicles ranging from 1:10th scale to 1:8th scale^[1]. This ESC can handle track turns in a 2wd buggy, bashing through muddy puddles in an SCT or monster truck, and even navigating a hardcore crawling excursion in a scale rig.

The Mamba X is housed in a **RUGGED CNC-machined aluminum case** and then potted in waterproof epoxy. This not only protects the electronics but ensures any heat generated in the controller can easily be dissipated through the case. The Mamba X can **POWER THROUGH** extreme jumps, accidental collisions, and splashes through the occasional puddle.

The **HIGH PERFORMANCE** Mamba X includes an **8A ADJUSTABLE BEC** and can push the most extreme **1:10th scale setups and 1:8th scale** 1st race buggies. **SMARTSENSE™** allows users to take advantage of smooth, cog-free, and predictable sensed starts, and Castle's new and improved throttle response keeps you ahead of the competition.

- 2S to 6S input voltage range
- Sensed Motor Support
- Waterproof ESC and Switch
- Rugged CNC Aluminum Case with Integrated Capacitors

- Castle Link Programming Support
- Data Logging
- 54.4mm x 35.2mm x 30.0mm (w/fan) and 101 grams, potted
- Telemetry capable with Castle Telemetry Devices and Compatible Transmitters
- Integrated 4mm Bullet Connectors and 12 AWG Power Wires
- Removable 30mm ESC Cooling Fan
- SMARTSENSE
- Audible Alerts

EXCLUSIVES FEATURES OF THE MAMBA X INCLUDE:

SMARTSENSE™

Enabled by default, the Mamba X uses the motor's sensors to provide smooth starts, excellent torque, and low-speed drivability. Once the motor is turning, it seamlessly transitions to Cast **ULTRA-EFFICIENT** sensorless mode with ELECTRONIC TIMING. When running, a motor must transition between different load points and a different timing advance is required for optimal efficiency at each. Electronic timing in SMARTSENSE™ will advance timing automatically for peak performance during all driving conditions. This combines the best of both worlds in an unrivaled **HYBRID** between smooth sensed startups and high-efficiency sensorless running. This makes the Mamba X system produce more power and less heat.

DATALOGGING

The Mamba X captures and **RECORDS PERFORMANCE DATA** and allows users to view a detailed turn-by-turn record of what the ESC actually experienced during a run. Users can record real-time data such as motor RPM, battery current and voltage, ESC and motor temperature, throttle input, and more. Download and analyze the collected data via Castle Link and make adjustments to maximize both performance and battery life.

AUXILIARY WIRE FUNCTIONALITY

The Mamba X allows "**ON-THE-FLY ADJUSTMENTS**" to be made through the **AUXILIARY WIRE**. Once enabled in Castle Link, users select a particular function such as torque control, max throttle, max brake or drag brake adjustment and that setting can then be easily tuned from their transmitter **WHILE DRIVING**.

CASTLE-LINK™

For nearly 20 years, Castle engineers have been setting the bar for industry leading software functionality. The Castle Link Programming Suite is the ticket to creating the perfect setup. To gain access to the host of tuning parameters, a redeemable coupon is enclosed with the Mamba X purchase for the Castle Link adapter.

The Mamba X is PROUDLY DESIGNED AND MANUFACTURED IN OLATHE, KANSAS, and is backed by Castle Creations' 1-year warranty and unparalleled 'make-it-right' customer support.

[1] In 1/8th scale setups, the Mamba X is intended to be used for off-road racing in buggies weighing up to 9 lbs. (including batteries and ready-to-run). In these 1/8th scale racing setups the Mamba X should be run at 4S Lipo (16.8V) max and is recommended to be paired with the Castle 1512-1800Kv (P/N: 060-0062-00) or Castle 1512-2650Kv (P/N: 060-0061-00) motor, with appropriate gearing only.

Source: Castle Creations Inc.

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