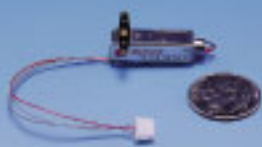
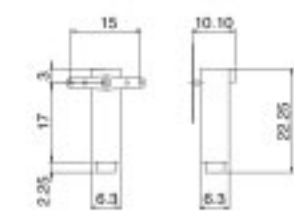

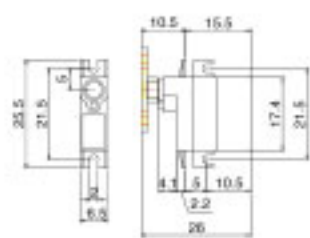

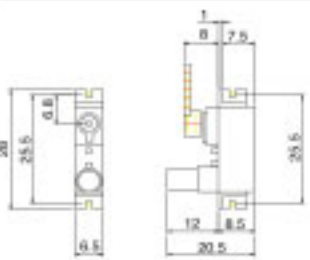

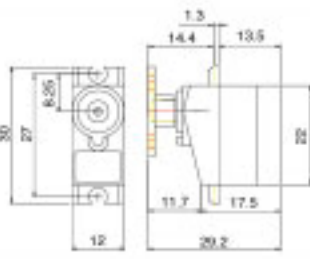

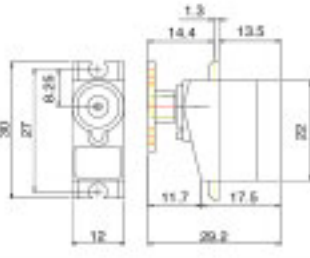

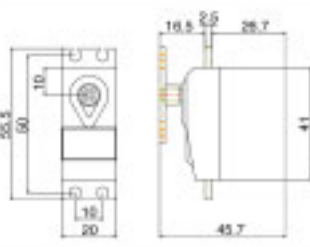

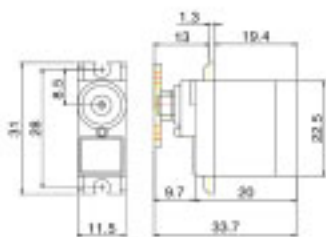

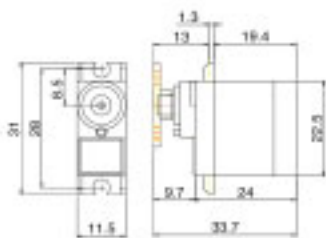

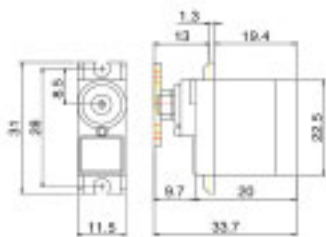

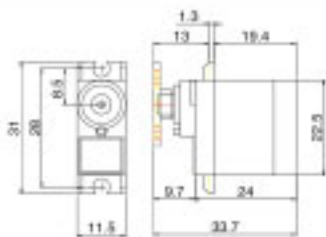

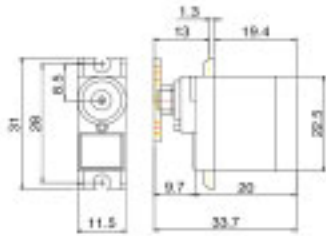

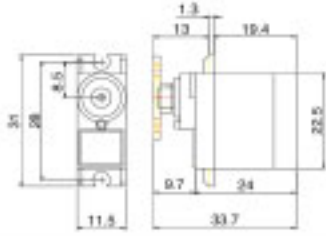


SERVO

	<p>NUKE Ultra Sub-micro Servo Weight : 2.85g Torque : 4.8V 400g/cm Speed : 4.8V 0.18sec/60° Size(mm) : 22.25 x 6.30 x 10.10</p>	
<p>NEW</p> 	<p>PINO Ultra Sub-micro Servo Metal Gear Weight : 6.45g Torque : 4.8V 300g/cm Speed : 4.8V 0.12sec/60° Size(mm) : 17.40 x 6.50 x 17.70</p>	
<p>NEW</p> 	<p>LEXI Sub-micro Servo Weight : 1.85g Torque : 4.8V 100g/cm Speed : 4.8V 0.15sec/60° Size (mm) : 25.5 x 6.5 x 20.5</p>	
	<p>MOCO Sub-micro Servo Weight : 9.85g Torque : 4.8V 1.0kg/cm Speed : 4.8V 0.10sec/60° Size(mm) : 22 x 12 x 20.5</p>	
