

15 TIME IFMAR WORLD CHAMPIONS



Brushless Speed Controllers



Brushless Motors



Batteries



Chargers



Digital Servos



Nitro Engines

2016

ENGINEERED PERFORMANCE. RACE PROVEN.

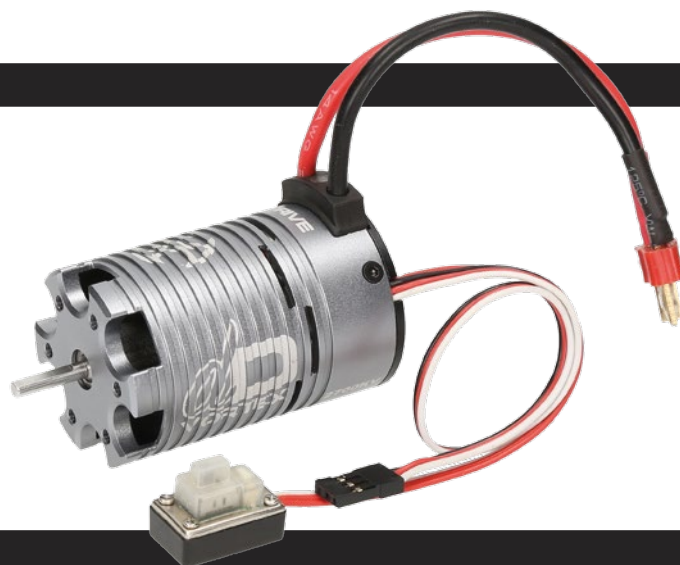
## Team Orion - a success story since 1987 Engineered Performance. Race Proven.

Innovation is part of every Team Orion product. Matching batteries, revolutionizing the electric motor design with the V2 technology, providing Lipo batteries compatible with the market demands and bringing the CRF technology to nitro engines; Team Orion's goal is to develop products which are more attractive, have better performance and contained costs. Worldwide success proves we are on the right track. In 1987, after returning from the world championships in USA, Philippe Neidhart began matching cells using LavCo battery testing equipment.

A new era had begun in the RC industry. Team Orion was born and quickly imposed itself as the battery specialist, winning several world championships. In 1997 Oscar Jansen joined the company and in 2007 it was Adrien Bertin. This further increases the technical know-how of the company and ensures that Team Orion remains at the peak of technology. Today, Team Orion is a multinational company and its products are synonym of performance, high quality standards and Swiss technology.

## High-end electric motors World Champion Designers

Team Orion has been producing high-performance electric motors since 1997. When we introduced the V2 brushed motor technology, our innovative design vastly improved brushed motors performance and won the following world championships. In the brushless motor field, we strive to do the same, constantly pushing the limits of design and performance. Our VST2 competition brushless motors are another great example of our capacity to innovate. We regularly upgrade our motor and ESC designs so that they keep supplying peak performance, year after year. Combined with our R10.1 Pro and R8.1 Pro ESC, the VST2 range of motors forms the ultimate propulsion system.



## Charger innovations Redefining charger design

Our Advantage Touch chargers feature a unique case design, a LCD touch screen and a state of the art touch interface allowing both ease of use and high customization.



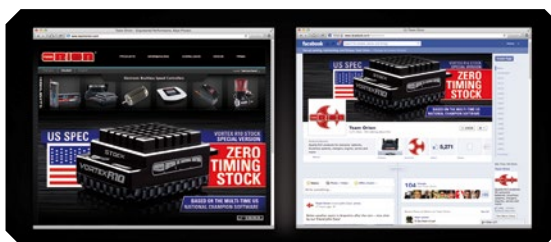
## Battery innovations First hard case LiPo batteries

Team Orion was the first company to offer Lithium Polymer cells protected by a robust carbon look hard plastic case, effectively protecting the cells from mechanical damage. The beginning of a very successful range of car LiPo batteries



Team Orion Headquarters in Geneva/Switzerland

## Team Orion Website [www.teamorion.com](http://www.teamorion.com)



Visit our [www.teamorion.com](http://www.teamorion.com) website to learn about our latest product releases and get the latest news and racing results. Our Facebook fan page [www.facebook.com/teamorion](http://www.facebook.com/teamorion) already has more than 11'000 fans!



### Propulsion innovations Backed-up with patents

Drivers using Team Orion products have won numerous races around the world. Whether it's on-road or off-road, electric or nitro, we have a race winning product for you. Team Orion is always at the forefront of innovation and performance!



The CRF crankshaft features an angled crankshaft port which accelerates the fuel mixture. The unique design is protected with patents (EP 1 787 018) .



The World Championship winning Vortex R10 Pro ESC was the first ESC featuring a dual sensor port.

### 7 US National Titles Seven National Titles in one year



Our drivers, Ryan Cavalieri (4), Ryan Maifield (2) and Dakotah Phend (1) have won a total of seven US National Titles in 2015!

### 15th World Championship Title Spencer Rivkin wins at the Worlds



Young upcoming US driver Spencer Rivkin won the 2015 IFMAR 2wd World Championships in Japan using the Touch Duo charger!

### 15 IFMAR World Championship titles in total! In off-road, on-road, nitro and electric classes!

1994 David Spashett	1994 Masami Hirosaka	1995 Mark Pavidis	1995 Matt Francis	1996 Mike Swauger	1999 Jukka Steenari	2002 Jukka Steenari	2004 Marc Rheinard
							
2006 Andy Moore	2010 Cody King	2011 Ryan Cavalieri	2011 Ryan Cavalieri	2012 Jilles Groskamp	2013 Jared Tebo	2015 Spencer Rivkin	
							



## Vortex dDrive Power Unit 2-in-1 Sensorless ESC & Motor

**NEW**

We have all experienced the excitement of running with a new car for the first time. At first the experience is great but quickly the idea to increase the car's power and speed comes to mind. When you're not an expert, it's not an easy task, you need to find a motor that fits your car and then an ESC that not only fits your car but is compatible with the motor you chose. Even after you have crossed that hurdle you still have to understand how to install your new motor and ESC in the car. The 2-in-1 Ddrive power unit does away with the most cumbersome aspects of improving your car's performance. The motor and ESC are fitted inside a single aluminum case. Once you have removed your old motor and ESC and installed the Ddrive, you only have to connect the receiver plug to your car's receiver and the battery connector to the battery, it doesn't get simpler than that.

The dDrive uses our world champion winning Vortex brushless motor technology and is available in two speeds 2700Kv or 3000Kv. The Ddrive is recommended for use with regular sized On-Road and Off-Road 1/10 scale cars.

### TECHNICAL SPECIFICATIONS

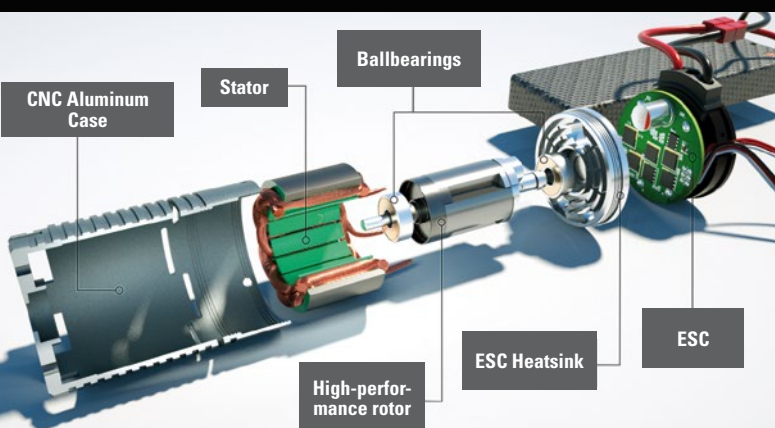
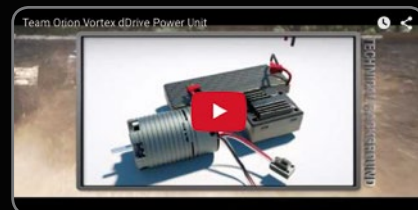
Speed		
RPM/V	3000KV	2700KV
Poles (Motor)	4	4
Current (ESC)	45A	45A
Input	6-7cell NiMH/2S LiPo	6-7cell NiMH/2S LiPo
Connectors	Deans/JR	Deans/JR
Dimension	D36xL58mm	D36xL58mm
Shaft	D3.175xL15.0mm	D3.175xL15.0mm
Weight	217g	221g
Part#	ORI28314	ORI28313

- 2-in-1 motor & ESC combo for 1/10 scale cars
- Vortex Sensorless Brushless Technology
- Intelligent compact design for easy installation
- Designed for 2S LiPo and 6-7 cell NiMH
- 45A ESC
- 4 pole motor
- Aluminum case
- Forward/brake and forward/brake/reverse function modes
- Deans type connector
- Low voltage cut-off system for battery protection
- Status control by LED and audio tone
- User adjustable settings
- Plug&Play no soldering required

**VORTEX**  
**dDRIVE**  
INTELLIGENT MOTOR SYSTEM

### HOW IT WORKS

Watch the video  
[bitly.com/ddrivevid](http://bitly.com/ddrivevid)



A brand new ESC and motor design was created to fit all of the components inside a single aluminum case.



Plug & play, connect the single power connector to the battery and you are ready to go. No extensive wiring and installation required.





## Vortex VST2 Pro Mg Lightweight Motors with Magnesium Case for 1/10 and 1/8 Cars

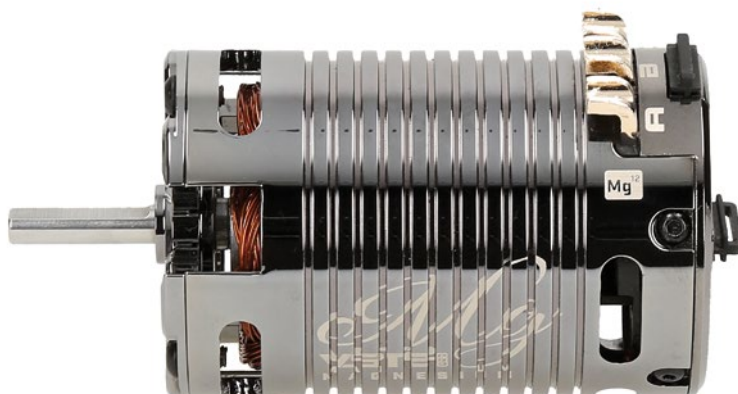
**NEW**

The new Vortex VST2 Pro Mg motor case is made out of magnesium! In our quest to save weight, using magnesium for our VST 2 Pro competition motors was a natural choice. Magnesium is 33% lighter than aluminum with similar or superior mechanical characteristics, it widely used in automotive racing, aircraft and spacecraft manufacturing, a true space age material. Reducing weight is beneficial to the car's handling and the motor makes up a good part of the car's total weight. The Vortex VST2 Pro Mg is manufactured using the world championship winning VST2 Pro technology and features the latest developments in brushless motor technology. This motor is the obvious choice for the serious racer.

- Competition Sensor Brushless Motor (540 size) for 1/10 scale vehicles
- Magnesium motor case
- LW lightweight design
- World championship winning VST2 Pro technology
- Modified and Stock winds available
- Dual Sensor Port
- New sensor design improves performance and efficiency
- Low resistance solder tabs
- High quality stator materials
- Precision balanced rotor

For 1/10 On- and Off-Road Vehicles:

For 1/8 Off-Road Buggies and Truggies:



### 540 Size Motors

Details	
Weight	170g
Length	52.8 mm
Motor Diameter	35.8 mm
Shaft Length	15 mm
Shaft Diameter	3.175 mm
Adjustable timing	yes



The 540 size Mg Motors come with adjustable timing, gold plated low resistance solder tabs and dual sensor port

### 690 Size Motors

Details	
Weight	323g
Length	69 mm
Motor Diameter	43.2 mm
Shaft Length	20 mm
Shaft Diameter	5 mm
Adjustable timing	no



The 690 size Mg Motors come with fixed timing, gold plated low resistance solder tabs and dual sensor port

### TECHNICAL SPECIFICATIONS

	2P 13.5T 540 Stock	2P 17.5T 540 Stock	2P 5.5T 540 Modified	2P 6.5T 540 Modified	2P 7.5T 540 Modified	4P 2100kv 690
Part Number	ORI28330	ORI28331	ORI28332	ORI28333	ORI28334	ORI28335
Size	540	540	540	540	540	690
Voltage	1-3S/12V	1-3S/12V	1-2S/8.4V	1-2S/8.4V	1-2S/8.4V	3-6S
kV	3450	2500	6800	6350	5800	2100
Power/W	330	295	670	580	500	2300
Current/A	40	35	80	70	60	120
Efficiency	92%	92%	91%	91%	91%	92%
Poles	2	2	2	2	2	4



## TITLES

- Multi-time World Champion
- Multi-time US National Champion
- Multi-time National Champion
- ETS Winner

Details	
Weight	180g
Length	52.8 mm
Motor Diameter	35.8 mm
Shaft Length	15 mm
Shaft Diameter	3.175 mm
Adjustable timing	yes

	2P 3.5T	2P 4.0T	2P 4.5T	2P 5.5T	2P 6.5T	2P 7.5T	2P 8.5T	2P 9.5T
Part Number	ORI28290	ORI28291	ORI28292	ORI28307	ORI28308	ORI28309	ORI28311	ORI28312
Size	540	540	540	540	540	540	540	540
Voltage	1-2S/8.4V	1-2S/8.4V	1-2S/8.4V	1-2S/8.4V	1-2S/8.4V	1-2S/8.4V	1-3S/12V	1-3S/12V
kV	10100	9400	8900	6800	6350	5800	5100	4600
Power/W	830	780	730	670	580	500	480	450
Current/A	100	95	90	80	70	60	53	45
Efficiency	91%	91%	91%	91%	91%	91%	92%	92%
Poles	2	2	2	2	2	2	2	2

## Vortex VST2 Pro LW 540 1/10 Lightweight Brushless Motor

The VST2 LW is a lightened version of the world championship winning VST2 540 motor. Extra machining work is done to the case to shave off as much weight as possible. Lighter motors improve the car CG (center of gravity) and handling, allowing faster lap times. The VST2 Pro LW internals are based on those of the VST2 540 motors and offer similar performance characteristics.

- Competition Sensor Brushless Motor (540 size) for 1/10 scale vehicles
- World championship winning VST2 Pro technology
- Modified and Stock winds available
- Dual Sensor Port
- Sensor design improves performance and efficiency
- Alloy case with improved ventilation system
- Low resistance solder tabs
- High quality stator materials
- Precision balanced rotor

### NEW! Tuning Rotors:

ORI41472 Rotor VST2 Pro / VST2 Pro LW Modified 12.1x25x4.7 High Grip  
ORI41473 Rotor VST2 Pro / VST2 Pro LW Modified 12.5x25x4.7 for US Tracks



## TITLES

- Multi-time World Champion
- Multi-time US National Champion
- Multi-time National Champion
- ETS Winner

Details	
Weight	158g
Length	51mm
Motor Diameter	34mm
Shaft Length	15mm
Shaft Diameter	3.175mm
Adjustable timing	no

	2P 4.5T	2P 5.5T	2P 6.5T	2P 7.5T	2P 8.5T	2P 9.5T	2P 10.5T	2P 13.5T	2P 17.5T	2P 21.5T
Part Number	ORI28320	ORI28321	ORI28322	ORI28323	ORI28324	ORI28325	ORI28326	ORI28327	ORI28328	ORI28329
Size	540	540	540	540	540	540	540	540	540	540
Voltage	1-2S/8.4V	1-2S/8.4V	1-2S/8.4V	1-2S/8.4V	1-3S/12V	1-3S/12V	1-3S/12V	1-3S/12V	1-3S/12V	1-3S/12V
kV	8900	6800	6350	5800	5100	4600	4500	3450	2500	2300
Power/W	730	670	580	500	480	450	380	330	295	250
Current/A	90	80	70	60	53	45	46	40	35	30
Efficiency	91%	91%	91%	91%	92%	92%	92%	92%	92%	92%
Poles	2	2	2	2	2	2	2	2	2	2

## Vortex VST2 Pro 540 XLW NEW 1/10 Xtreme Lightweight Modified Brushless Sensor Motor

The VST2 XLW motor is a new development based on our VST2 Pro motor design. We have taken the design to the extreme to make it as compact and lightweight as possible. Motors make up an important part of a car's total weight and weight is detrimental to performance. By taking the best aspects of our VST2 Pro motor design and working on them with weight savings in mind, we have created an incredibly compact and lightweight motor. The XLW motor improves the car handling by optimizing the car's CG (center of gravity) and weight distribution. As always our R&D manager Oscar Jansen oversees all of the aspects of the motor design and production to ensure that each motor is built to the highest quality standards available.

- Competition Sensor Brushless Motor (540 size) for 1/10 scale vehicles
- World championship winning VST2 Pro technology
- Extreme compact size and lightweight
- Offset mounting holes allow the motor to be positioned lower
- Improves car performance and handling
- Single sensor port
- Fixed timing



# TITLES

- Multi-time World Champion
- Multi-time US National Champion
- Multi-time National Champion
- ETS Winner

Details	
Weight	188g
Length	52.8 mm
Motor Diameter	35.8 mm
Shaft Length	15 mm
Shaft Diameter	3.175 mm
Adjustable timing	yes

## NEW! Tuning Rotors:

ORI41472 Rotor VST2 Pro / VST2 Pro LW Modified 12.1x25x4.7 High Grip  
ORI41473 Rotor VST2 Pro / VST2 Pro LW Modified 12.5x25x4.7 for US Tracks

## Vortex VST2 Pro 540 Modified 1/10 Modified Brushless Sensor Motor

The VST2 motor offers high performance and reliability in any racing condition. It's original design is the development platform that we use for our newer LW, XLW and MG VST2 motor generations. The technical solutions that have been developed to improve performance, stability and reliability are at the peak of the brushless motor technology. The motor uses high grade materials and is equipped with two sensor ports, facilitating wire management. Our R&D manager Oscar Jansen oversees all of the aspects of the motor design and production to ensure that each motor is built to the highest quality standards available.

