

ABOUT THE MAMBA XLX2

Motors	Please note that while the Mamba XLX2 is capable of handling incredible amounts of power, your motor must also be up for the task. Always run your motor within the manufacturer's specs. Monitor motor, battery, and controller temps carefully and never let the motor get above 100° C (212° F). Excessive heat in the motor can damage the motor, the Mamba XLX2, and the batteries.
Gearing	Always start with stock gearing. If you wish to change the gearing, motor, or battery, check your motor temperature often on the first run. If the motor gets too hot, increase the spur size, reduce the pinion size, or reduce the pack voltage.
Programming	The Mamba XLX2 is programmable via transmitter (see <i>Driver's Ed Guide</i>) or settings may be programmed via computer with a Castle Link USB adapter (coupon for free adapter included in package). Program with a mobile device using a Castle B•Link Bluetooth® Adapter (sold separately) or using a Castle Field Link Portable Programmer (sold separately). You must disconnect the AUX WIRE prior to connecting your ESC to the Castle Link USB adapter to avoid damage to the USB adapter. See the Drivers' Ed Guide for more instructions on transmitter programming and the Castle Link system (" <i>Tuning with Castle Link</i> " and " <i>Transmitter Programming</i> ").
Data Logging	The Mamba XLX2 features data logging. You will be able to measure and record important power system information during your race, turn-by-turn. After your run, you can download and analyze this log using Castle Link. You will be able to inspect many parameters including battery voltage, motor RPM, ESC temperature and more. Additional information about using the data logging features can be found in the Driver's Ed Guide (" <i>Data Logging</i> ").



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Product Support: castlecreations.com/contact-support

Service: castlecreations.com/contact-service

Website: www.castlecreations.com

MAMBA XLX2

EXTREME 1:5 SCALE WATERPROOF ELECTRONIC SPEED CONTROL

QUICK START GUIDE



OVERPOWERING RC SINCE 1997

castle

MAMBA XLX2 SPECIFICATIONS

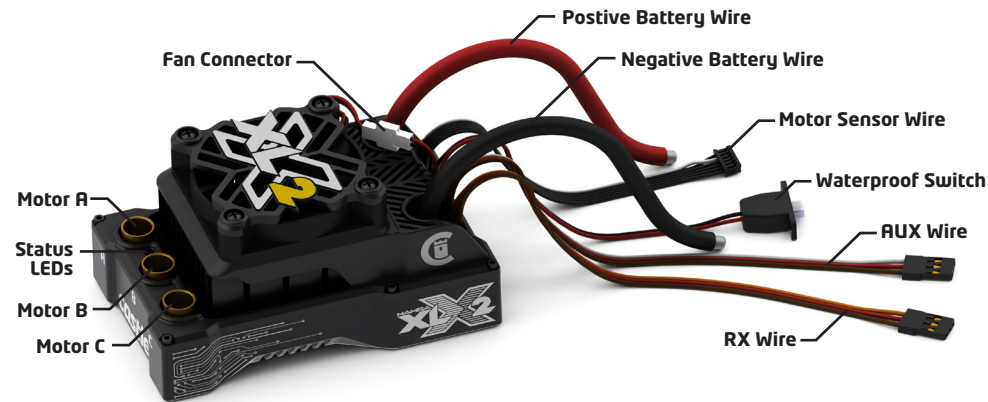
Application Guidelines	1/5 th scale RC Hobby vehicles weighing up to 42lbs.
Input Voltage Range	Min: 3S LiPo, Max: 8S LiPo, 33.6V
BEC Specifications	Adjustable from 5V to 8.5V (20A peak), default 5.5V.
Sensors	Yes, with pre-installed Direct Connect Sensor Wire (dust cover included in package).
Product Use Statement*	<ul style="list-style-type: none"> • Applying voltages higher than 33.6V will cause irreparable damage to your controller. • WARNING: You must disconnect the AUX wire from your radio before connecting to Castle Link. Failure to do so may result in damage to your Castle Link and/or computer. • The Mamba XLX2 is a high-performance controller; you must use high-discharge cells in your high-performance application to ensure vehicle performance (see <i>Driver's Ed Guide</i>, "<i>A Word About Batteries</i>"). • The Mamba XLX2 requires the use of connectors designed for 150+ amps continuous. Ex. Castle 6.5mm polarized or 8mm bullet (<i>Driver's Ed Guide</i>, "<i>Connectors and Power Wiring</i>"). • The Mamba XLX2 is not intended for human or animal propulsion.

*Failure to adhere to the Product Use Statement constitutes a violation of the warranty agreement, and will result in non-warranty service fees to repair or replace damaged products.

GETTING STARTED

1. Solder a high quality battery connector to the ESC (see *Driver's Ed Guide "Connectors and Power Wiring"*).
2. Mount the ESC and motor into the vehicle.
3. Connect motor to the ESC (see *Driver's Ed Guide, "Motor Wiring"*).
4. Plug in the RX wire into throttle (#2) and AUX wire into auxillary (#3/#4).
5. Calibrate your ESC to your radio. (See below).

YOU ARE NOW READY TO GO!



THROTTLE CALIBRATION

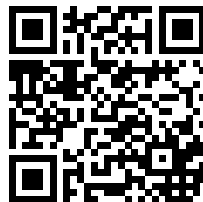
1. Radio on, battery plugged in, ESC off.
2. Hold full throttle, turn ESC on (green LED).
3. When red LED flashes, go to full reverse.
4. When yellow LED flashes, go to neutral.
5. Armed and ready!

DRIVER'S ED GUIDE

For more detailed information regarding Getting Started, Throttle Calibration, using Castle Link, or Transmitter Programming, please read the Driver's Ed Guide by visiting:

www.castlecreations.com/MambaXLX2DEG

Or scan this QR code with your smart device to open the link.



RECEIVER CONNECTION

RX Wire	Plug the RX wire into the throttle (#2) channel on your receiver.
AUX Wire	The AUX wire allows you to adjust a setting "on-the-fly" using an auxiliary channel on your receiver. The AUX wire function is disabled by default and is programmable via Castle Link. Plug this wire into the auxiliary (#3/#4) channel on your receiver. <i>! You MUST connect the AUX wire to an open channel on your receiver even if you are not using the Auxiliary function.</i>

TRANSMITTER PROGRAMMING REFERENCE

1. Brake/Reverse Type <ul style="list-style-type: none"> • With Reverse* • Without Reverse • Crawler Reverse 	3. Brake Amount <ul style="list-style-type: none"> • 25% • 50%* • 75% • 100% 	5. Motor Type <ul style="list-style-type: none"> • Brushless* • Brushed Reversing
2. Voltage Cutoff <ul style="list-style-type: none"> • Auto-Lipo* • None 	4. Drag Brake <ul style="list-style-type: none"> • Disabled* • 10% • 20% • 30% • Crawler Full On 	6. Motor Direction <ul style="list-style-type: none"> • Normal* • Reverse

*Default Setting

AUDIBLE ALERT REFERENCE

• •	Start Fail
• -	Low Voltage Cutoff
- •	Over-Current
• • •	Sensors Lost
• • -	Radio Glitch
• - •	Over-Temperature
• - -	Excessive Load
- • •	AUX Wire Radio Glitch
- • -	BEC Over-Temperature
• • • •	Data Log Full Warning
- - •	Motor Over-Temperature