	<p>MOCO BB Sub-micro Servo W/Ball Bearing Weight : 9.85g Torque : 4.8V 1.55kg/cm Speed : 4.8V 0.15sec/60° Size(mm) : 22 x 12 x 20.5</p>	
	<p>e-STD Servo Weight : 45.0g Torque : 4.8V 3.0kg/cm Speed : 4.8V 0.18sec/60° Size(mm) : 41 x 20 x 36</p>	



SERVO

	<p>ZETA-S Sub-micro Servo Weight : 11.0g Torque : 4.8V 1.1kg/cm Speed : 4.8V 0.10sec/60° Size(mm) : 22.4 x 11.5 x 20.0</p>	
	<p>ZETA-H Sub-micro Servo Weight : 13.0g Torque : 4.8V 2.2kg/cm Speed : 4.8V 0.11sec/60° Size(mm) : 22.4 x 11.5 x 24.0</p>	
	<p>ZETA-SM Sub-micro Servo Metal Gear Weight : 13.96g Torque : 4.8V 1.5kg/cm Speed : 4.8V 0.10sec/60° Size(mm) : 22.4 x 11.5 x 20.0</p>	
	<p>ZETA-HM Sub-micro Servo Metal Gear Weight : 15.96g Torque : 4.8V 2.5kg/cm Speed : 4.8V 0.11sec/60° Size(mm) : 22.4 x 11.5 x 24.0</p>	
	<p>ZATA-SMD Sub-micro Servo DIGITAL & Metal Gear Servo Weight : 14.15g Torque : 4.8V 1.5kg/cm Speed : 4.8V 0.10sec/60° Size(mm) : 22.4x11.5x20.0</p>	
	<p>ZATA-HMD Sub-micro Servo DIGITAL & Metal Gear Servo Weight : 16.15g Torque : 4.8V 2.5kg/cm Speed : 4.8V 0.11sec/60° Size(mm) : 22.4x11.5x24.0</p>	

FM RECEIVER (Available in 35,36,40,41,72,75 MHZ)