- Competition Sensor Brushless Motor (540 size) for 1/10 scale vehicles
- 3.5T to 9.5T 2 pole
- 4000KV to 5200KV 4 pole
- Rebuildable 2 piece motor can design
- Adjustable timing
- Dual Sensor Port
- Aluminum rear sensor cover
- New stack design for improved efficiency
- New cooling vent design for improved cooling
- Extra thick front plate for improved reliability and cooling
- Extra thick solder posts for improved connection
- New sensor holder design
- New winding connection plates design
- Comes with a rotor removal tool
- Available in 2 and 4 pole versions

	2P 3.5T	2P 4.0T	2P 4.5T	2P 5.5T	2P 6.5T	2P 7.5T	2P 8.5T	2P 9.5T	4P 4000KV	4P 4600KV	4P 5200KV
Part Number	ORI28254	ORI28255	ORI28256	ORI28257	ORI28258	ORI28259	ORI28260	ORI28261	ORI28267	ORI28268	ORI28269
Size	540	540	540	540	540	540	540	540	540	540	540
Voltage	1-2S	1-2S	1-2S	1-2S	1-3S	1-3S	1-3S	1-3S	max. 3S	max. 2S	max. 2S
kV	10850	9920	9400	7770	6750	6200	5400	4940	4000	4600	5200
Power/W	850	800	750	670	600	550	490	430	700	750	800
Current/A	100	95	90	80	72	65	58	52	80	90	100
Efficiency	92%	92%	92%	91%	91%	91%	91%	91%	92%	92%	93%
Poles	2	2	2	2	2	2	2	2	4	4	4



## Vortex VST2 Pro 550 1/10 Modified Brushless Sensor Motor for Short Course Trucks

The VST2 Pro 550 size motor is designed for Short Course Trucks and other off-road vehicles. The motor's design is based on our world championship winning VST2 Pro brushless motor technology. The technical solutions that have been developed to improve performance, stability and reliability are at the peak of the brushless motor technology. The motor uses high grade materials and is equipped with two sensor ports, facilitating wire management. Our R&D manager Oscar Jansen oversees all of the aspects of the motor design and production to ensure that each motor is built to the highest quality standards available. The VST2 Pro 550 is available in 2 pole and 4 pole versions and uses a 5mm shaft.

# TITLES

- Multi-time World Champion
- Multi-time US National Champion
- Multi-time National Champion
- ETS Winner

Details	
Weight	258g
Length	69.5 mm
Motor Diameter	35.8 mm
Shaft Length	16.5 mm
Shaft Diameter	5 mm
Adjustable timing	yes

- Competition Sensor Brushless Motor (550 size) for 1/10 scale vehicles
- For 2WD and 4WD short-course trucks
- 2 or 4 pole versions available
- 5mm shaft
- New sensor design improves performance and efficiency
- Dual sensor wire port
- Alloy case with improved ventilation system
- Low resistance solder tabs
- High quality stator materials
- Precision balanced rotor
- Rotor installation tool

	2P 4.0T	2P 4.5T	2P 5.5T	2P 6.5T	2P 7.5T	4P 4000KV
Part Number	ORI28296	ORI28262	ORI28263	ORI28264	ORI28265	ORI28266
Size	550	550	550	550	550	550
Voltage	1-2S	1-2S	1-3S	1-3S	1-3S	2S
kV	5100	4800	4040	3450	3030	4000
Power/W	950	910	820	730	670	1000
Current/A	110	100	80	60	50	120
Efficiency	92%	92%	92%	92%	91%	92%
Poles	2	2	2	2	2	4





## TITLES



Multi-time World Champion



Multi-time US National Champion



Multi-time National Champion



ETS Winner

## Details

Weight	352g
Length	69 mm
Motor Diameter	43.2 mm
Shaft Length	20 mm
Shaft Diameter	5 mm
Adjustable timing	no

## TECHNICAL SPECIFICATIONS

	4P 1900KV	4P 2100KV	4P 2500KV
Part Number	ORI28270	ORI28271	ORI28272
Size	690	690	690
Voltage	2-6S	2-4S	2-4S
kV	1900	2100	2500
Power/W	2100	2300	2650
Current/A	100	120	150
Efficiency	93%	92%	92%
Poles	4	4	4

## Vortex VST2 Pro 690

### 1/8 Scale Sensor Brushless Motor

The Vortex VST2 Pro 690 is our high-end 1/8 buggy sensed brushless motor. As with our other competition motors, it's design is based on our VST2 Pro motor technology. Each aspect of the motor is thought of by our motor man Oscar Jansen and validated by our racing team. In 1/8 off-road racing toughness and reliability is very important. The VST2 Pro 690 motor uses an extremely robust aluminum case in combination with thick front and back motor plates. The 4 pole rotor is designed for optimal torque and power control characteristics. Finally, the motor features a convenient dual sensor port system which allows optimal motor positioning and wiring routing.

- Competition Sensor Brushless Motor (690 size) for 1/8 scale vehicles
- 4 pole sensor motor
- New sensor design improves performance and efficiency
- Dual sensor wire port
- Alloy case with improved ventilation system
- Low resistance solder tabs
- High quality stator materials
- Precision balanced rotor



## Vortex VST2 Sport

### 1/10 Sport Brushless Sensor Motor

The VST2 Sport design is based on the world championship winning VST2 motor technology. Our goal was to reduce costs while maintaining the most important aspects of our brushless motor technology. We have achieved it, using a simpler two-piece milled aluminum can design along with a simpler sensor design. The VST2 Sport is the ideal choice for those who want to benefit from a high-performance sensor brushless motor technology but have to do so on a limited budget. Thanks to its fixed timing design, the VST2 Sport motor is also an ideal choice for race organizers; it offers more equal performance and facilitates technical inspection.

- Sensor Brushless Motor (540 size) for 1/10 scale vehicles
- Fixed timing
- Machined aluminum motor can
- Highly efficient cooling
- High performance 2-pole rotor
- Simple and highly reliable design
- Developed by Oscar Jansen
- Plug&Play: equipped with cables and 4mm gold connectors

## TECHNICAL SPECIFICATIONS

	2P 6.5T	2P 7.5T	2P 8.5T	2P 10.5T	2P 13.5T	2P 17.5T	2P 21.5T
Part Number	ORI28300	ORI28301	ORI28302	ORI28303	ORI28304	ORI28305	ORI28306
Size	540	540	540	540	540	540	540
Voltage	1-2S/8V	1-2S/8V	1-3S/12V	2-3S/12V	2-3S/12V	2-3S/12V	2-3S/12V
kV	6300	5300	4600	3650	3050	2400	1850
Power/W	420	400	380	360	340	300	260
Current/A	60	55	50	45	40	35	30
Efficiency	89%	89%	89%	90%	90%	90%	91
Poles	2	2	2	2	2	2	2





## Vortex VST2 Pro LW 540 1/10 Roar Legal Lightweight Brushless Stock Motor

The VST2 LW is a lightened version of the world championship winning VST2 540 motor. Extra machining work is done to the case to shave off as much weight as possible. Lighter motors improve the car CG (center of gravity) and handling, allowing faster lap times. The VST2 Pro LW internals are based on those of the VST2 540 motors and offer similar performance characteristics.

- Competition Sensor Brushless Motor (540 size) for 1/10 scale vehicles
- World championship winning VST2 Pro technology
- Modified and Stock winds available
- Dual Sensor Wire Port
- New sensor design improves performance and efficiency
- Alloy case with improved ventilation system
- Low resistance solder tabs
- High quality stator materials
- Precision balanced rotor

	2P 10.5T	2P 13.5T	2P 17.5T	2P 21.5T
Part Number	ORI28293	ORI28294	ORI28295	ORI28310
Size	540	540	540	540
Voltage	1-3S/12V	1-3S/12V	1-3S/12V	1-3S/12V
kV	4500	3450	2500	2300
Power/W	380	330	295	250
Current/A	46	40	35	30
Efficiency	92%	92%	92%	92%
Poles	2	2	2	2

The motor specifications follow the rules edited by EFRA, ROAR, FEMCA and IFMAR.



## Vortex VST2 Pro 540 Stock 1/10 Roar Legal Brushless Stock Motor

The VST2 Pro Stock brushless motor features specific developments for the stock racing class. Using the input from our racing team, Oscar Jansen has developed a stock class motor that features performance at the peak of the technology. The technical solutions improve performance, stability and reliability. The motor uses high grade materials and is equipped with two sensor ports, facilitating wire management. The VST2 Pro Stock motor follows the regulations edited by the leading organizations.

- Competition Sensor Brushless Motor (540 size) for 1/10 scale vehicles
- Rebuildable 2 piece motor can design with adjustable timing
- Dual Sensor Port for better wire management
- New stack design for improved efficiency
- Extra thick front plate for improved reliability and cooling
- Extra thick solder posts for improved connection
- New sensor holder design and new winding connection plates
- Comes with a rotor removal tool

	2P 10.5T	2P 13.5T	2P 17.5T	2P 21.5T
Part Number	ORI28250	ORI28251	ORI28252	ORI28253
Size	540	540	540	540
Voltage	1-3S	1-3S	1-3S	1-3S
kV	4570	3650	2600	2350
Power/W	385	330	295	250
Current/A	46	40	35	30
Efficiency	91%	91%	90%	90%
Poles	2	2	2	2

The motor specifications follow the rules edited by EFRA, ROAR, FEMCA and IFMAR.

### NEW! Tuning Rotor:

ORI41471 Rotor VST2 Pro 540 2P Stock 10.5-13.5 High Performance



## Vortex VST2X Stock 1/10 Outlaw Brushless Stock Motor

The stock classes are some of the most popular racing classes worldwide. Most races use the rules established by the ROAR US R/C car and truck association, but there is also a number of races which do not adopt these strict motor rules, this is where the VST2X Stock motors come into play. The VST2X brushless stock motor is built using the World Championship winning VST2 technology but its extreme design increases its power output even further. In the very competitive stock class where the motor turns are limited, this motor will give you an edge over your competitors.

- Competition Sensor Brushless Motor (540 size) for 1/10 scale vehicles
- Special motor for stock classes not sanctioned by ROAR
- Extreme tuning by Oscar Jansen
- Based on the World Championship winning VST2 motor design
- Dual Sensor Wire Port
- New sensor design improves performance and efficiency
- Alloy case with improved ventilation system
- Low resistance solder tabs
- High quality stator materials
- Precision balanced rotor

	ORI28280	ORI28277	ORI28282	ORI28283
Turns	10.5T	13.5T	17.5T	21.5T
Voltage	1-3S/12V	1-3S/12V	1-3S/12V	1-3S/12V
KV	4570	3650	2600	2350
Max. Current	48A	42A	32A	32A
Max. Power	395	340	305	260
Efficiency	91%	91%	90%	90%
Motor Diameter (mm)	35.8	35.8	35.8	35.8
Motor Length (mm)	52.8	52.8	52.8	52.8
Weight (g)	188	187	186	185



## Vortex Mini-Z Mini-Z Brushless Motor

The Team Orion Vortex motor technology is multi-time world champion both on-road and off-road. The Vortex Mini-Z brushless motors represents the porting of this superior technology to the world of the Kyosho Mini-Z racing cars. The brushless equipped Mini-Z cars offer performance that was previously unheard of. Vortex motor technology ensures both performance and reliability. Three different motors offering different levels of performance are available. 5600Kv is the lower performance longer runtime motor and the 9500Kv is the higher performance shorter runtime motor. No matter your driving skills or track condition, Team Orion has motor for your needs!

- World Champion Vortex Technology
- High-performance
- Three versions from 5600 to 9500kV



### TECHNICAL SPECIFICATIONS

Part#	ORI20919	ORI20920	ORI20921
KV	5600	8500	9500
Spannung	3-6V	3-6V	3-6V

On the right: a Kyosho Mini-Z chassis equipped with a Team Orion Brushless motor - an unbeatable combination!

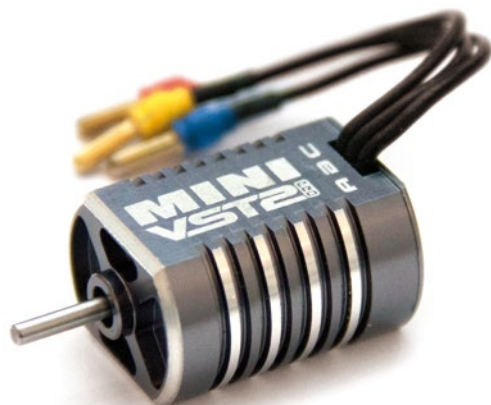


## Vortex Mini-Z Heatsink Mini-Z Aluminum Heatsink

The optional aluminum cooling sleeve is specifically designed for Team Orion Mini Z brushless motors. To install it, simply pull off the original plastic sleeve and slide this aluminum one in its place.

- Improves motor cooling
- Increased power and efficiency

ORI41552 Grey Alloy Sleeve for MiniZ Motor



## Vortex Mini VST2 Vortex Mini VST2 Mini-Z Brushless Motor with integrated heatsink

The Team Orion Vortex motor technology has won several on-road and off-road world championships. Using this technology we have developed a micro sized brushless motor, specifically for use in Kyosho MiniZ cars. The major difference with the Mini Vortex VST2 is in the cooling design of the motor, the heatsink is integrated to the motor case, improving cooling and efficiency. The Mini Vortex VST2 motor is the ultimate performance improvement for your MiniZ car.

- World Champion Motor Technology
- Team Orion Design with integrated heatsink
- 9500kV version for a maximum of power

ORI20927 Mini VST2 Motor KV9500 (Grey full alloycase)



## Spare Parts for Motors



### Sensor Modules

- ORI41512 Sensor Module w/ ball bearing VST2Pro 540 Modified
- ORI41513 Sensor Module w/ ball bearing VST2Pro 540/550 4P
- ORI41514 Sensor Module w/ ball bearing VST2Pro 690
- ORI41529 Sensor Module w/ ball bearing VST2Pro 540 Stock



### Rotors

- ORI41517 Rotor VST2 Pro 540 2P Stock
- ORI41518 Rotor VST2 Pro 540 2P Modified
- ORI41519 Rotor VST2 Pro 550 2P
- ORI41520 Rotor VST2 Pro 550 4P
- ORI41521 Rotor VST2 Pro 540 4P
- ORI41522 Rotor VST2 Pro 690 4P



### Soldering Tab Covers

- ORI41531 Soldering tab cover VST2Pro 540/550
- ORI41532 Soldering tab cover VST2Pro 690



### Tuning Rotors

- ORI41471 Rotor VST2 Pro 540 2P Stock 10.5-13.5 High Performance
- ORI41472 Rotor VST2 Pro / VST2 Pro LW Modified 12.1x25x4.7 High Grip
- ORI41473 Rotor VST2 Pro / VST2 Pro LW Modified 12.5x25x4.7 for US Tracks



### Front Ball Bearings

- ORI41515 Front ball bearing VST2Pro 540 2P/4P
- ORI41516 Front ball bearing VST2Pro 690
- ORI41530 Front ball bearing VST2Pro 550 2P/4P



### End Bells

- ORI41535 Aluminum End bell w/screws VST2Pro 540/550
- ORI41536 Plastic End bell w/screws VST2Pro 540/550



### Sensor Wires

- ORI41524 Pro Sensor Wire 50mm
- ORI41525 Pro Sensor Wire 75mm
- ORI41526 Pro Sensor Wire 100mm
- ORI41527 Pro Sensor Wire 120mm
- ORI41528 Pro Sensor Wire 150mm
- ORI41545 Pro Sensor Wire 175mm
- ORI41546 Pro Sensor Wire 200mm



### Screws

- ORI41537 Screws VST2Pro 540/550 case / VST2 690 Endbell (10pcs)
- ORI41538 Screws VST2Pro 540/550 Endbell (10pcs)
- ORI41539 Screws VST2Pro 690 case (10pcs)
- ORI41540 Screws Neon 8 WP case (10pcs)
- ORI41541 Screws Vortex RTR motor case (10pcs)



ORI41533 Rotor removal tool VST2Pro 540/550 2P



ORI41523 Sensor cover VST2Pro 10pcs

## Spare Parts for Speed Controllers



### Cooling Fans

- ORI65169 Cooling fan R10 (ORI65101/ORI65102)
- ORI65170 Cooling fan R10 SC / R8 / R10 S / R8 S (ORI65103/ORI65104/ORI65107/ORI65108)
- ORI65171 Cooling fan R8 Pro (ORI65105)
- ORI65172 Cooling fan R10 Sport (ORI65106)
- ORI65178 Cooling fan Carbon Look for R10.1 (ORI65128)
- ORI65181 Cooling Fan for R8 One (ORI65127)
- ORI65184 Cooling Fan for R8.1 Pro (ORI65125)



### Cases / Bottom Cases

- ORI65160 Bottom Case Carbon Look for R10 / R10.1 (ORI65101/ORI65102/ORI65128)
- ORI65161 Case black for R10 SC / R8 (ORI65103/ORI65104)
- ORI65162 Bottom Case Carbon Look for R10 S / R8 S (ORI65107/ORI65108)
- ORI65163 Bottom Case Carbon Look for R8 Pro (ORI65105)
- ORI65164 Bottom Case Carbon Look for R10 Sport (ORI65106)



### Capacitor Bank

- ORI65177 Capacitor Bank for R10 Pro and R10.1 Pro (ORI65101/102/109/120/128)
- ORI65183 External capacitor for R8.1 Pro (ORI65125)



### Switches

- ORI65165 Switch for R10 (ORI65101/ORI65102)
- ORI65166 Switch for R10 SC / R8 / R10 S / R8 S (ORI65103/ORI65104/ORI65107/ORI65108)
- ORI65167 Switch for R8 Pro (ORI65105)
- ORI65168 Switch for R10 Sport (ORI65106)
- ORI65180 Switch (black wire) for R10.1 (ORI65128)
- ORI65185 Electronic Switch for R8.1 Pro (ORI65125)



### RX Wire

- ORI65179 RX Wire Black R10.1 (ORI65128)



### Wires





- ORI65173 Wires and Connectors for R10 (ORI65101/ORI65102)
- ORI65174 Wires and Connectors for R10 SC / R8 / R10 S / R8 S (ORI65103/ORI65104/ORI65107/ORI65108)
- ORI65175 Wires and Connectors for R8 Pro (ORI65105)
- ORI65176 Wires and Connectors for R10 Sport (ORI65106)
- ORI65182 Wire Set w/connectors for R8.1 Pro (ORI65125)



#### TECHNICAL SPECIFICATIONS

Rated Current	170A/820A
Internal Resistance	0.00018
Type	Sensor/Sensorless 2/4 pole motors
Function modes	Forward/Brake - Forward/Brake/Reverse - Forward/Reverse (Crawler)
Motor type	No limit
Battery	6V - 8.4V 5-7 Cells NiMH/NiCd
	7.4V 2S LiPo/LiFe
BEC	6V 3A max
Size and weight	41.5x30.5x20.2mm, 44g
Part#	ORI65128

#### TITLES

-  Multi-time World Champion
-  Multi-time US National Champion
-  Multi-time National Champion
-  ETS Winner



## Vortex R10.1 The Evolution

As soon as it was released, our Vortex R10 Pro ESC immediately proved that it could compete with and even beat the best ESCs available on the market. Over the years it has been used to win the most prestigious races, World Championships, European championships, US Nationals and a myriad of National events around the world. The Vortex R10 Pro has proven that it can offer ultimate performance in all of the 1/10th scale racing classes. We are well aware that even if our products are successful, we cannot rest and have to keep working hard to improve year after year. Our R&D team, managed by Oscar Jansen with the assistance of Joe Pillars in the USA, uses the input from our world class team drivers to further improve all the aspects of our products. Successful drivers such as, Jilles Groskamp, Jared Tebo, Ryan Cavalieri, David Ronnefalk and Markus Mobergs, just to name a few, help us test and design the best possible products. Thanks to all this hard work we can keep on offering the most competitive and most reliable products to our customers. The Vortex R10.1 Pro ESC is yet another example of this constant search for perfection, we have improved many aspects of the ESC, to ensure that you, the user, can enjoy the best possible performance. It uses a new improved PCB design which reduces resistance and increase maximum available power, combined with a new refined software that offers even better control for the throttle and brakes.

