







10TH SCALE ESC COMPARISON			
PRICE	\$	\$\$	\$\$\$
	<p>The SIDEWINDER 4 SPORT 1:10 SCALE ESC builds upon Castle's most popular product family, SIDEWINDER 1:10 SCALE SERIES. Smoother sensorless startups and enhanced drag brake functionality make the SW4 highly versatile, a great stock upgrade in a wide variety of 10th scale vehicles weighing up to 6.5 lbs. ready-to-run. It's the first of its kind to run CRYO-DRIVE™, a combination of hardware and software enhancements to increase thermal performance. COOLER TEMPS mean LONGER RUNS and MORE POWER in your Sidewinder 4 setup. If pro-level performance, American-made quality and an affordable price is what you're looking for, Sidewinder 4 has you covered!</p>	<p>The COPPERHEAD 10 PERFORMANCE 1:10 SCALE ESC is ideal for those who desire higher efficiency and improved optimization for their 10th scale stock upgrade or build. Copperhead 10 will transform R/C vehicles up to 7.5 lbs. ready-to-run, from dull to dangerously fun. Striking in appearance, its straightforward setup and ease of use will have users simply spending more time enjoying their wheel time. A robust hardware design that includes a 6A peak BEC and proprietary software features such as CRYO-DRIVE™ keep the Copperhead cool and free of brownouts. The smooth low end power doesn't miss a beat when you need to leave 'em in the dust!</p>	<p>The MAMBA X EXTREME 1:10 SCALE ESC, our flagship surface product, is an incredibly robust and high-performance 2s-6s controller. Encapsulated in a rugged yet lightweight CNC aluminum case, it is suited for operation in a wide variety of 1/10th scale vehicles and 1/8th scale off-road buggies weighing up to 9 lbs., ready-to-run. Premier features include a programmable auxiliary wire for on-the-go setting adjustments via transmitter, and ten data logging parameters that will aid in fine-tuning adjustments to increase performance and battery life in all setups. The MAMBA X truly has all of the ingredients to OVERPOWER.</p>
APPLICATION	1/10TH SCALE VEHICLES WEIGHING UP TO 6.5 LBS. READY-TO-RUN.	1/10TH SCALE VEHICLES WEIGHING UP TO 7.5 LBS. READY-TO-RUN.	1/10TH SCALE VEHICLES AND 1/8TH SCALE OFF-ROAD BUGGIES WEIGHING UP TO 9 LBS., READY-TO-RUN.
SENSORED CAPABLE	N/A	YES TM	YES
DATA LOGGING	N/A	DATA LOGGING LITE BATTERY VOLTAGE, BATTERY RIPPLE, CONTROLLER TEMP, MOTOR RPM, MOTOR TEMP	YES
AUXILIARY WIRE	N/A	N/A	YES
INPUT VOLTAGE	2s-3s	2s-4s	2s-6s

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INTERNAL BEC	FIXED: 5.0 VOLTS (2A PEAK)	SELECTABLE: 5.5V OR 7.5V (6A PEAK)	ADJUSTABLE: 5.5V, 6.0V, 7.5V OR 8.0V (8A PEAK)
AUXILIARY WIRE	N/A	N/A	YES
CRYO-DRIVE™	YES	YES	N/A
PROGRAMMING OPTIONS	CASTLE LINK WINDOWS SOFTWARE AND CASTLE LINK USB ADAPTER, FIELD LINK CARD (LIMITED PROGRAMMING OPTIONS) OR WIRELESSLY WITH CASTLE B-LINK™ ADAPTER AND CASTLE LINK ANDROID OR IOS APP.		
COUPON INCLUDED?	N/A	YES, REDEEMABLE FOR FREE CASTLE LINK USB ADAPTER OR \$10 FIELD PROGRAMMING CARD	
SIZE (LxWxH) & WEIGHT	2.08" x 1.50" x 1.28" 64 g / 2.26 oz	2.19" x 1.39" x 1.33" 70.9 g / 2.50 oz	2.14" x 1.39" x 1.18" 101 g / 3.56 oz
CONSTRUCTION	WATERPROOF DESIGN, POTTED IN DURABLE INJECTION MOLDED CASE WITH 30MM REMOVABLE FAN.	WATERPROOF DESIGN, POTTED IN DURABLE INJECTION MOLDED CASE WITH 30MM REMOVABLE FAN AND DUAL USE FAN GUARD.	WATERPROOF DESIGN, POTTED IN RUGGED CNC ALUMINIUM CASE WITH TEMPERATURE REGULATED 30MM REMOVABLE FAN.
RUNNING MODES*	SENSORLESS BRUSHLESS AND BRUSHED MOTOR OPERATION	SMARTSENSE™, SENSORED ONLY; AND BRUSHED MOTOR OPERATION	
RECOMMENDED MOTORS**	14 SERIES (1406, 1410, 1412, 1415)	14 SERIES (1406,1410,1412, 1415) TM	14 SERIES (1406,1410,1412,1415) 15 SERIES (1515-2200, 1512-1800)
TELEMETRY COMPATIBLE	YES, REQUIRES PURCHASE OF TELEMETRY LINK FOR S.BUS2 (ITEM # 010-0152-00) AND COMPATIBLE FUTABA TRANSMITTER		
SERVICABLE ITEMS	ESC COOLING FAN	ESC COOLING FAN, RECEIVER HARNESS, SENSOR HARNESS	ESC COOLING FAN, RECEIVER HARNESS, WIRE HARNESS RETAINER, SENSOR HARNESS
* SMARTSENSE™ MODE REQUIRES USE WITH A CASTLE SENSORED MOTOR WITH ESC ** APPROPRIATE GEARING AND INPUT VOLTAGE REQUIRED			