



Product #: 010-0155-09



Mamba X

### Putting the X in Extreme!

The Mamba X Crawler edition is our latest offering for the crawling crowd. We have taken our new 1406 low kv crawler motors and paired it with the high power, ultra reliable Mamba X ESC. This combo is ideal for low speed crawling or trail running in vehicles weighing up to 9lbs on 2s to 4s; it can also be used in more aggressive setups like rock racing and extended hill climbing on vehicles up to 5lbs. Your ESC will come with our new V2.02 firmware that has been enhanced for rock crawling and sensored operation.

#### The Auxiliary Advantage.

Mamba X features the addition of a new, programmable Auxiliary Wire that allows you to make "on-the-go" adjustments to several settings such as torque control, and max throttle, and fine-tune the performance of your ESC right from the transmitter using an auxiliary channel on the receiver. The AUX wire function is disabled by default but is programmable via Castle Link. Once you have programmed the functionality of the AUX wire, that setting can then be adjusted on-the-go from a compatible transmitter. Try out the brand new Crawler Mode for incredible versatility!

#### Telemetry Capability

The Mamba X is telemetry ready, which means owners of Futaba T4PX Transmitters will be able to purchase the Castle Telemetry Link for S.BUS2. Real-time data such as ESC temperature, voltages, and RPM can be monitored to ensure performance advantages and spare you the "unknown" parameters that all R/C enthusiasts experience at some point. Telemetry data provides another level of protection and can increase performance.

#### Package Includes:

- Mamba X Electronic Speed Controller
- 1406-2280kv sensored brushless motor
- 210mm length sensor wire (for sensored operation)
- Castle Sensor Harness adapter
- Coupon for free Castle Link USB adapter
- Driver's Ed and Quick Start Guides
- Castle decal sheet

Waterproof : Yes  
Telemetry Capable : Yes  
Data Logging : Yes  
Auxiliary Wire : Yes  
Minimum Input Voltage : 2S  
Maximum Input Voltage : 4S  
Sensored Capable : Yes

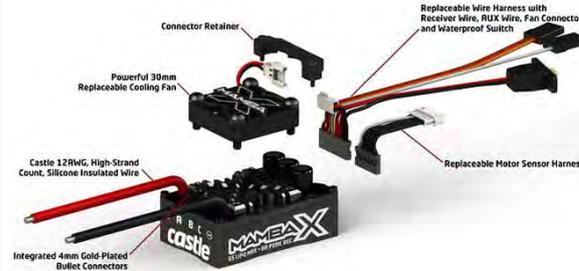
potted in waterproof epoxy. This not only protects the electronics but ensures any heat generated in the controller can easily be dissipated through the case.

The high performance Mamba X includes an integrated and powerful 8A adjustable BEC and can push the most extreme 1/10th scale setups and 1/8th scale\* race buggies. SmartSense™ allows you 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.

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. Call us, email us, or walk in our front door – we're here to help.

Features:

- Wide 2S to 6S input voltage range
- Sensored Motor Support (Castle X-Series Sensor Harness Included)
- Waterproof
- 8A Adjustable BEC (5.25V-8.0V)
- Data-logging
- Rugged CNC Aluminum Case
- Castle Link Programming Support
- SmartSense™
- Integrated Capacitors
- Removable 30mm Cooling Fan
- Integrated 4mm Bullet Connectors
- 12 AWG Power Wires
- Waterproof Switch
- Audible Alerts



The Mamba X has an exclusive set of features that allow you more control and flexibility than ever before:

#### 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 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 sensed startups and high-efficiency sensorless running. Your motor will produce more power and less heat.



#### Castle Link Compatible

With the [Castle Link USB Programming Kit](#) you can use your Windows™ PC to easily program your controller. Adjustable settings include:

- Auto LiPo cutoff
- Motor direction
- Drag brake
- Reverse type
- Motor type
- Punch Control
- Brake curve
- And many more.

Additional Castle Link benefits include:

- Access to all firmware updates, including added features sets released from Castle Engineering, at no charge.
- Intuitive Demo Mode capability
- Ability to save setup profiles for later use