- World Champion
- European Champion
- US National Champion
- New thicker PCB for lower resistance
- New generation FET for improved performance
- Machined aluminum case with refined cooling system
- Black Anodizing combined with Carbon look
- High grade components for unparalleled performance
- Highly customizable and updatable state of the art software
- Dual sensor port for optimal sensor wire placement
- Works with sensor and sensorless motors
- Forward/brake, forward/brake/reverse and forward/reverse function modes
- Designed for 2S LiPo
- Easy setup
- Status monitoring by LED and audio tone
- Optional program box and software available (ORI65153)



#### TECHNICAL SPECIFICATIONS

Part#	ORI65102
Rated current	160A/760A
Type	Sensor/Sensorless
Function modes	Forward/Brake - Forward/Brake/Reverse - Forward/Reverse (Crawler)
Timing boost	yes
Motor type	2S: up to 2.5T, 3S up to 5.5T
Battery	5-9c NiMH/NiCd, 2-3S LiPo/LiFe
BEC	5.75V/3A, Linear
Size and weight	41.5x30.5x20.2mm, 44g

## Vortex R10 Pro The Original

High performance ESC for all 1/10 racing classes. Its advanced software and timing functions maximize performance. It can run both in forward and reverse and with sensor or sensorless motors, making it not only the best racing ESC, but also the best all-around ESC. Works with 2-3S LiPo.

- Machined aluminum case with refined cooling system
- Black Anodizing combined with Carbon look
- High grade components for unparalleled performance
- Highly customizable and updatable state of the art software
- Dual sensor port for optimal sensor wire placement
- Works with sensor and sensorless motors
- Forward/brake, forward/brake/reverse and forward/reverse function modes
- Designed for 2S LiPo
- Easy setup
- Status monitoring by LED and audio tone
- Optional program box and software available (ORI65153)





## Vortex R10 Race For the Sport Racer

This ESC offers the same refined power control has the R10 Pro ESC but it comes as a no timing ESC with lower current capability. A limited timing software is also available (requires the optional ORI65153 program box to install). The R10 Race works with sensor and sensorless motors, 2-3S LiPo and has forward/reverse function. Ideal for the racer on a budget.

- Machined aluminum case with refined cooling system
- High grade components for unparalleled performance
- Highly customizable and updatable state of the art software
- Dual sensor port for optimal sensor wire placement
- Works with sensor and sensorless motors
- Forward/brake, forward/brake/reverse and forward/reverse function modes
- Designed for 2S LiPo
- Easy setup
- Status monitoring by LED and audio tone
- Optional program box and software available (ORI65153)

### TECHNICAL SPECIFICATIONS

Part#	ORI65109
Rated current	90A/420A
Type	Sensor/Sensorless
Function modes	Forward/Brake - Forward/Brake/Reverse - Forward/Reverse (Crawler)
Timing boost	no
Motor type	2S: up to 5.5T, 3S up to 10.5T
Battery	5-9c NiMH/NiCd, 2-3S LiPo/LiFe
BEC	5.75V/3A, Linear
Size and weight	41.5x30.5x20.2mm, 43g



## Vortex R10 Stock US Spec For Blinky Racing Class

Based on our world champion R10 Pro ESC, the R10 Stock has been specifically designed for the „blinky“ racing class. It offers the best that brushless ESC technology has to offer to give you an edge over the competition! High performance and smooth power control!

- New generation FET for improved performance
- Machined aluminum case with refined cooling system
- Black Anodizing combined with Carbon look
- High grade components for unparalleled performance
- Highly customizable and updatable state of the art software
- Dual sensor port for optimal sensor wire placement
- Works with sensor and sensorless motors
- Forward/brake, forward/brake/reverse and forward/reverse function modes
- Designed for 2S LiPo
- Easy setup
- Status monitoring by LED and audio tone
- Optional program box and software available (ORI65153)

### TECHNICAL SPECIFICATIONS

Part#	ORI65120
Rated current	90A/420A
Type	Sensor/Sensorless
Function modes	Forward/Brake - Forward/Brake/Reverse - Forward/Reverse (Crawler)
Timing boost	no
Motor type	Stock Motors
Battery	5-9c NiMH/NiCd, 2-3S LiPo/LiFe
BEC	5.75V/3A, Linear
Size and weight	41.5x30.5x20.2mm, 43g



## Vortex R10 Pro 1-2S For 1/12 Scale Racing

The Vortex R10 Pro 1-2S is designed for 1/12 scale racing. It is equipped with a booster to allow the use of 1S LiPo and ensure high performance. The aluminum case is also thinner, reducing weight and lowering the CG even further. Thanks to its advanced and highly customizable software, this ESC is sure to give you an edge over the competition.

- New generation FET for improved performance
- Machined aluminum case with refined cooling system
- Black Anodizing combined with Carbon look
- High grade components for unparalleled performance
- Highly customizable and updatable state of the art software
- Dual sensor port for optimal sensor wire placement
- Works with sensor and sensorless motors
- Forward/brake, forward/brake/reverse and forward/reverse function modes
- Designed for 1-2S LiPo
- Easy setup
- Status monitoring by LED and audio tone
- Optional program box and software available (ORI65153)

### TECHNICAL SPECIFICATIONS

Part#	ORI65101
Rated current	120A/760A
Type	Sensor/Sensorless
Function modes	Forward/Brake - Forward/Brake/Reverse - Forward/Reverse (Crawler)
Timing boost	yes
Motor type	1S: up to 3.5T, 2S up to 4.5T
Battery	4-6c NiMH/NiCd, 1-2S LiPo/LiFe
BEC	6V/2A, Booster
Size and weight	41.5x30.5x16.5mm, 40g



European, German & Snowbird National Champion

**TECHNICAL SPECIFICATIONS**

Rated current	180A constant 860A peak
Type	Sensor/Sensorless 2/4 pole motors
Internal Resistance	0.00028mohm
Function modes	Forward/Brake, Forward/Brake/Reverse, Forward/Reverse (Crawler)
Compatible motors	Max 2700KV
Battery	7.4V - 14.8V 2S-4S LiPo/LiFe
BEC	Adjustable 6V or 7.2V 5A max
Size and weight	53.5x38x34 146g (w/fan)
Part#	ORI65125

**TITLES**

Multi-time National Champion (USA, Germany, etc.)

## Vortex R8.1 Pro 2-4S

### 1/8 Competition Speed Controller

**NEW**

The Vortex R8.1 Pro is our new sensor brushless ESC designed specifically for 1/8 scale racing. Its design is based on our world championship winning R10 and R10.1 Pro ESC design. The compact size machined aluminum case is lightweight and improves cooling efficiency. The R8.1 is equipped with dual sensor ports and can be programmed using our DBS-R+ program box. The R8.1 Pro has been extensively tested by our R&D team to ensure that you get ultimate performance, no matter your racing application. Paired with one of our new 690 size VST2 motors, this ESC forms the ultimate 1/8 brushless power combo.

- Specifically designed for 4S LiPo 1/8 scale racing
- Adjustable BEC voltage 6V or 7.2V for improved servo response
- Based on World and National championship winning technology
- Dual Sensor Port
- Machined aluminum case
- Exclusive cooling fan protection and design for improved cooling
- Ultra low resistance PCB and FET
- Highly customizable state of the art software
- Works with sensor and sensorless motors
- Forward/brake, forward/brake/reverse and forward/reverse (Crawler) function modes
- Status monitoring by LED and audio tone
- Equipped with Deans high current connectors
- Optional DSB-R programming box available (ORI65153)

**TECHNICAL SPECIFICATIONS**

Rated current	220A constant, 1050A peak
Type	Sensor/Sensorless 2/4 pole motors, 6 pole motors sensorless only
Internal Resistance	0.00026mohm
Function modes	Forward/Brake, Forward/Brake/Reverse, Forward/Reverse (Crawler)
Motor type	3000KV max
Battery	7.4V - 22.2V 2S-6S LiPo/LiFe
BEC	Adjustable 6V or 7.2V 5A max
Size and weight	58x45.5x36, 188.5g (w/fan)
Part#	ORI65129

**TITLES**

Multi-time National Champion (USA, Germany, etc.)

## Vortex R8 Pro X 2-6S

### 1/8 Extreme Speed Controller

The R8 Pro X is our no limit ESC. It is designed for those who need an extremely powerful ESC which can handle fast motors and up to 6S Lipo batteries. The previous design has been improved with a new aluminum case, a new cooling fan design and a new and improved software that enables further customization of the ESCs performance. This is the perfect choice for those who drive big trucks or cars that are powered by big motors and big batteries. The improved cooling and PCB design allow the ESC to handle the power and the advanced software allows you to fine tune the performance so that you remain in control in any situation. The ESC BEC system can supply up to 7.2V to your steering servo, this way you are sure to have all the power required for the servo to steer even the biggest wheels around the course.

- Designed for extreme 1/8 scale use
- Works with up to 6S LiPo
- Based on the 1/8 Scale Buggy & Truggy US National Champion ESC
- Adjustable BEC voltage 6V or 7.2V for improved servo response
- Machined aluminum case and carbon look cover
- Exclusive cooling fan protection and design for improved cooling
- Ultra low resistance PCB and FET
- Highly customizable state of the art software
- Works with sensor and sensorless motors
- Forward/brake, forward/brake/reverse and forward/reverse (Crawler) function modes
- Status monitoring by LED and audio tone
- Equipped with Deans high current connectors
- Optional DSB-R programming box available (ORI65153)





### Vortex DSB-R Plus Digital Program Box

The DSB-R + program box is the ultimate tool to setup and update Team Orion ESCs. When using the program box, adjusting your ESC becomes child's play and when connected to our high end ESCs, it unlocks settings which are otherwise unavailable to the user. The DSB-R Plus unlocks the full potential of your ESC. It is now equipped with a LiPo/LiFe charge status indicator, where the battery and individual cells voltage is conveniently displayed on the back-lit LCD display. A must have tool for the serious racer.

- Easily setup your ESC
- Unlock extra settings inside the ESC software
- Update the firmware of your R-series speed controller
- Check the charge status of your LiPo/LiFe batteries
- World Champion setup sheets available on teamorion.com

Compatible with ORI65101, ORI65102, ORI65103, ORI65104, ORI65105, ORI65106, ORI65107, ORI65108, ORI65109, ORI65112, ORI65113, ORI65114, ORI65115, ORI65116, ORI65117, ORI65118, ORI65119, ORI65120, ORI65125, ORI65128, ORI65129  
Part# ORI65153



### R8 ONE WP Speed Controller 1/8 Waterproof Sensorless Brushless System

The R8 One WP is designed for 1/8 Monster trucks. Thanks to its high current capability in can handle any 1/8 car using up to 6S LiPo batteries. it's fully waterproof which means that it can be used even in the most extreme condtions. The ideal ESC for those that need a 6S capable ESC but are on a budget.

- 150A Sensorless ESC
- Designed for 3-6S LiPo batteries (NiMH 9-18 cells)
- Waterproof
- Large size cooling fan
- User adjustable ESC performance settings
- Equipped with dual Deans battery connectors
- 4mm gold motor connectors.

#### TECHNICAL SPECIFICATIONS

ESC	R8 One
Part#	ORI65127
Type	Sensorless
Const./Max. Current	150A/950A
Dimensions	59.5x48x42mm
Weight	178g
Akku	3-6S LiPo, 9-18 Z. NiMH
BEC	6V/3A



### Neon R10 ONE Combo 1/10 Waterproof Sensorless Brushless System

The Neon ONE sensorless brushless system is our one size fits all solution to drastically improve your RTR car's performance. The Neon One motor and ESC are both waterproof and have been developed together as to ensure the highest levels of performance and reliability. Our R&D team has focused its efforts on making the Neon One system both easy to use and compatible with as many car types as possible. In typical plug&play fashion, no soldering is required thanks to the ESC and motor being equipped with gold plated low resistance connectors. The Neon One brushless system is the ideal entry level brushless system featuring the latest technology, outstanding performance and waterproof design.

#### ORI660g8 Neon One Combo 2400KV

ESC	R10 One 45A Tamiya
Part#	ORI65121
Type	Sensorless
Const./Max. Current	45A/260A
Battery	2S LiPo, 4-6C NiMH
Dimensions	36x28x21mm
<b>Motor</b>	<b>2400KV</b>
Part#	ORI28191
Type	Sensorless, 4 Pole, waterproof
RPM/V	2400
Application	1/10 On-/Off-Road
Voltage	2S LiPo, 4-6C NiMH
Shaft	3.175mm
Connection	Gold Plug 3.5mm
Dimensions	L50 x D37mm

#### ORI660g9 Neon One Combo 2700KV

ESC	R10 One 45A Deans
Part#	ORI65122
Type	Sensorless
Const./Max. Current	45A/260A
Battery	2S LiPo, 4-6C NiMH
Dimensions	36x28x21mm
<b>Motor</b>	<b>2700KV</b>
Part#	ORI28192
Type	Sensorless, 4 Pole, waterproof
RPM/V	2700
Application	1/10 On-/Off-Road
Voltage	2S LiPo, 4-6C NiMH
Shaft	3.175mm
Connection	Gold Plug 3.5mm
Dimensions	L50 x D37mm

- R10 ONE 45A sensorless speed controller
- Neon ONE 4-pole sensorless motor
- Waterproof
- Available with Tamiya or Deans battery connector
- 2700KV and 2400KV motors available
- Easy to install and use tuning for 1/10 scale RTR cars
- Gold plated motor/ESC connectors
- Adjustable ESC parameters
- Designed for 2S LiPo batteries



## Vortex R8 and R10 WP Waterproof 1/8 & 1/10 Sensorless Speed Controllers

The Team Orion waterproof electronics speed controllers allow you to run your car in any conditions and not have to worry about damage from water, snow or any other extreme conditions.

- 1/10 & 1/8 sensorless brushless speed controllers
- 100% waterproof
- High current connectors
- Plug & play technology



ORI65113  
R10 Sport WP 45A Deans

### ◀ R10 Sport WP 45A Deans (ORI65113)

The Vortex R10 Sport WP 45A is a high-performance sensorless electronic speed controller for 1/10 scale on-road and off-road cars. Thanks to its proven technology and hardware this is the perfect choice for beginners using entry level cars. The Vortex R10 WP 45A can be used with LiPo batteries with 2 and 3 cells and motors up to 6000KV.



ORI65114  
R10 Sport WP 60A Deans

### ◀ R10 Sport WP 60A Deans (ORI65114)

The Vortex R10 Sport WP 60A is a high-performance sensorless electronic speed controller for 1/10 scale on-road and off-road cars. This ESC uses proven technology and hardware making it the perfect choice for those which use higher performance RTR cars. It can be used with LiPo batteries with 2 and 3 cells and motors up to 6000KV.



ORI65115  
R10 SC WP 100A - Deans

### ◀ R10 SC WP 100A - Deans (ORI65115)

The Vortex R10 SC WP is a high performance sensorless electronic speed controller designed with monster and short course trucks in mind. This ESC uses proven technology and hardware making it the perfect choice for high-performance trucks. It can be used with LiPo batteries with 2 and 3 cells and motors up to 6000KV.



ORI65116  
R8 WP 130A - Deans

### ◀ R8 WP 130A - Deans (ORI65116)

The Vortex R8 WP is a high-performance sensorless electronic speed controller designed for 1/8 scale cars. This ESC uses proven technology and hardware making it the perfect choice for high-performance 1/8 scale cars. The Vortex R8 WP can be used with LiPo batteries with 2 to 4 cells and motors up to 6000KV.

#### R10 Sport WP 45A Deans

Part#	ORI65113
Rated current	45A/290A
Type	Sensorless
Function modes	Forward/Brake - Forward/Brake/Reverse
Resistance	0.0012 ohm
Motor type	2S LiPo: up to 6000KV (On-Road), up to 4000KV (Off-Road) 3S LiPo: up to 4000KV (On-Road), up to 2500KV (Off-Road)
Battery	4-9c NiMH/NiCd, 2-3S LiPo/LiFe
BEC	6V/3A
Size and weight	36x34x35mm, 75g

#### R10 Sport WP 60A Deans

Part#	ORI65114
Rated current	60A/290A
Type	Sensorless
Function modes	Forward/Brake - Forward/Brake/Reverse
Resistance	0.0012 ohm
Motor type	2S LiPo: up to 6000KV (On-Road), up to 4000KV (Off-Road) 3S LiPo: up to 4000KV (On-Road), up to 2500KV (Off-Road)
Battery	4-9c NiMH/NiCd, 2-3S LiPo/LiFe
BEC	6V/3A
Size and weight	36x34x35mm, 75g

#### R10 SC WP 100A - Deans

Part#	ORI65115
Rated current	100A / 520A
Type	Sensorless
Function modes	Forward/Brake - Forward/Brake/Reverse - Forward/Reverse (Crawler)
Resistance	0.0007 ohm
Motor type	2S LiPo: up to 6000KV 3S LiPo: up to 4000KV
Battery	6-9c NiMH/NiCd, 2-3S LiPo/LiFe
BEC	6V/3A
Size and weight	59.3x3x35mm, 75g

#### R8 WP 130A - Deans

Part#	ORI65116
Rated current	130A / 760A
Type	Sensorless
Function modes	Forward/Brake - Forward/Brake/Reverse - Forward/Reverse (Crawler)
Resistance	0.0004 ohm
Motor type	2S LiPo: up to 6000KV 3S LiPo: up to 4000KV 4S LiPo: up to 3000KV
Battery	6-12c NiMH/NiCd, 2-4S LiPo/LiFe
BEC	6V/3A
Size and weight	36x34x35mm, 75g





## Neon 1/10 Sensorless Brushless Set for 1/10 Scale Vehicles

The Neon Brushless System sets a new standard for high performance and cost friendly brushless systems. It uses a splash proof Vortex sensorless ESC combined with a 4-pole sensorless brushless motor! High quality connectors and wires reliably transfer the power from the battery to the motor and you can fine tune the ESC settings as you require. A solid investment to increase your car's performance!