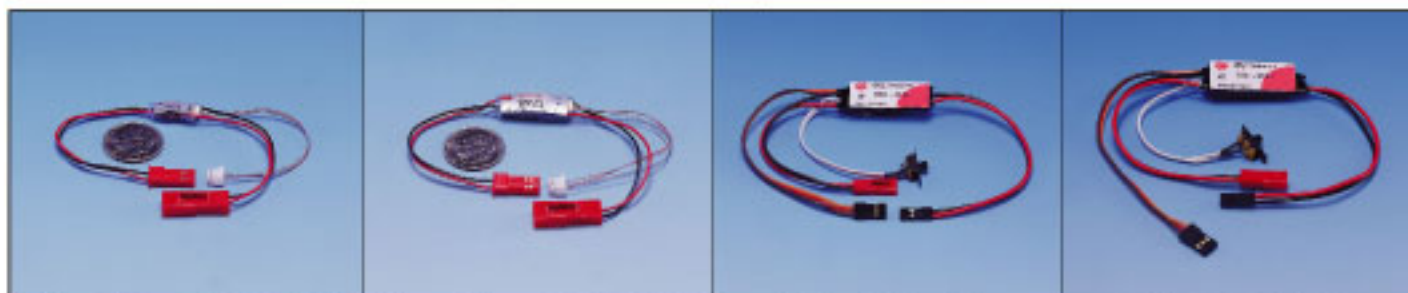
	<p>R1- 4CH Ultra-Micro RX Size(mm) : 28.20x7.90x8.40 Weight : 3.05g / 0.108oz Channel : 4 - CH Range : 100 M (Min.) Power DC : 3.5 ~ 7 V</p>		<p>R4- 6CH Micro RX Size(mm) : 32.35x15.65x9.20 Weight : 7.30g / 0.258oz Channel : 6 - CH Range : 500 M Power DC : 3.5 ~ 7 V</p>
	<p>R2- 4CH Micro RX Size(mm) : 29.35x11.35x10.75 Weight : 5.85g / 0.206oz Channel : 4 - CH Range : 500 M Power DC : 3.5 ~ 7 V</p>		<p>R5- 7CH Micro RX Size(mm) : 30.35x18.25x9.45 Weight : 7.80g / 0.275oz Channel : 7 - CH Range : 500 M Power DC : 3.5 ~ 7 V</p>
	<p>R3- 5CH Micro RX Size(mm) : 32.30x13.25x9.90 Weight : 6.55g / 0.230oz Channel : 5 - CH Range : 500 M Power DC : 3.5 ~ 7 V</p>		<p>R6- 8CH Micro RX Size(mm) : 29.60x21.05x10.50 Weight : 8.0g Channel : 8 - CH Range : 500 M Power DC : 3.5 ~ 7V</p>

PIEZO GYRO

	<p>NT-300 Micro Piezo Gyro Size(mm) : 19.5 x 11.25 x 20 Weight : 6 g (w/case) Gain : Single Gain Power DC : 3.6 ~ 6V</p>	<p>NEW</p> 	<p>A200-D Sub Micro Piezo Gyro Size(mm) : 13.00x11.00x8.00 Weight : 2.70g (w/o case) Gain : Single Gain Power DC : 3.6 ~ 6V</p>
	<p>NT-310 Micro Piezo Gyro W/Remote Gain Control Size(mm) : 19.5 x 11.25 x 20 Weight : 6 g (w/case) Gain : Single Gain Power DC : 3.6 ~ 6V</p>		
<p>NEW</p> 	<p>NT-400 Head-lock Piezo Gyro W/Remote Gain Control Size(mm) : 33.15x13.50x6.00 Weight : 4.60 g (w/o case) Gain : Single Gain Power DC : 3.6 ~ 6V</p>	<p>NEW</p>	<p>A500-G Head-lock Piezo Gyro W/Remote Gain Control Size(mm) : 30.20x10x27.50 Weight : 6.80g (w/case) Gain : Single Gain Power DC : 3.6 ~ 6V</p>

SPEED CONTROLLER (Aircraft)

For Li-Po , Li-Ion Battery & Brushed Motor



Ultra-Micro ESC-S5A1

Ultra-Micro ESC-S5A2

Li-Po ESC-10A

Li-Po ESC-20A

Specification

ITEM / SPEC	ESC-S5A1	ESC-S5A2	Li-Po ESC-10A	Li-Po ESC-20A
Self-current Consumption	2mA	2mA	3mA	3mA
Operating Voltage	2.7 - 4V	7.2 - 12V	7.2 - 12V	7.2 - 12V
Max Drain Current	7A	8A	32A	50A
Continuous Drain Current	5A	5A	15A	20A
BEC OUT (5.0V)	0.5A	7.2V=1A 11.1V=0.8A	7.2V=2A 11.1V=1A	7.2V=2A 11.1V=1A
Resistance (Ω)	0.03	0.02	0.004	0.002
Control	2KHz	2.8KHz	2.5KHz	2.5KHz
Auto Cut Off	2.6V	72%VCC	72%VCC	72%VCC
Size (mm)	12x6x3	18x8x6	34x17x8	34x17x9.5

