





(913) 390-6939 

CCorders@castlecreations.com 

540 North Rogers Rd. Olathe, KS 66062 

PRESS RELEASE

February 2, 2024 - We're thrilled to introduce the Cobra 8, our next generation electronic speed controller (ESC) for surface applications. As the inaugural product in a new line, the Cobra 8 is engineered with cutting-edge technology tailored specifically for 1:8th scale vehicles.



The Cobra 8 boasts a state-of-the-art 32-bit dual-core processor, ushering in a new era of precision and performance. Its enhanced data logging capabilities offer extended recording times, faster sampling rates, and a wealth of data points, enabling users to delve deeper into their vehicle's performance than ever before.

Crafted with a CNC aluminum bottom case, the Cobra 8 is engineered to endure the most rigorous conditions, ensuring reliability in every race or off-road adventure.

One of its defining features is our acclaimed CRYO-DRIVE™ technology, engineered to reduce operational temperatures, significantly prolonging the ESC's lifespan. Moreover, equipped with an impressive 8-amp BEC, the Cobra 8 can effortlessly power the most demanding servos, making it an indispensable ally in your high-performance setup.

We've packaged the Cobra 8 with three different Castle 4 -POLE 12-SLOT motor options to overpower a wide range of 1:8th scale vehicles.

Cobra 8 Key Features:

- 32-Bit Processing power for smoother motor control and improved response time.
- Improved thermal performance with CRYO-DRIVE™ technology.
- Enhanced Data Logging includes:
 - Double the maximum sample frequency of older generations.

- 8x increased logging time of older generations.
 - Data point for ESC electrical motor timing.
 - Data point for acceleration via onboard accelerometer.
 - Looping feature prevents interruptions in data log recording.
- Additional tuning features include:
 - Improved braking adjustability
 - Separate brake and reverse curves
 - Highly adjustable internal BEC. (5.0V - 8.0V adjustable in 0.1V increments)
- Auxiliary wire functionality for "on-the-fly" adjustments using transmitter.
- Sensored Only, Brushed and SmartSense™ Running Modes
- Access to tuning options and firmware updates for free with Castle Link V4 USB programmer included with purchase. Now with USB-C connector! (Requires Windows 10 or higher)
- Audible alerts for easy diagnosis of common issues such as motor-over-temperature and low-voltage cutoff.
- ESC is housed in a rugged CNC aluminum case and potted in waterproof epoxy to protect the electronics and promote efficient heat transfer.
- Mounting holes located in bottom of aluminum case for installation into vehicle.
- The COBRA 8 is proudly designed and manufactured in Olathe, Kansas USA and backed by the Castle Creations one-year warranty.

ITEM INFORMATION		
Item Number	Description	UPC
010-0172-00	COBRA 8 ESC, 25.2V ESC	819326012846
Perfect upgrade for 1:8 scale buggies, truggies and on-road vehicles as well as 1:10 scale monster trucks weighing up to 15 lbs.		
010-0172-01	COBRA 8 25.2V ESC WITH 1512-1800KV SENSORED MOTOR COMBO	819326012938
Capable of 2S to 4S LiPo and ready to overpower 1:8th scale off-road and on-road vehicles as well as 1:10 scale 4WD SCT up to 9 lbs.		
010-0172-02	COBRA 8,25.2V ESC WITH 1512-2650KV SENSORED MOTOR COMBO	819326012945
Capable of 2S to 4S LiPo and ready to overpower 1:8th scale buggies and on-road cars weighing up to 9lbs (with batteries, ready-to-run) as well as 1:10th scale monster trucks.		
010-0172-03	COBRA 8, 25.2V ESC WITH 1515-2200KV V2 SENSORED MOTOR COMBO	819326012952
The 1515-2200KV combo is incredible in monster trucks with up to 6S LiPo packs (4S LiPo is the sweet spot), and works great in 1:8 scale buggies, truggies and on-road vehicles as well as 1:10 scale monster trucks weighing up to 15 lbs.		

TECHNICAL SPECIFICATIONS	
Input Voltage ESC:	MIN: 2s LiPo, MAX: 6sLiPo 25.2V
Size:	2.36" x 2.04" x 1.69"
Weight:	165.6 g / 5.84 oz
BEC Voltage:	5.0V - 8.0V adjustable in 0.1V increments; (8A Peak); default 5.5V
Wire and Connectors:	6.5mm female bullets; matching 6.5mm male bullets required.
Running Modes:	SmartSense™ Brushless, Sensored Only, Brushed
Cooling Fan:	Yes, temperature controlled
Items Needed for Operation:	A high current connector designed for high-powered electric systems, rated for 120+ amps, such as Castle CC Bullet 6.5mm, CC Bullet 8.0mm, or 6.5mm Polarized Castle Connectors, soldered to the battery leads.
Product Use Statements:	Remove cooling fan prior to driving in wet conditions, it is not waterproof.
Application Guidelines:	For 1:8 th scale vehicles weighing up to 15lbs. Not intended for drag racing applications.
Cobra 8 Purchase Includes:	Cobra 8 ESC with 300mm direct connect sensor wire, Cobra Decals, Castle Link V4 USB Adapter, Cobra Quick Start Guide