- Vortex world champion technology
- Optimal ESC/motor combinations
- 3 different winds available
- Designed for 1/10 scale on-road and off-road cars
- 4-pole sensorless brushless motor
- Splash proof 45A/290A Vortex R10 Sport ESC
- User adjustable ESC performance settings
- Forward/brake and forward/brake/reverse function modes
- Available with Deans or Tamiya plugs (depending on motor type)
- Works with 2 and 3S LiPo
- Cooling fan included
- Low voltage cut-off system for battery protection
- High grade silicone wires
- Gold connectors
- Easy setup
- Status control by LED and audio tone
- Plug&Play no soldering required



**ORI66082 Neon 14T 4100KV Brushless Combo Deans Plug**

### ◀ Combo 14T/4100KV

**ORI66082 Neon 14T 4100KV Combo**

ESC	Vortex R10 Sport Deans
Part#	ORI65110
Type	Sensorless
Rated current	45A / 290A
Battery	4-9Z NiMH/NiCd, 2-3S LiPo/LiFe
BEC	6V/3A
Weight/size	31.5x27.5x33mm, 74g
Motor	4100KV
Part#	ORI28182
Type	Sensorless, 4 Pole
RPM/V	4100
Application	1/10 Off-Road/On-Road
Voltage	4.5-12.6V
Dimensions	D38.5xL52mm
Shaft	3.175mm
Plugs	Gold Plug 3.5mm



**ORI66083 Neon 17T 3280KV Brushless Combo Deans Plug**

### ◀ Combo 17T/3280KV

**ORI66083 Neon 17T 3280KV Combo**

ESC	Vortex R10 Sport Deans
Part#	ORI65110
Type	Sensorless
Rated current	45A / 290A
Battery	4-9Z NiMH/NiCd, 2-3S LiPo/LiFe
BEC	6V/3A
Weight/size	31.5x27.5x33mm, 74g
Motor	3280KV
Part#	ORI28183
Type	Sensorless, 4 Pole
RPM/V	3280
Application	1/10 Off-Road/On-Road
Voltage	4.5-12.6V
Dimensions	D38.5xL52mm
Shaft	3.175mm
Plugs	Gold Plug 3.5mm



**ORI66084 Neon 19T 2750KV Brushless Combo Tamiya Plug**

### ◀ Combo 19T/2750KV

**ORI66084 Neon 19T 2750KV Combo**

ESC	Vortex R10 Sport Tamiya
Part#	ORI65106
Type	Sensorless
Rated current	45A / 290A
Battery	4-9Z NiMH/NiCd, 2-3S LiPo/LiFe
BEC	6V/3A
Weight/size	31.5x27.5x33mm, 74g
Motor	2750KV
Part#	ORI28184
Type	Sensorless, 4 Pole
RPM/V	2750
Application	1/10 Off-Road/On-Road
Voltage	4.5-12.6V
Dimensions	D38.5xL52mm
Shaft	3.175mm
Plugs	Gold Plug 3.5mm



The Neon Brushless Combo is compatible with 1/10 scale on-road and off-road vehicles.



Waterproof  
ESC

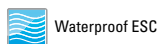


The Neon 550 Brushless Combo is compatible with 1/10 scale Short Course Trucks.

## Neon 550 Sensorless Brushless Set for Short Course Trucks

Following our hugely successful 1/10 Neon combos we have developed combos specifically for short-course trucks. Short-Course trucks need more torque and power than 1/10 cars, therefore the Neon 550 combos are made using more powerful 550 size motors and fully waterproof sensorless ESC. There are two motor KV available, 3800Kv for 2S LiPo and 2400KV for 3S LiPo, the ESC itself can work with 2 and 3S LiPo batteries. The sets are available either with a 3.175mm shaft motor or a 5mm shaft motor. Whichever short-course truck you own and whether you use 2S or 3S LiPo we have the combo that fits your needs!

- Vortex world champion technology
- Available in 2400Kv or 3800Kv versions
- Available with 3.175mm or 5mm motor shafts
- High-performance waterproof ESC
- User adjustable ESC performance settings
- Forward/brake, forward/brake/reverse and forward/reverse (crawler) function modes
- Fitted with Deans high current connectors
- Works with 2S and 3S LiPo
- Low voltage cut-off system for battery protection
- High grade silicone wire and Gold connectors
- Easy setup
- Status control by LED and audio tone
- Plug&Play no soldering required



Waterproof ESC

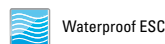


ORI66092 Combo, Shaft: 3.175mm

### ◀ Neon 550 2400KV 3.175mm ORI66092 Combo 2400KV, Shaft: 3.175mm

ESC	Vortex R10 WP Deans
Part#	ORI65115
Type	Sensorless
Rated current	100A / 520A
Battery	6-9Z NiMH/NiCd, 2-3S LiPo/LiFe
BEC	6V/3A
Weight/size	59.3x38.4x33.6mm, 110g

Motor	2400KV
Part#	ORI28185
Type	Sensorless, 4 Pole
RPM/V	2400
Application	1/10 Off-Road
Voltage	6.0V-16.8V (2-4S Lipo)
Dimensions	D36xL61mm
Plug	Gold Plug 3.5mm
Weight	248g



Waterproof ESC



ORI66096 Combo, Shaft: 3.175mm

### ◀ Neon 550 3800KV 3.175mm ORI66096 Combo 3800KV, Shaft: 3.175mm

ESC	Vortex R10 WP Deans
Part#	ORI65115
Type	Sensorless
Rated current	100A / 520A
Battery	6-9Z NiMH/NiCd, 2-3S LiPo/LiFe
BEC	6V/3A
Weight/size	59.3x38.4x33.6mm, 110g

Motor	3800KV
Part#	ORI28189
Type	Sensorless, 4 Pole
RPM/V	3800
Application	1/10 Off-Road
Voltage	6.0V-16.8V (2-4S Lipo)
Dimensions	D36xL61mm
Plug	Gold Plug 3.5mm
Weight	265g



Waterproof ESC



ORI66093 Combo, Welle: 5mm

### ◀ Neon 550 2400KV 5mm ORI66093 Combo 2400KV, Shaft: 5mm

ESC	Vortex R10 WP Deans
Part#	ORI65115
Type	Sensorless
Rated current	100A / 520A
Battery	6-9Z NiMH/NiCd, 2-3S LiPo/LiFe
BEC	6V/3A
Weight/size	59.3x38.4x33.6mm, 110g

Motor	2400KV
Part#	5mm: ORI28186
Type	Sensorless, 4 Pole
RPM/V	2400
Application	1/10 Off-Road
Voltage	6.0V-16.8V (2-4S Lipo)
Dimensions	D36xL61mm
Plug	Gold Plug 3.5mm
Weight	248g



Waterproof ESC



ORI66097 Combo, Welle: 5mm

### ◀ Neon 550 3800KV 5mm ORI66097 Combo 3800KV, Shaft: 5mm

ESC	Vortex R10 WP Deans
Part#	ORI65115
Type	Sensorless
Rated current	100A / 520A
Battery	6-9Z NiMH/NiCd, 2-3S LiPo/LiFe
BEC	6V/3A
Weight/size	59.3x38.4x33.6mm, 110g

Motor	3800KV
Part#	5mm: ORI28190
Type	Sensorless, 4 Pole
RPM/V	3800
Application	1/10 Off-Road
Voltage	6.0V-16.8V (2-4S Lipo)
Dimensions	D36xL61mm
Plug	Gold Plug 3.5mm
Weight	265g





Waterproof  
ESC/Motor



## Neon 8 Sensorless Brushless Set for 1/8 Scale Vehicles

The Neon 8 brushless sensorless combos ideal for regular people who want high performance but cannot afford the high costs of racing grade 1/8 scale brushless systems. The Neon 8 uses a 4 pole sensorless brushless motor and a high performance ESC. The Vortex R8 WP ESC is waterproof and can withstand currents of 130A constant and 760A peak! The ESC software allows the user to tune the motor's performance. Two different Neon 8 combos are available, a 2000kv version and a 2100kv version with a waterproof motor. The Neon 8 brushless combos are ideal for those entering the world of 1/8 brushless off-road racing!

- Vortex world champion technology
- Designed for 1/8 scale off-road buggies
- 2000Kv version with waterproof ESC
- 2100Kv version with waterproof ESC and motor
- 5mm motor shafts
- User adjustable ESC performance settings
- Forward/brake, forward/brake/reverse and forward/reverse (crawler) function modes
- Fitted with Deans high current connectors
- Works with 2S to 4S LiPo
- Low voltage cut-off system for battery protection
- High grade silicone wire and Gold connectors
- Easy setup
- Status control by LED and audio tone
- Plug&Play no soldering required



Waterproof ESC



ORI66094 Neon 8 Combo, 2000KV 5mm

### Neon 8 2000KV

ORI66094 Neon 8 Combo, 2000KV 5mm

ESC	Vortex R8 WP Deans
Part#	ORI65116
Type	Sensorless
Rated current	130A / 760A
Battery	6-12Z NiMH/NiCd, 2-4S LiPo/LiFe
BEC	6V/3A
Weight/size	59.3x38.4x33.6mm, 110g

Motor	2000KV
Part#	ORI28187
Type	Sensorless, 4 Pole
RPM/V	2000
Application	1/8 Off-Road
Voltage	7.2-16.8V (2-4S LiPo)
Dimensions	D40.2xL61mm
Shaft	5mm
Plug	Gold Plug 4mm
Weight	344g



Waterproof Motor and ESC



ORI66095 Neon 8 Combo, 2100KV WP 5mm

### Neon 8 2100KV waterproof

ORI66095 Neon 8 Combo, 2100KV WP 5mm

ESC	Vortex R8 WP Deans
Part#	ORI65116
Type	Sensorless
Rated current	130A / 760A
Battery	6-12Z NiMH/NiCd, 2-4S LiPo/LiFe
BEC	6V/3A
Weight/size	59.3x38.4x33.6mm, 110g

Motor	2100KV
Part#	ORI28188
Type	Sensorless, 4 Pole, waterproof
RPM/V	2100
Application	1/8 Off-Road
Voltage	7.2-16.8V (2-4S LiPo)
Dimensions	D40.2xL61mm
Shaft	5mm
Plug	Gold Plug 4mm
Weight	352g



The Neon 8 Brushless Combo is compatible with  
1/8 scale buggies and trucks.



## Carbon Pro 100C Racing LiPo Batteries

The 100C Carbon LiPo battery range has been used by our team drivers to compete and win at the most prestigious events all over the world. They are available in all the popular sizes and configurations and are encased into our patented Carbon look battery case.

- World Championship winning LiPo chemistry
- Developed by Oscar Jansen, supported by our National, European and World championship winning racing team
- Extreme power output
- Enhanced Energy Density
- Extremely low internal resistance
- 100C discharge rate
- 5C charge rate
- Heavy duty gold tubes or Deans high current connectors
- High quality silicone wires
- Robust carbon look hard case
- JST-XH balance connector
- Meets ROAR, EFRA, BRCA, IFMAR specs

### TITLES



World Champion



Multi-time US National Champion



Multi-time National Champion



ETS Winner



#### 7200 2S 7.4V Deans

Capacity	7200mAh
Voltage	7.4V (2S)
Configuration	Rectangular Case
Connector	Deans
Dimensions (mm)	139 x 47 x 25
Max. Charge Current	5C
Discharge Rate	100C
Weight (g)	320
Part#	ORI14060



#### 7200 2S 7.4V Gold Tubes

Capacity	7200mAh
Voltage	7.4V (2S)
Configuration	Rectangular Case
Connector	4mm Gold Tube
Dimensions (mm)	139 x 47 x 25
Max. Charge Current	5C
Discharge Rate	100C
Weight (g)	315
Part#	ORI14062



#### 6000 2S 7.4V Deans

Capacity	6000mAh
Voltage	7.4V (2S)
Configuration	Rectangular Case
Connector	Deans
Dimensions (mm)	139 x 47 x 25
Max. Charge Current	5C
Discharge Rate	100C
Weight (g)	315
Part#	ORI14059



#### 6000 2S 7.4V Gold Tubes

Capacity	6000mAh
Voltage	7.4V (2S)
Configuration	Rectangular Case
Connector	4mm Gold Tube
Dimensions (mm)	139 x 47 x 25
Max. Charge Current	5C
Discharge Rate	100C
Weight (g)	310
Part#	ORI14061



#### 7200 1S 3.7V

Capacity	7200mAh
Voltage	3.7V (1S)
Configuration	Rectangular Case
Connector	4mm Gold Tube
Dimensions (mm)	93 x 47 x 18.5
Max. Charge Current	5C
Discharge Rate	100C
Weight (g)	145
Part#	ORI14058



#### 5800 2S 7.4V Square Block

Capacity	5800mAh
Voltage	7.4V (2S)
Configuration	Square Block
Connector	4mm Gold Tube
Dimensions (mm)	92.8 x 68.5 x 24.9
Max. Charge Current	5C
Discharge Rate	100C
Weight (g)	310
Part#	ORI14065



#### 4500 2S 7.4V Shorty

Capacity	4500mAh
Voltage	7.4V (2S)
Configuration	Shorty
Connector	4mm Gold Tube
Dimensions (mm)	96 x 47 x 25
Max. Charge Current	5C
Discharge Rate	100C
Weight (g)	210
Part#	ORI14066



#### 5800 7.4V Saddle Pack

Capacity	5800mAh
Voltage	7.4V (2S)
Configuration	Saddle Pack
Connector	4mm Gold Tube/Deans
Dimensions (mm)	69 x 46.5 x 24.9
Max. Charge Current	5C
Discharge Rate	100C
Weight (g)	288
Part#	ORI14063/ORI14064





**ULTRA**

## Carbon Pro ULTRA 110C „ULTRA“ Racing LiPo Batteries

**NEW**

The new Carbon Pro Ultra 110C represent a further development of our world championship winning Carbon Pro LiPo battery technology. Our R&D team works hard throughout the year to continuously improve the racing performance of our batteries. Developments are validated at the track by our racing team, ensuring that the battery characteristics meet the requirements of each of the racing class they participate in. The “Shorty” battery format has become extremely popular and today it’s used in most of the racing classes. For this reason, we have developed a variety of shorty packs in different capacity/weight configuration that allow fine tuning of the car’s handling. A lighter car is generally a faster car, using a smaller battery allows you to save a lot of weight in a very efficient and cost effective way. We have also developed a lighter “stick” battery and 4S LiPo for 1/8 scale racing.

- Developed by Oscar Jansen and our racing team
- Extreme power output
- Enhanced Energy Density
- Extremely low internal resistance
- 110C discharge rate
- 5C charge rate
- Heavy duty gold tubes
- High quality silicone wires
- Robust carbon look hard case
- Meets ROAR, EFRA, BRCA, IFMAR specs

### TITLES

- 🏆 World Champion
- 🏆 Multi-time US National Champion
- 🏆 Multi-time National Champion
- 🏆 ETS Winner



#### 4500 2S 7.4V Shorty Torque

Capacity	4500mAh
Voltage	7.4V (2S)
Configuration	Shorty High Torque
Connector	5mm Gold Tube*
Dimensions (mm)	96 x 47 x 25
Max. Charge Current	5C
Discharge Rate	100C
Weight (g)	210
Part#	ORI14068

\*5mm Gold Tube Connectors included



#### 5000 2S 7.4V Shorty Capacity

Capacity	5000mAh
Voltage	7.4V (2S)
Configuration	Shorty High Capacity
Connector	4mm Gold Tube
Dimensions (mm)	96 x 47 x 25
Max. Charge Current	5C
Discharge Rate	110C
Weight (g)	215
Part#	ORI14083



#### 3800 2S 7.4V XS Shorty

Capacity	3800mAh
Voltage	7.4V (2S)
Configuration	XS Shorty (18.5mm height)
Connector	4mm Gold Tube
Dimensions (mm)	93 x 47 x 18.5
Max. Charge Current	5C
Discharge Rate	110C
Weight (g)	155
Part#	ORI14082



#### 3200 2S 7.4V XSS Shorty

Capacity	3200mAh
Voltage	7.4V (2S)
Configuration	XSS Shorty (16mm height)
Connector	4mm Gold Tube
Dimensions (mm)	96 x 47 x 16
Max. Charge Current	5C
Discharge Rate	110C
Weight (g)	130
Part#	ORI14081



#### 4800 4S 14.8V

Capacity	4800mAh
Voltage	14.8V (4S)
Configuration	Rectangular Case
Connector	5mm Gold Tube*
Dimensions (mm)	138 x 47 x 36
Max. Charge Current	5C
Discharge Rate	110C
Weight (g)	457
Part#	ORI14084



#### 4000 2S 7.4V XS Saddle Pack

Capacity	4000mAh
Voltage	7.4V (2S)
Configuration	XS Saddle Pack (18.5mm)
Connector	4mm Gold Tube
Dimensions (mm)	69 x 47 x 18.5
Max. Charge Current	5C
Discharge Rate	110C
Weight (g)	195
Part#	ORI14085



#### 7400 1S 3.7V

Capacity	7400mAh
Voltage	3.7V (1S)
Configuration	Rectangular Case
Connector	4mm Gold Tube
Dimensions (mm)	93 x 47 x 18.5
Max. Charge Current	5C
Discharge Rate	110C
Weight (g)	155
Part#	ORI14086



#### 5800 7.4V Lightweight

Capacity	5800mAh
Voltage	7.4V (2S)
Configuration	Rectangular Case
Connector	4mm Gold Tube
Dimensions (mm)	139 x 47 x 25.1
Max. Charge Current	5C
Discharge Rate	110C
Weight (g)	269
Part#	ORI14087

### ULTRA LIPO BATTERIES - APPLICATIONS

	Off-Road 4WD	Off-Road 2WD	On-Road Touring	1/12 On-Road	1/8 Off-Road	Stock Racing
ORI14068 Carbon Pro Ultra LiPo 4500 100C 7.4V Shorty Pack 5mm Tubes*	•	•	•		Low Grip	•
ORI14081 Carbon Pro Ultra LiPo 3200 110C 7.4V XSS 16mm Shorty Pack Tubes	Low Grip*	Low Grip*				•
ORI14082 Carbon Pro Ultra LiPo 3800 110C 7.4V XS 18.5mm Shorty Pack Tubes	Low Grip*	High Grip*				•
ORI14083 Carbon Pro Ultra LiPo 5000 110C 7.4V 25mm Shorty Pack Tubes	High Grip*	•				•
ORI14084 Carbon Pro Ultra LiPo 4800 110C 14.8V XS 36mm Pack 5mm Tubes*					High Grip	
ORI14085 Carbon Pro Ultra LiPo 4000 110C 7.4V XS 18.5mm Saddle Pack Tubes	•					
ORI14086 Carbon Pro Ultra LiPo 7400 110C 3.7V XS 18.5mm Tubes				•		
ORI14087 Carbon Pro Ultra LiPo Lightweight 5800 110C 7.4V Tubes			•			

\*Always choose the lightest battery suitable for your conditions / runtime to achieve best overall performance!

\*5mm Gold Tube Connectors included



## Carbon Pro V-Max 110C „Outlaw“ HV Racing LiPo

**NEW**

Team Orion has been producing racing batteries for over 25 years. In the 90's we developed the V-Max process to enhance NiMH battery performance and achieve outstanding results at competitions. Now, V-Max battery enhancement technology is back for LiPo batteries. The new Carbon Pro V-Max LiPo batteries have a higher nominal voltage (3.8V vs 3.7V) and can be charged up to 4.35V/Cell. The higher voltage allows for more performance and more capacity for the same battery size.