For Ni-Cd , Ni-MH Battery & Brushed Motor



ESC-10A

ESC-10AC

ESC-15AC

Specification

ITEM / SPEC	ESC-10A	ESC-10AC	ESC-15AC
Self-current Consumption	3mA	3mA	3mA
Operating Voltage	5 - 12V	5 - 12V	5 - 12V
Max Drain Current	15A	25A	30A
Continuous Drain Current	10A	12A	15A
BEC OUT (5.0V)	1A	1A	1A
Resistance (Ω)	0.008	0.008	0.003
Control	2.8KHz	2.8KHz	2.8KHz
Auto Cut Off	4.0V	4.0V	4.0V
Size (mm)	7x19x5	22x14x9	22x14x9



ESC-20AH (400 EP Helicopters)

For Li-Po, Li-Ion Battery & Brushed Motor

Self-current Consumption	3mA	BEC OUT(5.0V)	2A
Operating Voltage	7.4 - 11.1V	Resistance(Ω)	0.002
Max Drain Current	45A	Control	2.8KHz
Continuous Drain Current	20A	Size(mm)	34x17x8

SPEED CONTROLLER (Aircraft)

For Li-Po , Li-Ion Battery & Brushless Motor



Li-Po BLESC-10A



Li-Po BLESC-15A



Li-Po BLESC-15AX



Li-Po BLESC-20AX



Li-Po BLESC-25AX



Li-Po BLESC-30AX

Specification

ITEM / SPEC	BLESC 10A	BLESC 15A	BLESC 15AX	BLESC 20AX	BLESC 25AX	BLESC 30AX
Self-current Consumption	10mA	10mA	15mA	15mA	15mA	15mA
Operating Voltage	7.2 – 11V	7.2 – 12V	7.2 – 12V	7.2 – 12V	7.2 – 12V	7.2 – 12V
Max Drain Current	14A	20A	30A	40A	80A	100A
Continuous Drain Current	10A	15A	15A	20A	25A	30A
BEC OUT (5.0V)	7.2:2A 11V:1.5A	7.2:2A 11V:1.5A	2A	2A	2A	2A
Resistance (Ω)	0.015	0.015	0.01	0.008	0.005	0.002
Control	MAX 5KHz	MAX 5KHz	MAX 5KHz	MAX 5KHz	MAX 5KHz	MAX 5KHz
Auto Cut Off	72%VCC	72%VCC	72%VCC	72%VCC	72%VCC	72%VCC
Size (mm)	27x14x8	45x22x10	52x22x10	52x22x10	52x22x10	52x22x10



Li-Po BLESC-20AXH (400 EP Helicopters) For Li-Po, Li-Ion Battery & Brushless Motor

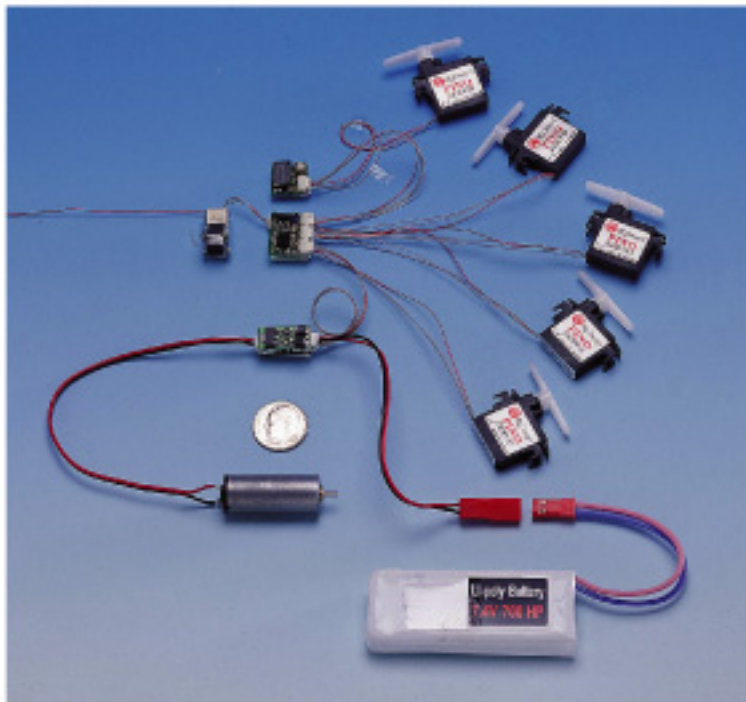
Self-current Consumption	15mA	BEC OUT(5.0V)	2A
Operating Voltage	7.2 – 12V	Resistance(Ω)	0.008
Max Drain Current	40A	Control	5KHz
Continuous Drain Current	20A	Size(mm)	52x22x10

