

Castle Creations Inc. Releases 1:8 SCALE E-BUGGY COMBOS for R/C Surface Markets



Olathe KS, August 21, 2017 – 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 new power systems for the 1:8 scale off-road racing segment, the **MAMBA X 1:8 SCALE E-BUGGY EDITIONS**.



The pillars of the Mamba X design and the driving forces behind the feature-packed controller were **VERSATILITY, RELIABILITY, and PERFORMANCE**. We have combined the brute power of our 1515 1Y 2200Kv and 1512 1.5Y 1800Kv sensored motors with the Mamba X ESC to bring racers an unprecedented experience on the track. These duos will perform when you are looking to up the power, without the weight, on your 1:8 scale E-Buggy.

Coming in at just 101 grams (3.56 oz) the **ROAR APPROVED** Mamba X ESC packs features that will advance your game as a beginner or an expert on the track. You will **POWER THROUGH** extreme jumps and accidental collisions as the ESC 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. Combined with the **IMPROVED 4-POLE 12-SLOT** design of the sensored **1512 1.5Y 1800Kv (ROAR APPROVED)** and **1515 1Y 2200Kv (Awaiting ROAR approval)** motors, you will experience **PRECISE THROTTLE CONTROL** and **BUTTERY SMOOTH** starts, plus the **RAW POWER** and **LONGER RUN TIMES** that these highly efficient motors produce.

CASTLE'S INDUSTRY LEADING SOFTWARE is the ticket to creating a perfect setup, even before you hit the track. Our latest firmware versions were developed with the top-level racer in mind. They offer unparalleled performance and drivability that will leave the competition in the dust. They also offer useful features to assist in getting the most out of your setup. The Mamba X captures and **RECORDS PERFORMANCE DATA via the DATA LOGGING** function and allows users to view a detailed record of what the ESC actually experienced during a run. Gearing your 1:8th E-Buggy will be a breeze as the data logging will measure and record the internal temperature of both the ESC circuit board and the motor to give you the most accurate analysis of gearing changes, allowing maximum optimization of both performance and battery life. There is no need to carry a temp gun around anymore.

Dialing in to the track has never been so simple with the “**ON-THE-FLY ADJUSTMENTS**” to be made through the **AUXILIARY WIRE** on the Mamba X ESC. Once enabled in Castle Link, you can fine-tune your car speed to the track you’re on using the **MAX POWER AUXILIARY WIRE MODE**. This setting, and several more, are easily accessed right from your transmitter in **REAL TIME, WHILE DRIVING!** The advantages of being able to adjust

your car speed while on the track, without having to physically change gearing, will result in more confidence on the track, despite its condition.

The CASTLE sensored motors will catapult your competitive advantage with the use of **SMARTSENSE™** and **QUIETSENSE™ TECHNOLOGY**. SMARTSENSE™ is enabled by default in the Castle programming suite, and will use the motor's sensors to provide smooth starts, excellent torque, and low-speed drivability. Once the motor is turning, it seamlessly transitions to Castle's **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 sensored startups and high-efficiency sensorless running. This makes the Mamba X system produce more power and less heat, which are two ingredients every racer knows to be beneficial.



QUIETSENSE™ describes an innovative advancement in the design of sensored motors. It shields the sensors from magnetic field noise through the use of a **FLUX SHIELD™** in conjunction with secondary Sense Magnets delivering even **HIGHER PRECISION** and **MORE EFFICIENT** startups. In the end this remarkably robust design, combined with the indisputable leading software functionality that Castle engineers are known for, makes for the ultimate powerhouse for your 1:8th scale E-Buggy.

The **MAMBA X 1:8 SCALE E-BUGGY EDITION** combos have an MSRP of \$255, making these feature rich power plants a total win, on or off the track.

MAMBA X 1:8 SCALE E-BUGGY EDITION SPECIFICATIONS

For use in 1:8th Scale E-Buggies weighing up to 9lbs., running 3-4s, geared accordingly.

MAMBA X ELECTRONIC SPEED CONTROLLER

- ROAR Approved (1.82 SW Version)
- Wide 2S-6S input voltage range (3-4S LiPo MAX w/1512-1800KV and 1515-2200KV MOTORS)
- Sensored Motor Support with SMARTSENSE™
- 3.56 oz. (101g)
- Length: 2.14" (54.4mm) Width: 1.39" (35.2mm) Height: 1.18" (30.0mm)
- Waterproof ESC housed in a Rugged CNC Aluminum Case w/Integrated 4mm Gold-Plated Bullet Connectors
- 8A adjustable BEC (5.25V-8.0V)
- Castle Link Programming Support featuring Data logging, Auxiliary Mode, continuous firmware updates and adjustable settings such as Throttle, Braking Curve, and Auto LiPo Cutoff.
- 12 AWG high strand count, silicone coated copper power wires
- Removable 30mm ESC Cooling Fan
- Replaceable Motor Sensor Harness
- Audible Alerts for carious issues and error conditions. (includes start fail, sensors lost, motor over-temperature, radio glitch and more)

1512 1Y 1800KV and 1515 1Y 2200KV SENSORED MOTOR

- 4-POLE 12-SLOT Rebuildable Design
- QUIETSENSE™ Technology
- ROAR Standard Sensor Port and Labeled Connections
- High-Performance 0.2 mm Steel Lamination Stacked Stator
- High-Strength Kevlar Wrap
- High-Strength, 180° C Grade, Neodymium Sintered Magnets
- Oversized, Low-Resistance, Gold-Plated Solder Tabs
- Oversized NMB Bearings
- M3 and M4 @ 25mm Mounting Hole
- 4mm male Castle Bullet Connectors
- 210mm length Sensor Wire
- 1512-1800KV is ROAR MOD Approved
- 1515-2200KV is pending ROAR MOD Approval

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.