- Developed by Oscar Jansen and our racing team
- 3.8V nominal voltage (up to 4.35V/cell voltage)
- Extreme power output
- Enhanced Energy Density
- 110C discharge rate
- 5C charge rate
- Heavy duty gold tubes or Deans high current connectors
- High quality silicone wires
- Robust carbon look hard case



### 8000 2S 7.6V Deans

Capacity	8000mAh
Voltage	7.6V (2S)
Configuration	Rectangular Case
Connector	Deans
Dimensions (mm)	139 x 47 x 25.1
Max. Charge Current	5C
Discharge Rate	110C
Weight (g)	335
Part#	ORI14073



### 8000 2S 7.6V Goldstecker

Capacity	8000mAh
Voltage	7.6V (2S)
Configuration	Rectangular Case
Connector	4mm Gold Tube
Dimensions (mm)	139 x 47 x 25.1
Max. Charge Current	5C
Discharge Rate	110C
Weight (g)	330
Part#	ORI14072



### 7600 2S 7.6V Deans

Capacity	7600mAh
Voltage	7.6V (2S)
Configuration	Rectangular Case
Connector	Deans
Dimensions (mm)	139 x 47 x 25.1
Max. Charge Current	5C
Discharge Rate	110C
Weight (g)	330
Part#	ORI14071



### 7600 2S 7.6V Goldstecker

Capacity	7600mAh
Voltage	7.6V (2S)
Configuration	Rectangular Case
Connector	4mm Gold Tube
Dimensions (mm)	139 x 47 x 25.1
Max. Charge Current	5C
Discharge Rate	110C
Weight (g)	325
Part#	ORI14070



### 7500 1S 3.8V

Capacity	7500mAh
Voltage	3.8V (1S)
Configuration	Rectangular Case
Connector	4mm Gold Tube
Dimensions (mm)	93 x 47 x 18.5
Max. Charge Current	5C
Discharge Rate	110C
Weight (g)	155
Part#	ORI14069



### 6500 4S 15.2V Deans

Capacity	6500mAh
Voltage	15.2V (4S)
Configuration	Rectangular Case
Connector	Deans
Dimensions (mm)	139 x 47 x 49
Max. Charge Current	5C
Discharge Rate	110C
Weight (g)	540
Part#	ORI14077



### 5000 2S 7.6V Shorty

Capacity	5000mAh
Voltage	7.6V (2S)
Configuration	Shorty
Connector	4mm Gold Tube
Dimensions (mm)	96 x 47 x 25.1
Max. Charge Current	5C
Discharge Rate	110C
Weight (g)	220
Part#	ORI14076



### 6600 7.6V Saddle Pack

Capacity	6600mAh
Voltage	7.6V (2S)
Configuration	Saddle Pack
Connector	4mm Gold Tube/Deans
Dimensions (mm)	69 x 47 x 25.1
Max. Charge Current	5C
Discharge Rate	110C
Weight (g)	195
Part#	ORI14074/ORI14075

### V-Max LiPo Chemistry

V-Max LiPo batteries can be charged using regular LiPo battery chargers but standard LiPo charge programs use a charge end voltage setting of 4.2V/cell, HV LiPo batteries have increased power and capacity by using a 4.35V/cell charge end voltage. This means that to get maximum performance out of these batteries you must use chargers that have a LiPo HV specific charge mode with a 4.35V/cell charge end voltage.





## V-Max Rocket Packs LiPo HV Stick Batteries

NEW

Our LiPo Rocket pack stick packs are extremely popular all around the world. They offer great performance and Team Orion quality at an affordable price. To make the LiPo HV technology available and affordable for everyone, we are introducing the V-Max LiPo rocket packs. LiPo V-Max batteries have a nominal cell voltage of 3.8V/cell (instead of 3.7V/cell) and can be charged up to 4.35V/cell. Thanks to the increased voltage, V-Max LiPo batteries offer more performance and capacity for the same battery size. We are also introducing a new LED charge status check feature into the V-Max Rocket Packs, this system gives you a visual indication of the battery current charge status. Thanks to this you can easily know which battery is ready for use or not and if they are in a proper state to ensure a safe storage.

- High-performance LiPo battery for RC cars
- LiPo HV Technology for more power and run-time
- LED status control system
- Available with Tamiya and Deans type connectors
- Robust plastic case protects cells from impact damage
- JST-XH balancing connector



**V-Max 3000 55C LED Round**

Capacity	3000mAh
Voltage	7.6V (2S)
Configuration	Round Case
Connector	TAM
Dimensions (mm)	139 x 47 x 25.1
Max. Charge Current	3C
Discharge Rate	55C
Weight (g)	175
Part#	ORI14078



**V-Max 4000 55C LED Round**

Capacity	4000mAh
Voltage	7.6V (2S)
Configuration	Round Case
Connector	Deans
Dimensions (mm)	139 x 47 x 25.1
Max. Charge Current	3C
Discharge Rate	55C
Weight (g)	205
Part#	ORI14079



**V-Max 5200 55C LED Rectangular**

Capacity	5200mAh
Voltage	7.6V (2S)
Configuration	Rectangular Case
Connector	Deans
Dimensions (mm)	139 x 47 x 25.1
Max. Charge Current	3C
Discharge Rate	55C
Weight (g)	245
Part#	ORI14080

## World's first!

By pressing the LED status checker button, you can instantly know the charge status of your V-Max Rocket pack. LiPo batteries must not be stored full or empty but charged at about 50% of their capacity.



### V-Max LiPo Chemistry

V-Max LiPo batteries can be charged using regular LiPo battery chargers but standard LiPo charge programs use a charge end voltage setting of 4.2V/cell, HV LiPo batteries have increased power and capacity by using a 4.35V/cell charge end voltage. This means that to get maximum performance out of these batteries you must use chargers that have a LiPo HV specific charge mode with a 4.35V/cell charge end voltage.



## 2S Rocket Sport Lipo 7.4V LiPo Stick Packs

The Rocket Sport LiPo 2S batteries offer high performance with a friendly price for everybody. LiPo batteries have tremendous advantages compared to the standard NiMH packs which are commonly sold with the popular RTR kits. The LiPo chemistry delivers more power and longer run times. Additionally LiPo batteries are 35% lighter than NiMH packs. Once charged the Lipos store the charged capacity until the battery is used, self discharge is very low.

The Rocket Sport LiPo batteries are also available with the Uni Plug System. This adapter makes the battery compatible with all the popular connector types. No matter the car, your battery will fit!

- Latest LiPo Technology
- 25C Discharge Rate
- 50% more powerful and 35% lighter than equivalent NiMH batteries.
- Longer run-times than equivalent NiMH batteries
- Robust hard plastic case protects cells from impact damage
- Available with Uni Plug System, TRX, Deans, Tamiya and EC3 compatible
- For any type of model

### Battery Profile

The 7.4V Rocketsport LiPo batteries have the same shape as standard NiMH stick packs.



### 2400 7.4V 2S

Capacity	2400mAh
Voltage	7.4V (2S)
Configuration	Stick
Connector	Uni Plug (Deans, TRX, EC3, Tamiya)
Dimensions (mm)	138.2x45.7x24.6
Max. Charge Current	1C
Discharge Rate	25C
Uni Plug System	ORI14169
Tamiya-Plug	ORI14160
Deans-Plug	ORI14163
TRX-Plug	ORI14166



### 3300 7.4V 2S

Capacity	3300mAh
Voltage	7.4V (2S)
Configuration	Stick
Connector	Uni Plug (Deans, TRX, EC3, Tamiya)
Dimensions (mm)	138.2x45.7x24.6
Max. Charge Current	1C
Discharge Rate	25C
Uni Plug System	ORI14170
Tamiya-Plug	ORI14161
Deans-Plug	ORI14164
TRX-Plug	ORI14167



### 4200 7.4V 2S

Capacity	4200mAh
Voltage	7.4V (2S)
Configuration	Stick
Connector	Uni Plug (Deans, TRX, EC3, Tamiya)
Dimensions (mm)	138.2x45.7x24.6
Max. Charge Current	1C
Discharge Rate	25C
Uni Plug System	ORI14171
Tamiya-Plug	ORI14162
Deans-Plug	ORI14165
TRX-Plug	ORI14168



Rocket packs fit NiMH sized battery compartments.



The Rocket Pack 2 LiPo batteries feature the Uni Plug System. This adapter makes the battery compatible with the most popular connector types. No matter the car, your battery will fit!





## 3S Rocket Sport Lipo 11.1V LiPo Stick Packs

The Rocket Sport LiPo 3S batteries, offer high performance at a bargain price. Upgrading to a 3S LiPo battery is the easiest way to drastically improve your car's performance: the higher voltage brings you better acceleration and higher overall performance. The 3200mAh version is manufactured using a 2S size case, this means that the battery will fit cars which would originally be limited to 2S size batteries. The 3500mAh and 4300mAh batteries use a thicker case which requires 3S compatible cars. The new Rocket Sport LiPo batteries are also available with the Uni Plug System. This adapter makes the battery compatible with all the popular connector types.

- Latest LiPo Technology
- 25C Discharge Rate
- 3200mAh version first regular battery compartments
- 3500-4300mAh versions, for cars compatible with 3S LiPo batteries.
- 50% more powerful and 35% lighter than equivalent NiMH batteries.
- Longer run-times than equivalent NiMH batteries
- Robust hard plastic case protects cells from impact damage
- For any type of model

### Battery Profile

The 11.1V Rocketsport LiPo batteries have a rectangular shape, allowing for higher capacity and voltage.



### 3S battery in 2S case: 3200mAh 11.1V 3S

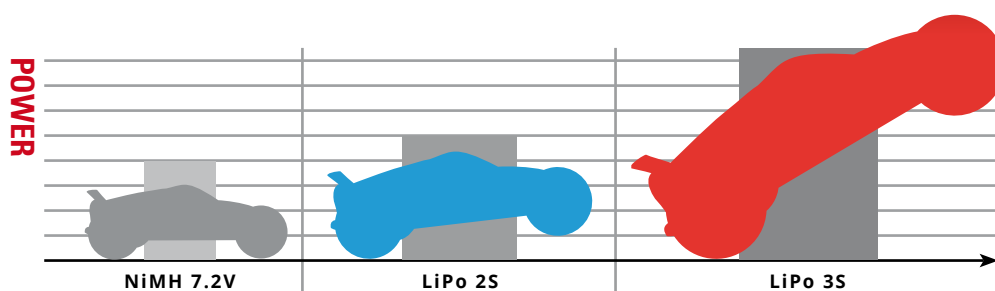
Capacity	3200mAh
Voltage	11V (3S)
Configuration	Stick, rectangular
Connector	Uni Plug (Deans, TRX, EC3, Tamiya)
Dimensions (mm)	138.5x46.5x24.5
Max. Charge Current	1C
Discharge Rate	25C
Uni Plug System	ORI14199
Tamiya-Plug	ORI14196
Deans-Plug	ORI14197
TRX-Plug	ORI14198

### 3500mAh 11.1V 3S

Capacity	3500mAh
Voltage	11.1V (3S)
Configuration	Stick, rectangular
Connector	Uni Plug (Deans, TRX, EC3, Tamiya)
Dimensions (mm)	138.5x46.5x31
Max. Charge Current	1C
Discharge Rate	25C
Uni Plug System	ORI14195
Tamiya-Plug	ORI14192
Deans-Plug	ORI14193
TRX-Plug	ORI14194

### 4300mAh 11.1V 3S

Capacity	4300mAh
Voltage	11.1V (3S)
Configuration	Stick, rectangular
Connector	Uni Plug (Deans, TRX, EC3, Tamiya)
Dimensions (mm)	138.5x46.5x31
Max. Charge Current	1C
Discharge Rate	25C
Uni Plug System	ORI14191
Tamiya-Plug	ORI14188
Deans-Plug	ORI14189
TRX-Plug	ORI14190



By using a LiPo battery instead of a NiMH battery, you can greatly increase the performance of your car. Using a 3S LiPo instead of a 2S Lipo again increases the performance by up to 50%. Before using a 3S LiPo battery you must read your car's user manual and make sure that the ESC is compatible with 3S LiPo batteries.

## Carbon LiPo Sport Special Batteries for Traxxas® 1/16 and 1/10 Scale Cars!

The Carbon LiPo Sport batteries have a special case which is designed to fit the battery compartments of Traxxas® cars. The custom shape allows to maximize the capacity and the performance of the battery. This gives you extra runtime and better overall performance.

LiPo batteries have many advantages over the standard NiMH cells: The Lithium chemistry delivers more power and longer run times. Additionally LiPo batteries are 35% lighter than NiMH packs. You don't need to modify anything on the car, the battery and connectors are a perfect fit!

- Robust hard plastic case protects cells from impact damage
- Specifically made for Traxxas cars
- Up to 45C discharge rate
- 2S and 3S versions
- For Traxxas® 1/10 and 1/16 cars

### For Traxxas® 1/10 E-Revo and Summit



#### 1/10 4000 45C 7.4V

Capacity	4000mAh
Voltage	2S
Configuration	Traxxas 1/10
Connector	TRX
Dimensions (mm)	180x49x29
Max. Charge Current	3C
Discharge Rate	45C
Part#	ORI14177



#### 1/10 3500 45C 11.1V

Capacity	3500mAh
Voltage	3S
Configuration	Traxxas 1/10
Connector	TRX
Dimensions (mm)	180x49x29
Max. Charge Current	3C
Discharge Rate	45C
Part#	ORI14179

### For Traxxas E-Revo 1/16



#### 1/16 1800 45C 7.4V

Capacity	1800mAh
Voltage	2S
Configuration	Traxxas 1/16
Connector	TRX
Dimensions (mm)	101.6 x 35 x 20mm
Max. Charge Current	3C
Discharge Rate	45C
Part#	ORI14181



#### 1/10 5000 45C 7.4V

Capacity	5000mAh
Voltage	2S
Configuration	Traxxas 1/10
Connector	TRX
Dimensions (mm)	180x49x29
Max. Charge Current	3C
Discharge Rate	45C
Part#	ORI14178



#### 1/10 4500 45C 11.1V

Capacity	4500mAh
Voltage	3S
Configuration	Traxxas 1/10
Connector	TRX
Dimensions (mm)	180x49x29
Max. Charge Current	3C
Discharge Rate	45C
Part#	ORI14180



#### 1/16 1200 45C 11.1V

Capacity	1200mAh
Voltage	3S
Configuration	Traxxas 1/16
Connector	TRX
Dimensions (mm)	101.6 x 35 x 20mm
Max. Charge Current	3C
Discharge Rate	45C
Part#	ORI14182





## Carbon FLX LiPo Batteries Special Batteries for the HPI Savage Flux

The Carbon FLX LiPo batteries are specifically designed for the HPI Savage Flux Monster Truck. Thanks to the custom case design, capacity and performance are maximized. This gives you extra runtime and better overall performance.

LiPo batteries have many advantages over the standard NiMH cells: The Lithium chemistry delivers more power and longer run times. Additionally LiPo batteries are 35% lighter than NiMH packs. You don't need to modify anything on the car, the battery and connectors are a perfect fit!

- Carbon look special hard case
- Maximized capacity
- Up to 45C discharge rate
- 2S and 3S versions
- For HPI® Savage Flux

### 2 Cells 7.4V



#### Carbon FLX 6000 | 45C | 7.4V

Capacity	6000mAh
Voltage	2S
Configuration	Savage Flux
Connector	Deans
Dimensions (mm)	197x51.2x29
Max. Charge Current	3C
Discharge Rate	45C
Weight (g)	404
Part#	ORI14173



#### Carbon FLX 4000 | 45C | 7.4V

Capacity	4000mAh
Voltage	2S
Configuration	Savage Flux
Connector	Deans
Dimensions (mm)	197x51.2x29
Max. Charge Current	3C
Discharge Rate	45C
Weight (g)	288
Part#	ORI14172



#### Carbon FLX 8000 | 45C | 7.4V

Capacity	8000mAh
Voltage	2S
Configuration	Savage Flux
Connector	Deans
Dimensions (mm)	197x51.2x29
Max. Charge Current	3C
Discharge Rate	45C
Weight (g)	476
Part#	ORI14174

### 3 Cells 11.1V



#### Carbon FLX 6000 | 45C | 11.1V

Capacity	6000mAh
Voltage	3S
Configuration	Savage Flux
Connector	Deans
Dimensions (mm)	197x51.2x29
Max. Charge Current	3C
Discharge Rate	45C
Weight (g)	496
Part#	ORI14176



#### Carbon FLX 4000 | 45C | 11.1V

Capacity	4000mAh
Voltage	3S
Configuration	Savage Flux
Connector	Deans
Dimensions (mm)	197x51.2x29
Max. Charge Current	3C
Discharge Rate	45C
Weight (g)	381
Part#	ORI14175



Perfect fit : the battery is specifically designed for the Savage Flux battery holder. Thanks to this, capacity and performance are maximized.



## Led Voltage Control Batteries

NEW

### Soft case LiPo Batteries

Knowing the charge status of your LiPo batteries is important but it also requires that you have the equipment with you to do it. To make your life easier, we have designed a simple LED voltmeter and integrated it directly into the LiPo battery design. This way you don't have to worry about carrying extra electronics. To find out the charge status of your battery, simply press the button located on the circuit board and check the LED readout. The LED will indicate if the battery is fully charged, 75% charged, 50% charged (for storage) or empty. The latest lithium polymer battery technology has been used for this new range of soft case batteries. They can handle discharge rates of up to 50C and charge rates of up to 5C, offering outstanding performance for all applications. These batteries are available in variety of capacities, sizes and connectors.

- Innovative LED Charge Status Control System
- Up to 50C discharge Rate
- Up to 5C charge Rate
- Wide range of capacities, configurations and connectors
- Latest Lithium Polymer technology
- Improved Cycle Life and Cell stability

NEW

NEW

Capacity (mAh)	Cells	C-Rate	Dimensions (mm)	Weight (g)	LED	Deans Connector	XT60 Connector	XT90 Connector	EC3 Connector	EC5 Connector	JST Connector	Dimensions (mm)	Weight (g)
1300	3S	50C	102 x 31.5 x 21	115	•	ORI60234					ORI60130 800, 2S, 50C	14.5 x 31 x 72	70
1300	4S	50C	101 x 31 x 27.5	145	•	ORI60235	ORI60236				ORI60131 800, 3S, 50C, LED	20.5 x 31 x 72	94
1600	2S	50C	19 x 31 x 94	108		ORI60138	ORI60144		ORI60141		ORI60132 1000, 2S, 50C	16 x 31 x 72	77
1600	3S	50C	27 x 31 x 94	147	•	ORI60139	ORI60145		ORI60142		ORI60133 1000, 3S, 50C, LED	23 x 31 x 72	103
1600	4S	50C	35 x 31 x 94	187	•	ORI60140	ORI60146		ORI60143		ORI60134 1000, 4S, 50C, LED	30 x 31 x 72	127
1800	2S	50C	17 x 35 x 108	119	•	ORI60147	ORI60153		ORI60150		ORI60135 1300, 2S, 50C	15.5 x 31 x 97	91
1800	3S	50C	23.5 x 35 x 108	163	•	ORI60148	ORI60154		ORI60151		ORI60136 1300, 3S, 50C, LED	21.5 x 31 x 97	122
1800	4S	50C	30 x 35 x 108	207	•	ORI60149	ORI60155		ORI60152		ORI60137 1300, 4S, 50C, LED	27.5 x 31 x 97	153
2200	2S	50C	19 x 35 x 108	134	•	ORI60156	ORI60162		ORI60159				
2200	3S	50C	27 x 35 x 108	185	•	ORI60157	ORI60163		ORI60160				
2200	4S	50C	35 x 35 x 108	237	•	ORI60158	ORI60164		ORI60161				
2700	2S	50C	20.5 x 35 x 118	166	•	ORI60165	ORI60171		ORI60168				
2700	3S	50C	29 x 35 x 118	228	•	ORI60166	ORI60172		ORI60169				
2700	4S	50C	37 x 35 x 119	291	•	ORI60167	ORI60173		ORI60170				
3500	2S	50C	19 x 44 x 140	229	•	ORI60174	ORI60180		ORI60177				
3500	3S	50C	27 x 44 x 140	319	•	ORI60175	ORI60181		ORI60178				
3500	4S	50C	35 x 44 x 141	411	•	ORI60176	ORI60182		ORI60179				
4000	2S	50C	21 x 44 x 140	252	•	ORI60183	ORI60189		ORI60186				
4000	3S	50C	30 x 44 x 140	353	•	ORI60184	ORI60190		ORI60187				
4000	4S	50C	39 x 44 x 141	457	•	ORI60185	ORI60191	ORI60216	ORI60188	ORI60219			
4000	5S	50C	145 x 44 x 43	535	•			ORI60217		ORI60220			
4000	6S	50C	145 x 43.5 x 52	635	•			ORI60218		ORI60221			
4400	2S	50C	20 x 46 x 147	281	•	ORI60192	ORI60198		ORI60195				
4400	3S	50C	28 x 46 x 147	388	•	ORI60193	ORI60199		ORI60196				
4400	4S	50C	36.5 x 46 x 148	498	•	ORI60194	ORI60200	ORI60222	ORI60197	ORI60225			
4400	5S	50C	152 x 47 x 41	545	•			ORI60223		ORI60226			
4400	6S	50C	152 x 47 x 48	650	•			ORI60224		ORI60227			
5300	2S	50C	21.3 x 46 x 162	330	•	ORI60201	ORI60211		ORI60206				
5300	3S	50C	30.5 x 46 x 162	459	•	ORI60202	ORI60212		ORI60207				
5300	4S	50C	39 x 46 x 163	593	•	ORI60203	ORI60213	ORI60228	ORI60208	ORI60231			
5300	5S	50C	48 x 46 x 164	722	•	ORI60204	ORI60214	ORI60229	ORI60209	ORI60232			
5300	6S	50C	57 x 46 x 165	856	•	ORI60205	ORI60215	ORI60230	ORI60210	ORI60233			

## LED Voltage Control System explained



- Full (100%)
- Partially charged (75%)
- Storage (50%)
- Function OK / Empty

The LED Voltage Control System allows you to quickly and easily check the charge status of the LiPo battery. All you need to do is press on the button located on the circuit board and the LED will lit according to the battery voltage.

## Connectors



EC3



EC5



Deans



XT60



XT90



JST





## „Racing Drone“ LiPo Batteries High power Drone Batteries

**NEW**

The new Racing Drone LiPo batteries are designed for high-performance drones. They use the latest LiPo technology and we have selected their format so that they perfectly fit racing drones allowing for the best weight/performance ratio possible. The batteries are fitted with our exclusive LED voltage control system so that you can easily check their charge status at any time. With a discharge rate of up to 75C and the use of a high-current XT60 connector these LiPo batteries can deal with the most demanding applications.

- Specifically designed for racing drones
- Ideal weight/performance ratio
- Latest Lithium Polymer technology
- High power LiPo cells
- Up to 75C discharge Rate
- Up to 5C charge Rate
- Innovative LED Charge Status Control System
- XT60 high current connector



### 1300 3S 11.1V

Capacity	1300mAh
Voltage	11.1V (3S)
Configuration	Softcase
Connector	XT60
Dimensions (mm)	71 x 24 x 21
Max. Charge Current	5C
Discharge Rate	75C
Weight (g)	125
Part#	ORI60243



### 1300 4S 14.8V

Capacity	1300mAh
Voltage	14.8V (4S)
Configuration	Softcase
Connector	XT60
Dimensions (mm)	72 x 34 x 28
Max. Charge Current	5C
Discharge Rate	75C
Weight (g)	155
Part#	ORI60244



### 1600 3S 11.1V

Capacity	1600mAh
Voltage	11.1V (3S)
Configuration	Softcase
Connector	XT60
Dimensions (mm)	74.5 x 35.5 x 26
Max. Charge Current	5C
Discharge Rate	75C
Weight (g)	130
Part#	ORI60239



### 1600 4S 14.8V

Capacity	1600mAh
Voltage	14.8V (4S)
Configuration	Softcase
Connector	XT60
Dimensions (mm)	74.5 x 35.5 x 35
Max. Charge Current	5C
Discharge Rate	75C
Weight (g)	175
Part#	ORI60240



### 1800 3S 11.1V

Capacity	1800mAh
Voltage	11.1V (3S)
Configuration	Softcase
Connector	XT60
Dimensions (mm)	105 x 37 x 19
Max. Charge Current	5C
Discharge Rate	75C
Weight (g)	160
Part#	ORI60241



### 1800 4S 14.8V

Capacity	1800mAh
Voltage	14.8V (4S)
Configuration	Softcase
Connector	XT60
Dimensions (mm)	104 x 33 x 25
Max. Charge Current	5C
Discharge Rate	75C
Weight (g)	200
Part#	ORI60242



### 2300 3S 11.1V

Capacity	2300mAh
Voltage	11.1V (3S)
Configuration	Softcase
Connector	XT60
Dimensions (mm)	105 x 33 x 22
Max. Charge Current	5C
Discharge Rate	55C
Weight (g)	185
Part#	ORI60237



### 2300 4S 14.8V

Capacity	2300mAh
Voltage	14.8V (4S)
Configuration	Softcase
Connector	XT60
Dimensions (mm)	105 x 33 x 28
Max. Charge Current	5C
Discharge Rate	55C
Weight (g)	230
Part#	ORI60238

## LED Voltage Control System explained



- Full (100%)
- Partially charged (75%)
- Storage (50%)
- Function OK / Empty

The LED Voltage Control System allows you to quickly and easily check the charge status of the LiPo battery. All you need to do is press on the button located on the circuit board and the LED will lit according to the battery voltage.

## Connector



XT60



## Rocket Sport 2 NiMH NiMH Tuning Batteries with High Capacity and Voltage

The Rocket Sport 2 stick packs are manufactured using the latest NiMH battery technology for high capacities and voltage. Thanks to this you can enjoy longer runtime and more power having more fun with your racing vehicles. The batteries come with ultra flexible, high quality silicone wires and a wide choice of connectors. No soldering or modifications are needed to install the packs in the chassis which makes the purchase of a tuning battery one of the easiest ways to improve your car's performance. The new Rocket Pack 2 NiMh batteries are the first to be available with the Uni Plug System. This adapter makes the battery compatible with all the popular connector types. No matter the car, your battery will fit!

- Latest NiMH technology
- With Tamiya®, Deans®, TRX® or Venom® Uni Plug System
- High quality silicone wire
- Proven Team Orion quality
- For cars, boats and planes



The Rocket Pack 2 NiMh batteries feature the Venom® Uni Plug System. This adapter makes the battery compatible with all the popular connector types: Tamiya®, Deans®, TRX®, EC3



### 1800 7.2V

Capacity	1800mAh
Voltage	7.2V
Configuration	Stick
Dimensions (mm)	135x45x23
Weight (g)	281
Uni Plug System	ORI10368
Tamiya-Plug	ORI10350
Deans-Plug	ORI10356
TRX-Plug	ORI10362



### 2700 7.2V

Capacity	2700mAh
Voltage	7.2V
Configuration	Stick
Dimensions (mm)	135x45x23
Weight (g)	326
Uni Plug System	ORI10369
Tamiya-Plug	ORI10351
Deans-Plug	ORI10357
TRX-Plug	ORI10363



### 3700 7.2V

Capacity	3700mAh
Voltage	7.2V
Configuration	Stick
Dimensions (mm)	135x46x23
Weight (g)	381
Uni Plug System	ORI10370
Tamiya-Plug	ORI10352
Deans-Plug	ORI10358
TRX-Plug	ORI10364



### 4200 7.2V

Capacity	4200mAh
Voltage	7.2V
Configuration	Stick
Dimensions (mm)	135x47x24
Weight (g)	395
Uni Plug System	ORI10371
Tamiya-Plug	ORI10353
Deans-Plug	ORI10359
TRX-Plug	ORI10365



### 4700 7.2V

Capacity	4700mAh
Voltage	7.2V
Configuration	Stick
Dimensions (mm)	135x47x24
Weight (g)	400
Uni Plug System	ORI10372
Tamiya-Plug	ORI10354
Deans-Plug	ORI10360
TRX-Plug	ORI10366



### 5100 7.2V

Capacity	5100mAh
Voltage	7.2V
Configuration	Stick
Dimensions (mm)	140x47x24
Weight (g)	431
Uni Plug System	ORI10373
Tamiya-Plug	ORI10355
Deans-Plug	ORI10361
TRX-Plug	ORI10367



## Supercharge Packs NiMH Tuning Batteries for 1/16 Scale Vehicles

The Supercharge NiMH batteries are specifically designed for the Traxxas® 1/16 E-Revo® VXL and 1/16 Slash® VXL cars. They use high voltage NiMH cells and are fitted with a TRX® connector.

- Batteries for micro cars
- High voltage cells
- Latest nimh technology
- Trx® connector



## Supercharge 1600mAh 7.2V Maximal runtime

The Supercharge NiMH batteries are specifically designed for the Traxxas® 1/16 E-Revo® VXL and 1/16 Slash® VXL cars. They use high voltage NiMH cells and are fitted with a TRX® connector. Using the Traxxas® Series Connector you can use two batteries together and achieve a voltage of 14.4V!

- Latest 1600mAh Team Orion NiMH cells
- Perfect fit inside the 1/16 E-Revo® VXL and 1/16 Slash® VXL cars
- TRX® high power connector
- High quality 16awg silicone wire
- Longer runtime
- Faster acceleration
- Higher top speed



### TECHNICAL SPECIFICATIONS

Capacity	1600mAh	Connector	TRX
Voltage	7.2V (3S)	Dimensions (mm)	138.5x46.5x31mm
Configuration	Stick	Part#	ORI13002

## Supercharge 1300mAh 8.4V Maximal power

The Supercharge NiMH batteries are specifically designed for the Traxxas® 1/16 E-Revo® VXL and 1/16 Slash® VXL cars. They use high voltage NiMH cells and are fitted with a TRX® connector. Thanks to a specially designed smaller size cells, you can now fit a 8.4V battery inside your battery compartments. This means more power and more fun!

- Special 1300mAh Team Orion NiMH cells
- Perfect fit inside the 1/16 E-Revo® VXL and 1/16 Slash® VXL cars
- TRX® high power connector
- High quality 16awg silicone wire
- Longer runtime
- Faster acceleration
- Higher top speed



### TECHNICAL SPECIFICATIONS

Capacity	1300mAh	Connector	TRX
Voltage	8.4V (3S)	Dimensions (mm)	138.5x46.5x31mm
Configuration	Stick	Part#	ORI13003



## AA/AAA EZ

### Pre-charged, Rechargeable AA/AAA Batteries for Versatile Applications

The EZ AA and AAA batteries are pre-charged when you buy them, this means that you can use them right away without having to charge them beforehand. They also have a slower self-discharge rate, even when you don't use them, they will not become empty as fast as regular NIMH cells. Ideal for all types of applications.

- Pre-charged batteries
- Rechargeable
- AA and AAA size
- Low self-discharge rate
- For all types of applications



#### EZ800 AAA Pre-Charged Batteries (4)

Capacity	800mAh
Voltage	1.25V
Weight (g)	12
Part#	ORI13205



#### EZ2100 AA Pre-Charged Batteries (4)

Capacity	2100mAh
Voltage	1.25V
Weight (g)	27
Part#	ORI13503



#### Alkaline AAA Batteries

Voltage	1.5V
Size	AAA
Part#	ORI13601



#### Alkaline AA Batteries

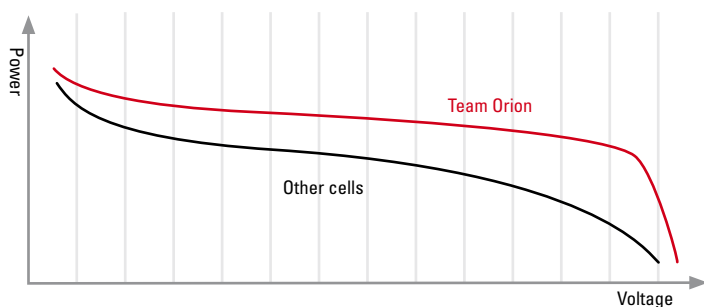
Voltage	1.5V
Size	AA
Part#	ORI13600

## AA/AAA Alkaline

### Alkaline Batteries for Hundreds of Applications

High quality Alkaline batteries for any type of application.

- Alkaline technology
- High power and capacity
- AA and AAA size
- Proven team orion quality
- For all types of applications



The Team Orion batteries have a very flat discharge curve. This means stable power for your devices, from the start until the end.





#### 750SHO AAA Batteries

Capacity	750mAh
Voltage	1.24V
Dimensions	Ø10x44mm
Part#	ORI13206

## 750 SHO Extreme Racing V-Max AAA AAA NiMH Racing Batteries

The 750 SHO cells are our most powerful AAA NiMH cells. They are ideal for use in Kyosho Mini-Z cars or any other application that requires maximum performance.

Designed for the most demanding racers!

- NiMH technology
- 750mAh
- Very high power
- Designed for high-performance applications such as Kyosho Mini-Z cars



#### 900HV AAA Batteries

Capacity	900mAh
Voltage	1.24V
Dimensions	Ø10x44mm
Part#	ORI13202

## 900 HV NiMH AAA AAA NiMH High Voltage Batteries

The 900HV AAA cells offer the best balance between power and capacity. They are ideal for use in Kyosho Mini-Z cars or other applications that require powerful batteries.

- NiMH technology
- 900mAh
- High power
- Designed for high-performance applications such as Kyosho Mini-Z cars



#### 1100RT AAA Batteries

Capacity	1100mAh
Voltage	1.24V
Dimensions	Ø10x44mm
Part#	ORI13201

## 1100 HV NiMH AAA AAA NiMH High Voltage Batteries

The 1100RT AAA NiMH cells are designed for general use. Thanks to their high capacity, they can supply power for a longer period of time. Ideal for general applications and those that want maximum capacity.

- NiMH technology
- 1100mAh
- High capacity
- For all types of applications



#### 2700 AA Batteries

Capacity	2700mAh
Voltage	1.24V
Dimensions	Ø13x49mm
Part#	ORI13502

## 2700 HV AA AA NiMH High Power Batteries

The 2700 AA size NiMH batteries, are very high capacity general use batteries.

You can use them to power your transmitters your servos or receivers. Thanks to their high capacity they will supply long lasting reliable power.

- NiMH technology
- 2700mAh
- High capacity
- For all types of applications





WATERPROOF



## VDS2-HV Digital Servo 7.4V Standard Size Digital High-Voltage Servos

The Vortex VDS2-HV digital servos are high performance servos, designed for the most demanding users. These servos work with 6V and 7.4V, which means that they are NiMH, LiFe and LiPo compatible. They use full metal gears, dual ball bearings and coreless motors. A high grade waterproof composite/aluminum case encases all the components. The VDS2-HV 2607 is built for high torque applications such as 1/8 cars and monster trucks, the VDS2-HV 1605 version is designed for 1/10 scale applications.

No matter your application or whether you are a basher or a racer, one of these two servos will suit your needs!

- Work with 6V to 7.4V (NiMH/LiFe/LiPo)
- Coreless motor
- Dual ball bearing
- Precision metal gears
- High grade aluminum/composite case
- Waterproof
- 25 tooth Futaba type servo horn
- JR type servo plug
- Speed version
- Torque version



Vortex VDS2-HV 1605 High-Speed Servo  
(ORI68026)

### Vortex VDS2-HV 1605 High-Speed Servo (ORI68026)

Name	VDS2-HV 1605
Part#	ORI68026
Plug	JR Gold
Weight	62g
Size	40(H)x20(W)x41(L)mm
Motor	Coreless
Voltage (V)	7.4
Gears	Full metal
Ball Bearings	Dual
Spline	25 T



Vortex VDS2-HV 2607 High-Torque Servo  
(ORI68027)

### Vortex VDS2-HV 2607 High- Torque Servo (ORI68027)

Name	VDS2-HV 2607
Part#	ORI68027
Plug	Gold
Weight	62g
Size	40(H)x20(W)x41(L)mm
Motor	Coreless
Voltage (V)	7.4
Gears	Full metal
Ball Bearings	Dual
Spline	25 T

#### Spare Parts:



ORI68524 Case  
VDS2-1605HV &  
VDS2-2607HV



ORI68521 Metal Gear Set  
VDS2-1605HV



ORI68522 Metal Gear Set  
VDS2-2607HV



WATERPROOF



## Vortex VDS2-HV XS 1007 7.4V Digital Low Profile Servo

The VDS2-HV XS 1007 is a low profile servo specially designed for 1/10 cars. Whether you run 1/10 electric or 1/10 nitro, this servo will suit your needs. It features a great balance between power and speed which means that you will get good performance whether you are using it on an electric or nitro car. It is manufactured using the same high quality metal gears, coreless motor and waterproof aluminum/composite case as our standard size VDS2-HV servos.

- Works with 6V to 7.4V (NiMH/LiFe/LiPo)
- Coreless motor
- Waterproof
- Dual Ball Bearings
- Precision Metal Gears
- High grade aluminum/composite case



ORI68525 Case  
VDS2-1007HV XS



ORI68520 Metal Gear Set  
VDS2-1007HV XS

#### TECHNICAL SPECIFICATIONS

Torque kg-cm @7.4V	10
Torque oz-in @7.4V	139
Speed /60° @7.4V	0.07s
Plugs	JR Gold
Weight	46g
Size (mm)	26x20.5x41

Motor	Coreless
Voltage/V	4.8-7.4
Gears	Full Metal
Ball bearings	Dual
Spline	25T
Part#	ORI68028

### Charge Leads

NEW



ORI40021 Charge Lead Tamiya



ORI40023 Charge Lead TRX



ORI40032 Charge Lead EC3



ORI40044 Charge Lead EC5



ORI40036 Charge Lead XT60



ORI40040 Charge Lead XT90



ORI40027 Charge Lead Alligator Clips



ORI40025 Charge Lead Futaba/Uni



ORI40026 Charge Lead JR



ORI40031 Charge Lead Kyosho Mini-Inferno



ORI40024 Charge Lead BEC



ORI40058 5mm 2S Pro Balance Ladekabel (45cm, 12AWG/20AWG)  
ORI40059 4mm 2S Pro Balance Ladekabel (45cm, 12AWG/20AWG)



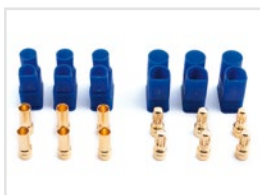
ORI40054 XT30 Ladekabel 18AWG 30cm



#### Silicone Wire

ORI40300 14AWG Silicone Wire  
ORI40304 18AWG Silicone Wire  
ORI40305 10AWG Silicone Wire  
ORI40302 12AWG Silicone Wire

### Connectors



ORI40033 EC3 Plug (3 Pair)



ORI40034 EC3 Connectors (6 Pcs)



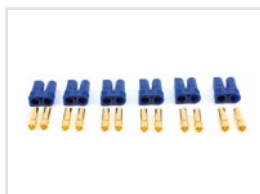
ORI40035 EC3 Female Connectors (6 Pcs)



ORI40045 EC5 Connectors (3 Pair)



ORI40046 EC5 Connectors (6 Pcs)



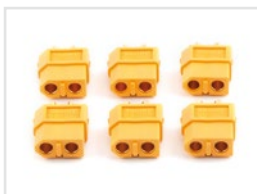
ORI40047 EC5 Female Connectors (6 Pcs)



ORI40037 XT60 Connectors (3 Pair)



ORI40038 XT60 Connectors (6 Pcs)



ORI40039 XT60 Female Connectors (6 Pcs)



ORI40041 XT90 Connectors (3 Pair)



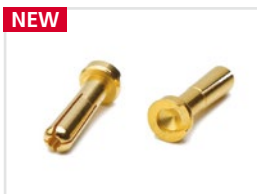
ORI40042 XT90 Connectors (6 Pcs)



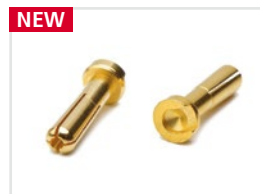
ORI40043 XT90 Female Connectors (6 Pcs)



ORI40053 XT30 Connectors set (3 Paar)



ORI40055 4mm Gold Connector low profile (2pcs)



ORI40056 5mm Gold Connector low profile (2pcs)

### Sonstige Kabel



ORI40050 JST/BEC Verlängerungskabel Soft Silicone Wire (10cm)



ORI40051 Futaba Verlängerungskabel 15cm 26AWG (30cm)



ORI40052 Futaba Verlängerungskabel (15cm)



ORI40048 JST/BEC Buchse mit 20AWG Silikon-Kabel



ORI40049 JST/BEC Stecker mit 20AWG Silikon-Kabel





## Advantage Touch Duo V-Max NEW AC/DC Dual Output Touch Charger

Our range of Advantage Touch chargers has been successful all around the world. The Duo Touch version with dual charge outputs instantly became a bestseller, it has everything that the serious RC hobbyist needs. For 2016 we have updated the Touch Duo by adding a LiPo HV charge mode. LiPo HV batteries, like our LiPo V-Max batteries, require a charge end voltage of 4.35V/cell (vs 4.2V/cell for regular LiPo). The 200W integrated power supply allows charge currents of up to 10A and fast charging of any type of battery. You can simultaneously charge, discharge, store, cycle or balance any combination of LiPo/LiPo HV/LiFe/NiMH/NiCd/Pb batteries. The interface is equipped with a top navigation bar that allows you to easily switch between the two channels and a split view allows you to display simultaneously the data from both channels. As it's the case with the other Advantage Touch chargers, the duo also features advanced setup possibilities, balancing, discharge and storage functions and a graphic engine to display charge and discharge curves. The charger is also equipped with a USB connector that allows the user to install future firmware upgrades.



### TECHNICAL SPECIFICATIONS

Part Numbers	ORI30296 EU, ORI30297 UK, ORI30298 USA ORI30299 CH, ORI30300 JP, ORI30301 AU
AC Input voltage	100-120VAC/200-240VAC
DC Input voltage	11.0-18.0VDC
Charge current	0.1-10.0A x2
Discharge current	0.1-5.0A x2
Charge power	Max. 100W x2
Discharge power	Max. 15W x2
Balance current	250mA
Balance tolerance	±0.01V
NiCd/NiMH batteries	1.2-19.2V, 1-16cells
Lithium batteries	LiPo, LiPo HV, LiFe 3.3V-22.8V 1-6S
Pb batteries	2-20V
Dimensions	L202 x W190 x H74mm
Weight	1340g

### TITLES



World Champion



Multi-time US National Champion



Multi-time National Champion



Balancing charge lead for racing batteries with gold tubes, especially made for our touch screen chargers, extra long:  
ORI40058 5mm 25 Pro Balance Charge Lead (45cm, 12AWG/20AWG)  
ORI40059 4mm 25 Pro Balance Charge Lead (45cm, 12AWG/20AWG)

NEW

### Packaging Contents:

- Advantage Touch Duo V-Max Charger w/power cord
- 2x 4-in-1 Balancing Board (XH, TP/FP, EH and HP/PQ)
- 2x Deans charge leads (USA: 2x EC3 charge leads)
- USB cable for firmware upgrade
- Instruction manual and Quick Start User Guide



## Advantage Touch Pro Professional DC Charging System

The Advantage Touch Pro is designed for those that require high power charging and discharging. It can charge your batteries with up to 10A and discharge them with up to 20A. The Advantage Touch Pro charge is our most powerful touch technology charger. It can charge and discharge your batteries at a high rate allowing you to squeeze out the maximum performance out of your batteries. A must for the serious competitors!

### TECHNICAL SPECIFICATIONS

Part Number	ORI30205
Input:	11-18VDC
Integrated power supply:	No
Charge:	0.1-12A, max. 150W
Discharge:	0.1-20A, max. 100W
Cells:	NiMH/NiCd 1-15 cells
	LiPo/LiFe/LiIon 1-6C
	Pb 2-20V
Size:	L170xW158xH45mm
Weight:	840g

- 150W charge / 100W discharge power
- 12A max. charge current, 20A max. discharge current
- Settings memory function
- Charges 1-6S LiPo/LiFe/LiIon, 1-16 cell NiMH/NiCd and 1-20 cell Pb batteries
- Charge setup assistant
- Multi-lingual interface - 6 languages pre-installed!
- Graphic charge/discharge display
- Graphic balancing display
- 4-in-1 Balancing Board
- Dual Input - 11-18VDC / 100-240VAC





## Advantage Touch V2 55W AC/DC Touch Screen Charger

The Touch Advantage charger has been a planetary success for Team Orion. Thanks to the touch interface the Advantage Touch charger is very easy to use even for those who are not familiar with battery charging. This multi-purpose charger can charge, discharge, balance and cycle NiMH, NiCd, LiPo, LiFe, Lilon and Pb batteries. It can be powered directly from a mains power outlet and if you are in the move, you can use the auxiliary 12VDC power input to use an external power source such as a car battery. The charger includes a full set of charge leads that makes it compatible with all of the most popular connector types used in RC. A USB port is present on the charger for firmware updates and charge monitoring thanks to the free software available from our website.

- 55W charging power (6A max)
- Settings memory function
- Charges 1-6S LiPo/LiFe/Lilon, 1-16 cell NiMH/NiCd and 1-20 cell Pb batteries
- Charge setup assistant
- Multi-lingual interface - 6 languages pre-installed!
- Graphic charge/discharge display
- Graphic balancing display
- 4-in-1 Balancing Board
- Dual Input 11-18VDC / 100-240VAC

### Packaging Contents:

- Advantage Touch V2 Charger w/power cord
- 4-in-1 Balancing Board (XH, TP/FP, EH and HP/PQ)
- TRX, Deans, Tamiya, crocodile, EC3, BEC and Futaba charge leads
- USB cable for firmware upgrade
- Instruction manual and Quick Start User Guide

### TECHNICAL SPECIFICATIONS

Part Number	ORI30256 EU-Version, ORI30257 UK-Version, ORI30258 USA-Version ORI30259 CH-Version, ORI30260 JP-Version, ORI30265 AU-Version
Input:	11-18VDC 100-240VAC
Integrated power supply:	Yes, 55W
Charge:	0.1-7A
Discharge:	0.1-2A, max. 5W
Cells:	NiMH/NiCd 1-15 cells LiPo/LiFe/Lilon 1-6C Pb 2-20V
Size:	L170xB158xH45mm
Weight:	662g



ORI30196 4-in-1 Balancing Board

A 4-in-1 balancing board is supplied with every touch charger. It's equipped with balance adapters for XH, TP/FP, EH and HP/PQ balancing connectors.

An optional temperature probe available, it allows the user to monitor and control the charge using the battery temperature.



ORI30264 Temp Probe



## Advantage Touch Advance 100W AC/DC Touch Screen Charger

The Advantage Touch Advance is a high power AC/DC charger. Thanks to the integrated 100W power supply, you can obtain charge rates of up to 10A. This multi-purpose charger can charge, discharge, balance and cycle NiMH, NiCd, LiPo, LiFe, Lilon and Pb batteries. Thanks to its touch interface it is very easy to use even for those which are not familiar with battery charging.

- 100W charging power (10A max)
- Settings memory function
- Charges 1-6S LiPo/LiFe/Lilon, 1-16 cell NiMH/NiCd and 1-20 cell Pb batteries
- Charge setup assistant
- Multi-lingual interface - 6 languages pre-installed!
- Graphic charge/discharge display
- Graphic balancing display
- 4-in-1 Balancing Board
- Dual Input - 11-18VDC / 100-240VAC

### Packaging Contents:

- Advantage Touch Charger w/power cord
- 4-in-1 Balancing Board (XH, TP/FP, EH and HP/PQ)
- TRX, Deans, Tamiya, crocodile, EC3, BEC and Futaba charge leads
- USB cable for firmware upgrade
- Instruction manual and Quick Start User Guide

### TECHNICAL SPECIFICATIONS

Part Number	ORI30207 EU-Version, ORI30208 UK-Version, ORI30209 USA-Version, ORI30210 CH-Version, ORI30211 JP-Version, ORI30212 AU-Version
Input:	11-18VDC 100-240VAC
Integrated power supply:	Yes, 100W
Charge:	0.1-10A
Discharge:	0.1-5A, max. 10W
Cells:	NiMH/NiCd 1-15 cells LiPo/LiFe/Lilon 1-6C Pb 2-20V
Size:	L170xB158xH45mm
Weight:	744g



#### TECHNICAL SPECIFICATIONS

Part#	ORI30241 EU, ORI30242 UK, ORI30243 USA, ORI30244 CH, ORI30245 JP, ORI30246 AU
AC Input	100-240VAC
DC Input	12.0V-15.0V
Charge Current:	0.2A-6.0 x2
Charge Power:	max. 50W x2 DC / 40W x2 AC / 1x 60W
Lithium Batteries:	LiPo/LiFe 7.4V – 14.8V 2-4S
NiMH/NiCd:	1.2V – 9.6V 1-8 cells
Dimensions:	L153 x W140 x H60mm
Weight:	500g

## Advantage ONE Duo AC/DC Dual Output Charger

The ONE Duo charger is a mid-range, compact size, dual channel AC/DC charger. Thanks to its dual 50W charge output, you can simultaneously and independently fast charge two batteries. The integrated balancer, ensures that you charge your LiPo/LiFe batteries safely and efficiently and the simple yet functional interface allows for ease of use even by inexperienced users. You can power the charger either by connecting it to a mains power outlet thanks to the integrated power supply or via a 12VDC power source. The charger is compatible with the most popular battery types.

- Compact mid-range AC/DC dual channel charger
- Microprocessor controlled advanced digital circuit
- 2x 10 memory slots for charge settings
- Charges 2-4S LiPo/LiFe and 1-8 cell NiMH/NiCd batteries
- Automatic Delta-Peak cut-off
- Up to 6A of charge current per channel
- 12-15VDC / 100-240VAC input
- Easy handling thanks to back-lit LCD Display and 4 buttons
- Integrated Balancer
- Integrated 100W power supply
- Input/output reverse polarity protection
- Team Orion Design



#### TECHNICAL SPECIFICATIONS

Part#	ORI30220 US, ORI30221 EU, ORI30222 CH, ORI30223 AU, ORI30224 JP, ORI30225 UK
AC Input	100-240VAC
DC Input	12.0V-15.0V
Charge Current:	0.1-6.0A
Lithium Batteries:	LiPo/LiFe 7.4V – 14.8V 2-4S
NiCd/NiMH	1.2V – 9.6V 1-8 cells
Dimensions:	L125xW135xH53.3mm
Weight:	399g

## Advantage One 406 AC/DC Fast Charger with LCD Display

The ONE 406 is the ideal charger for users that need a cost friendly universal charger. Thanks to its integrated power supply, it can use both AC and DC power sources so you can charge your batteries at home or on the field. The integrated balancer ensures that you charge your LiPo/LiFe batteries safely and efficiently. Finally the LCD display allows you to monitor the battery during charge.

- Compact mid-range AC/DC charger
- Microprocessor controlled advanced digital circuit
- 10 memory slots for charge settings
- Charges 2-4S LiPo/LiFe and 1-8 cell NiMH/NiCd batteries
- Automatic Delta-Peak cut-off
- Up to 6A of charge current
- 12-15VDC / 100-240VAC input
- Easy handling thanks to back-lit LCD Display and 4 buttons
- Integrated Balancer
- Integrated power supply
- Input/output reverse polarity protection



#### TECHNICAL SPECIFICATIONS

Part#	ORI30226 US, ORI30227 EU, ORI30228 CH, ORI30229 AU, ORI30230 JP, ORI30231 UK
AC Input	100-240VAC
DC Input	12.0V-15.0V
Charge Current:	1, 2, 3, 4A
Lithium Batteries:	LiPo/LiFe 7.4V – 14.8V 2-4S
NiCd/NiMH	1.2V – 9.6V 1-8 cells
Dimensions:	L125xW135xH53.3mm
Weight:	372g

## Advantage One 405 AC/DC Fast Charger

The Advantage ONE 405 is the ideal charger for RTR cars. Thanks to its integrated power supply, it can use both AC and DC power sources so you can charge your batteries at home or on the field. The integrated balancer ensures that you charge your LiPo batteries safely and efficiently. The charge current is adjustable up to 4A meaning that your batteries will be charged in a breeze. The ideal charger for beginners.

- Compact mid-range AC/DC channel charger
- Microprocessor controlled advanced digital circuit
- Charges 2-4S LiPo/LiFe and 1-8 cell NiMH/NiCd batteries
- Automatic Delta-Peak cut-off
- Up to 4A of charge current
- 12-15VDC / 100-240VAC input
- Easy handling thanks to 4 LEDs and 4 buttons
- Integrated Balancer



## Advantage IQ-4X Management System for NiMH, LiPo and LiFe Micro and AA/AAA Batteries

**NEW**

The Advantage IQ-4X is a high-tech battery management system for AA/AAA NiMH/NiCd batteries and LiPo/LiFe micro batteries. This compact charger can charge, discharge, cycle, refresh and break-in your batteries. This helps you to keep them working optimally and allows you to evaluate their performance. The IQ-4X features four independent channels, which means that different functions and different types of cells can be used simultaneously; such as charging LiPo and NiMH cells at the same time. A large size LCD screen and bright LED, display data and provide function status monitoring. Extra charge settings (LiPo/LiFe charge end voltage, delta-peak, maximum charge temperature) are available, allowing the user to fine tune the charge characteristics. The charger is also equipped with a 5V/1A USB port to recharge mobile devices. The Team Orion design and a wide range of functionalities make this charger a unique product on the market.

### TECHNICAL SPECIFICATIONS

Part#	ORI30250 EU/CH, ORI30251 UK, ORI30252 US, ORI30254 JP, ORI30255 AU
AC Input	110-240VAC
DC Input	11.0V-13.0V
Charge Current	0.1-2.5A x4
Discharge Current	0.1-1.5A x4
Charger Power	max. 6W x4
Discharge Power	max. 1.5W x4
Lithium Batteries	LiPo/LiFe 3.7V/3.3V 1S
NiMH Batteries	1.2V
Dimensions	L155 x W115 x H49mm
Weight	347g

- 4 fully independent charge channels
- Charge/discharge/cycle different types of batteries simultaneously
- Charge, discharge, refresh, break-in, cycle mode
- LCD screen displays charged/discharged capacity, internal resistance, average voltage, charge time, temperature (NiMH only), charge/discharge/cycle history
- Compatible with NiMH/NiCd AAA/AA batteries and single cell 3.7/3.3V LiPo/LiFe batteries
- Equipped with Mini-Z LiFe and Ultra Micro LiPo connectors
- Adjustable Delta Peak Auto Cut-Off for NiMH/NiCd batteries
- Adjustable charge end voltage
- USB 5.0V/1A port for charging mobile devices
- Adapter cables for JST, flat micro and square micro connectors available separately

Connector Adapter for Micro LiPo Batteries:



ORI30261 IQ-4X JST Connector Adapter (4pcs)



ORI30262 IQ-4X Hubsan Flat Micro Connector Adapter (4pcs)



ORI30263 IQ-4X Square Micro Connector Adapter (4pcs)

## Advantage IQ801 NiMH Charger

The Advantage IQ801 is an easy to use NiMH battery charger. Plug it into the wall, connect the battery to the battery connector, wait for the LED to go out and you are done. Also available as a set with a NiMH 7.2V Rocket Pack 2 1800mAh

- Compact charger for NiMH batteries
- For batteries with 4-8 cells
- 1A charge current
- Tamiya plug
- Also available as a set with a NiMH 7.2V Rocket Pack 2 1800mAh



### IQ801 Charger

Part#	ORI30197 EU/CH, ORI30198 UK, ORI30199 USA, ORI30200 JP
AC Input	110-120VAC / 220-240VAC
Charge:	1A, Delta Peak Cut-Off
NiMH:	4-8 cells
Dimensions:	50x73x29mm

### IQ801 Charger with Rocket Pack 2 Battery

Part#	ORI30201 EU/CH, ORI30202 UK, ORI30203 USA, ORI30204 JP
AC Input	110-120VAC / 220-240VAC
Charge:	1A, Delta Peak Cut-Off
NiMH:	4-8 Cells
Battery:	6 Cells, 7.2V, 1800mAh, Tamiya Plug




**RS**  
RONNFALK SPEC

## TITLES

- World Champion
- European Champion
- Multi-time Neo Race Winner
- Multi-time US National Champion

European Champion  
David Ronnfalk

## 2016 Off-Road CRF Engines

**NEW**

The CRF engines are in constant evolution, closely following the latest racing trends and making sure that drivers get the power and fuel mileage they need to be successful. Developing a great engine takes a lot of time and is done by building over well-established previous developments. This means that each year, our engines get improved performance and reliability. The 2016 CRF engines, feature refinements developed throughout the 2015 racing season. Italian driver Riccardo Berton captured the victory at the 2015 Kyosho Masters in Las Vegas. He took full advantage of his CRF engines, leaving the competition in the dust. Team Orion's nitro engine R&D department is managed by engine master and World Champion driver Adrien Bertin. Under his control, our World Championship winning team races and tests the engines around the globe, making sure that they offer peak performance in all conditions. Don't take chances with nitro engines, make sure you choose race winning, proven technology. Team Orion has won the World Championships and European Championships with the CRF off-road engines.

- World Champion Technology
- Brand new Racing Team V2 engine with new 60mm heat sink and black coated case for great mileage and lower running temp - at our most affordable price.
- 2015 Dirt Nitro Challenge Champion Truggy/Buggy
- 2015 Silverstate Truggy Champion
- 2015 Euro B 1/8 Buggy TQ+Champion
- 2015 Italian and Swedish National Champion
- 2015 Italian Job Champion
- 2015 Cnetic Champion
- 2015 Australischer NCS Champion
- 2015 Kyosho Masters Champion
- Racing and Factory Tuned versions


**CRF Buggy 21**  
**3 Ports Racing Team V2**

Part#	ORI80706
Speed	*****
Torque	*****
Run Time	*****
Ports	3
HP	2.7
RPM	36'000
Displacement	.21 3.5cc
Bore	16.2mm
Stroke	16.9mm
Front Bearing	7x19x6mm Swiss
Rear Bearing	14.2x25.3x6.3mm Steel
Crankshaft	Patented CRF SG-Type
Carburetor	2-Needle Aluminum
Weight	350g


**CRF Buggy 21**  
**3 Ports Factory Tuned**

Part#	ORI80701
Speed	*****
Torque	*****
Run Time	*****
Ports	3
HP	2.8
RPM	36'000
Displacement	.21 3.5cc
Bore	16.2mm
Stroke	16.9mm
Front Bearing	7x19x6mm Swiss
Rear Bearing	14.2x25.3x6.3mm Ceramic
Crankshaft	Patented CRF SG-Type
Carburetor	2-Needle Aluminum
Weight	350g


**CRF Buggy 21**  
**5+2 Ports Factory Tuned**

Part#	ORI80702
Speed	*****
Torque	*****
Run Time	*****
Ports	5+2
HP	2.8
RPM	37'000
Displacement	.21 3.5cc
Bore	16.2mm
Stroke	16.9mm
Front Bearing	7x19x6mm Swiss
Rear Bearing	14.2x25.3x6.3mm Ceramic
Crankshaft	Patented CRF SG-Type
Carburetor	2-Needle Aluminum
Weight	350g


**CRF Buggy 21 RS**  
**3 Ports Factory Tuned**

Part#	ORI80704
Speed	*****
Torque	*****
Run Time	*****
Ports	3
HP	2.8
RPM	38'000
Displacement	.21 3.5cc
Bore	16.2mm
Stroke	16.9mm
Front Bearing	7x19x6mm Swiss
Rear Bearing	14.2x25.3x6.3mm Ceramic
Crankshaft	Patented CRF SG-Type
Carburetor	2-Needle Aluminum
Weight	350g


**CRF Truggy 21**  
**7 Ports Factory Tuned**

Part#	ORI80703
Speed	*****
Torque	*****
Run Time	*****
Ports	7
HP	2.8
RPM	38'000
Displacement	.21 3.5cc
Bore	16.2mm
Stroke	16.9mm
Front Bearing	7x19x6mm Swiss
Rear Bearing	14.2x25.3x6.3mm Ceramic
Crankshaft	Patented CRF SG-Type
Carburetor	2-Needle Aluminum
Weight	350g

## 2016 On-Road Engines On-Road Competition Engines

**NEW**

Adrien Bertin is a on-road world champion in both the 1/10 and 1/8 scale classes. He knows that on-road engines are subject to extreme loads, therefore it is an important platform for testing and developing the CRF engines. During the 2015 racing season, the on-road CRF engines have also evolved while participating to the technological development of our engines. The 2016 on-road engines are the result of extensive testing.

- Completely new R21 V2 engine with longer stroke and new construction of piston sleeve (porting, highest quality material, new machining process) for great mileage at increased power output
- 2015 French Champion in 1/8 and 1/10

### CRF R21 V2 1/8 Scale 3.5cc On-Road

**NEW**

Part#	ORI80707
Speed	*****
Torque	*****
Run Time	*****

Ports	7
HP	3.3
RPM	44'000

Displacement	3.5
Bore	16.1
Stroke	17.1
Front Bearing	7x19x6mm Swiss
Rear Bearing	14.2x25.3x6.3mm Ceramic

Crankshaft	Balanced SG shaft
Carburetor	Aluminum 3 needles

Weight	330g
--------	------

### CRF R12 1/10 Scale 2.11cc engine

Part#	ORI80689
Speed	*****
Torque	*****
Run Time	*****

Ports	3
HP	1.9
RPM	42'000

Displacement	2.11
Bore	13.8
Stroke	14.1
Front Bearing	7x18x5
Rear Bearing	14x22x5

Crankshaft	Balanced SG shaft
Carburetor	Aluminum

Weight	290g
--------	------

## On-Road Tuned Pipes Recommended pipes for on-road engines

We offer the best on-road tuned pipes, specifically tested with our engines to make sure that you get the best performance. Available in 1/10 and 1/8 scale versions.



#### For 1/10 scale vehicles EFRA 2669

Set (Tuned Pipe, Manifold)	ORI88243
Tuned Pipe	ORI88123
Manifold	ORI88074



#### For 1/8 scale vehicles EFRA 2069

Set (Tuned Pipe, Manifold)	ORI88241
Tuned Pipe	ORI88121
Manifold	ORI88075

## Off-Road Tuned Pipes Recommended pipes for off-road engines

We offer the best tuned pipes, specifically tested with our engines to make sure that you get the best performance. Two off-road tuned pipes are available the 2114 which is quieter and favors top speed and the 2058 which favors power.

Don't take chances, use only Team Orion tuned pipes with your engines!



#### For 1/8 scale vehicles EFRA 2114 Max. speed Max. sound absorption

Set (Tuned Pipe, Manifold)	ORI88021
Tuned Pipe	ORI88125
Manifold	ORI88073



#### For 1/8 scale vehicles EFRA 2058 Max. acceleration

Set (Tuned Pipe, Manifold)	ORI88240
Tuned Pipe	ORI88122
Manifold	ORI88073



#### ◀ Marathon LiPo Flat RX Pack 2500 7.4V (Uni Plug)

Capacity	2500mAh
Voltage	7.4V (2S)
Configuration	Standard
Connector	Uni
Dimensions (mm)	85 x 30 x 17
Weight (g)	104
Part#	ORI12260



#### ◀ Marathon LiPo Hump RX Pack 2500 7.4V (Uni Plug)

Capacity	2500mAh
Voltage	7.4V (2S)
Configuration	Hump
Connector	Uni
Dimensions (mm)	58.5 x 32 x 32
Weight (g)	104
Part#	ORI12259

## Marathon RX LiPo 7.4V LiPo Receiver Packs

The new LiPo Marathon 2500 receiver batteries offer maximum power and runtime for your servos. Available in hump or standard configuration and fits the most popular cars. The new Team Orion Marathon LiPo receiver batteries are the best solution to power the radio systems on all RC cars. Thanks to the LiPo technology you get more power and longer run times than with NiMH batteries, empty receiver batteries and sluggish performance are a thing of the past. They come in regular size so they fit all the cars which can fit standard or hump shaped packs. A must for all serious nitro racers!

- High performance LiPo technology
- Regular size Standard and Hump configurations
- Uni plug
- High grade silicone wire
- JST-XH balancing connector



UNI Plug



#### ◀ Marathon Life Standard RX Pack 1100 30C 6.6V (UNI plug)

Capacity	1100mAh
Voltage	6.6V (2S)
Configuration	Standard
Connector	UNI
Dimensions (mm)	85 x 30 x 17
Weight (g)	70
Part#	ORI12255



#### ◀ Marathon Life Hump RX Pack 1100 30C 6.6V (BEC plug)

Capacity	1100mAh
Voltage	6.6V (2S)
Configuration	Hump
Connector	BEC
Dimensions (mm)	58.5 x 32 x 32
Weight (g)	70
Part#	ORI12258

## Marathon RX LiFe LiFe 6.6V Receiver Packs

The Marathon LiFe receiver packs are light, powerful and reliable. They can be used with regular 6V electronics unlike LiPo receiver packs which require 7.4V compatible electronics. A good alternative for those that want Lithium battery technology instead of NiMH and lighter weight receiver batteries.

- High performance LiFe technology
- Regular size Standard and Hump configurations
- Uni plug
- High grade silicone wire
- JST-XH balancing connector



UNI Plug



BEC Plug



## LiPo Glow Glow Plug Igniter with LiPo Battery

The new LiPo Glow plug igniter uses a LiPo battery as a power source, this offers several advantages over NiMH batteries.

- Optimal glow plug ignition thanks to the integrated power regulator (no voltage drop).
- Very low self-discharge, the igniter does not discharge by itself when it's not in use.
- Status LED indicates igniter and glow plug status.

LiPo-Glow w/charger:

ORI88940 EU-220V, ORI88941 UK-220V, ORI88942 USA/JP-110V

LiPo-Glow only: ORI88943 LiPo-Glow





### Marathon RX NiMH NiMH Receiver Packs

Team Orion now offers you the 1900XL receiver pack with a capacity of 1900mAh - a world's first! Marathon receiver packs are available in standard or hump configuration, with UNI or BEC connector. Thanks to their standard dimensions these packs with highest power and an unbelievable performance are compatible with most RC cars on the market.

- High capacity
- Stable discharge characteristics
- High reliability
- Low weight
- High cycle life
- Ready-to-use with pre-assembled connectors
- Proven Team Orion quality



UNI Plug



BEC Plug



Capacity	1700mAh
Voltage	5 Cells, 6V
Configuration	Standard
Wire	20AWG
Connector	BEC/UNI
Dimensions (mm)	87x18x32
Weight (g)	115
Part#	BEC: ORI12241 UNI: ORI12242



Capacity	1700mAh
Voltage	5 Cells, 6V
Configuration	Hump
Wire	20AWG
Connector	BEC/UNI
Dimensions (mm)	53x33x32
Weight (g)	115
Part#	BEC: ORI12243 UNI: ORI12244



Capacity	1900mAh
Voltage	5 Cells, 6V
Configuration	Hump
Wire	20AWG
Connector	BEC/UNI
Dimensions (mm)	53x33x35
Weight (g)	138
Part#	BEC: ORI12251 UNI: ORI12252



Capacity	1900mAh
Voltage	5 Cells, 6V
Configuration	Hump
Wire	20AWG
Connector	BEC/UNI
Dimensions (mm)	53x33x35
Weight (g)	138
Part#	BEC: ORI12253 UNI: ORI12254



### ProGlow Turbo Glow Plugs Turbo Glow Plugs Car Engines

We have developed a full range of glow plugs for our competition engines. To make sure that your engine is running properly, you must use the correct glow plug. By using Pro Glow glow plugs with your Team Orion engine you are making sure that your engine is running the way it was meant to. We run and develop our engines running these same glow plugs. There are three types specifically for off-road use and two types for on-road.



CRF88861  
CRF Power Turbo Plug BT3 (Buggy)



CRF88860  
CRF Power Turbo Plug BT4 (Buggy)



CRF88862  
CRF Power Turbo Plug BT5 (Buggy)



CRF88863  
CRF Power Turbo Plug RT6 (On Road)



CRF88864  
CRF Power Turbo Plug RT7 (On Road)

Hot

Off-Road

Cold

Hot

On-Road

Cold



## Lockdown & Quickfix Instant Glue for Tires, All-round Use or Polystyrene

Team Orion selection of Instant Glues fulfill all the hobbyists requirements. Whether you have to glue tires, plastic or wood, we have the glue for you.

- „Quickfix“ all-round formula
- „Lockdown“ formula for tires
- „Odorless“ formula, works with polystyrene airplane materials
- Activator to speed-up the bonding
- D-Fuse Debonder to reverse the bonding
- Thick and thin glues
- Easy to use bottles in different sizes
- Team Orion quality

### All-round Glue



Quickfix Thin  
1/2oz/14,2g  
ORI42110



Quickfix Thin  
1oz/28,4g  
ORI42111



Quickfix Medium  
1/2oz/14,2g  
ORI42112



Quickfix Medium  
1oz/28,4g  
ORI42113



Quickfix Thick  
1/2oz/14,2g  
ORI42114



Quickfix Thick  
1oz/28,4g  
ORI42115

### Ideal for RC Car Tires



Lockdown Thin  
1/2oz/14,2g  
ORI42100



Lockdown Thin  
1oz/28,4g  
ORI42101



Lockdown Thick  
1/2oz/14,2g  
ORI42102



Lockdown Thick  
1oz/28,4g  
ORI42103



Works with polystyrene

Odorless  
1/2oz/14,2g  
ORI42116

### Special Applications



Blast Activator  
2oz/56,8g  
ORI42120



D-Fuse Debonder  
2oz/28,4g  
ORI42121



## Victory Fluid High Quality Silicone Oil

**NEW**

The Team Orion Victory Fluid offers you a wide range of silicone oils for shocks and diffs. The 100% pure silicone blend ensures stability in a wide range of temperature and applications. Each batch is laboratory tested and calibrated to ensure the highest possible consistency and quality from batch to batch.

- 100% pure silicone oil for constant characteristics at any temperature
- Practical 60ml bottle with tight lock and precise dispenser
- Wide range for shock absorbers and differentials
- From #100 (thin) to #1'000'000 (thick)
- #100 to #600 recommended for shock absorbers of on-road and off-road vehicles
- #700 to #900 recommended for shock absorbers of on-road vehicles
- #1'000 to #20'000 recommended for off-road vehicles differentials
- #20'000 to #1'000'000 recommended for on-road vehicles differentials



#300'000  
ORI44428



#500'000  
ORI44429



#1'000'000  
ORI44430

Three new viscosities have been added to the range :  
300'000, 500'000 and 1'000'000.

Very high viscosity oils are used for example to lock-up differentials and simulate a solid shaft.

**NEW**



#100 | #10  
ORI44400



#150 | #15  
ORI44401



#200 | #20  
ORI44402



#250 | #25  
ORI44403



#300 | #30  
ORI44404



#350 | #35  
ORI44405



#400 | #40  
ORI44406



#450 | #45  
ORI44407



#500 | #50  
ORI44408



#550 | #55  
ORI44409



#600 | #60  
ORI44410



#700 | #70  
ORI44411



#800 | #80  
ORI44412



#900 | #90  
ORI44413



#1'000 | #100  
ORI44414



#2'000 | #200  
ORI44415



#3'000 | #300  
ORI44416



#4'000 | #400  
ORI44417



#5'000 | #500  
ORI44418



#6'000 | #600  
ORI44419



#7'000 | #700  
ORI44420



#8000 | #800  
ORI44421



#10'000 | #1'000  
ORI44422



#15'000 | #1'500  
ORI44423



#20'000 | #2'000  
ORI44424



#30'000 | #3'000  
ORI44425



#50'000 | #5'000  
ORI44426



#100'000 | #10'000  
ORI44427





## Team Orion Street wear The best outfit, not only at racing tracks

Team Orion T-Shirts, Sweatshirts and Hoodies are available in two attractive designs: Old School and Race. Printed in Germany on high-quality Fruit of the Loom® shirts. Available sizes from S to XXL.

### „Old-School“ Design



ORI43237 S  
ORI43238 M  
ORI43239 L  
ORI43240 XL  
ORI43241 XXL



ORI43242 S  
ORI43243 M  
ORI43244 L  
ORI43245 XL  
ORI43246 XXL



ORI43247 S  
ORI43248 M  
ORI43249 L  
ORI43250 XL  
ORI43251 XXL

### „Race“ Design



ORI43222 S  
ORI43223 M  
ORI43224 L  
ORI43225 XL  
ORI43226 XXL



ORI43227 S  
ORI43228 M  
ORI43229 L  
ORI43230 XL  
ORI43231 XXL



ORI43232 S  
ORI43233 M  
ORI43234 L  
ORI43235 XL  
ORI43236 XXL

**FLEXFIT®**

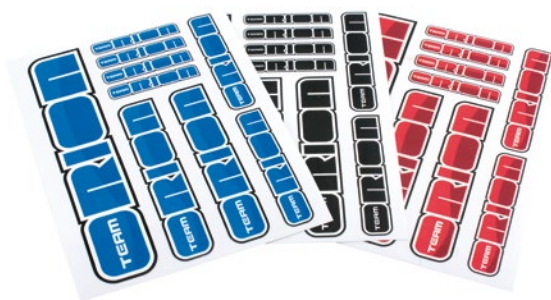


## Team Orion Cap Flexfit® High Quality Cap, printed in Germany

High quality baseball cap with printed Team Orion Logo. Available in two sizes.

ORI43252 Team Orion Flexfit Cap S-M  
ORI43253 Team Orion Flexfit Cap L-XL

\*Design can differ from photo



## Team Orion Decals

### Logo sticker sheets, red, blue, black

High quality Team Orion Logo stickers available in three different colors. The size of the logos is optimized so that it fits on all bodysheet types.

ORI43328 Team Orion Logo Sticker Sheet (3pcs, red-blue-black)



## Team Orion Banner

### Banner for racing tracks, indoor and outdoor use.

Team Orion banner printed on a synthetic material, ideal for indoor and outdoor use. It's equipped with 6 large eyelets so that it can be hung without getting damaged. Size 150x76cm.

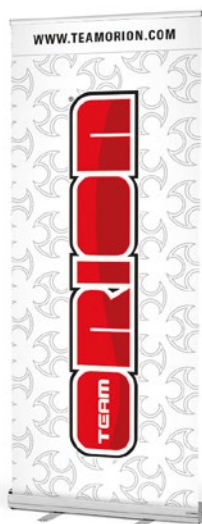
ORI43502 Team Orion Banner ,15 Collection (150x76cm)

## Team Orion Stand-Up Banner

### Stand-Up banner for race events, fairs and more!

The Team Orion stand up banner is delivered with a practical carrying bag. Easy to transport and setup. Size 80 x 200cm, single side print. Designed for indoor use.

ORI43503 Stand Up Banner ,15 Collection (80x200cm, incl. bag)

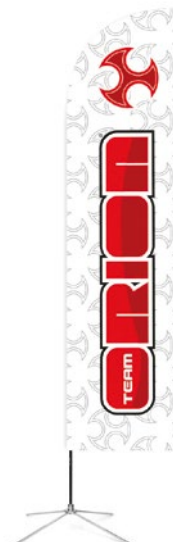


## Team Orion Flag

### Professional flag for race events, fairs and more!

Team Orion Flag, delivered with a practical carrying bag. easy to transport and setup. Printed on both sides of a textile fabric. Designed for indoor use.

ORI43504 Team Orion Flag ,15 Collection (50x200cm, incl. bag)





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WWW.TEAMORION.COM**



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[www.youtube.com/teamorioncom](http://www.youtube.com/teamorioncom)

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