BRUSHLESS MOTOR



Motor/v	3600/v	Motor Weight	75 g
No Load Current	under 0.8	Motor Diameter	28 mm
Maximum Current	22A	Motor Length	41 mm
Efficiency	15T upper 85%	Motor Shaft Diameter	2.3mm
Voltage Range	under 16/v	Bearings	2
Pinion Gear	10 T		

"AIRTRIX" AIRBORNE SYSTEM



"AIRTRIX" Airborne System

★ 1 x 6-CH FM RX (or 4-CH FM RX)

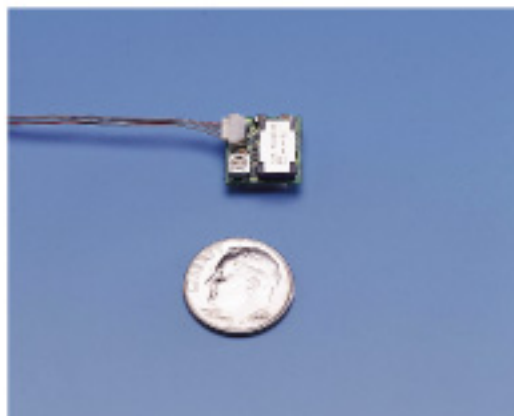
★ 1 x CPU

★ 1 x ESC- 5A2 (or ESC- 5A1)

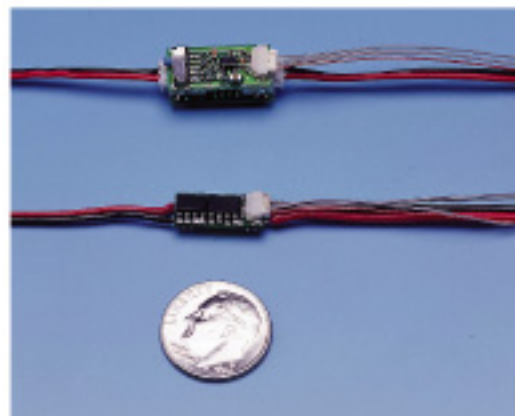
★ 1 x FM Micro X'tal

4.25g ~ 5.10g

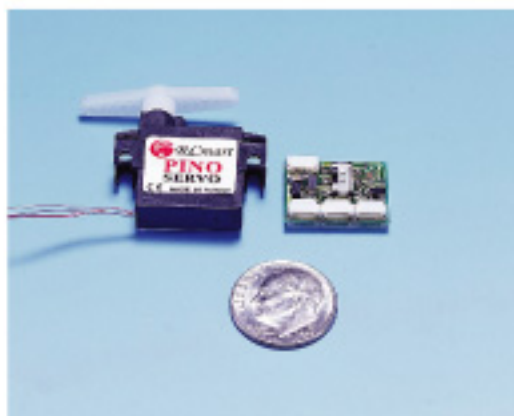
★ 2 x PINO Servo



"AIRTRIX" A100-F Super Micro Gyro (1.88g)



"AIRTRIX" ESC-5A2
Li-po (2~3 cells) ESC (5A)



PINO Servo (6.45g) "AIRTRIX" FM 6-CH RX



Micro Airplane



NUKE AIRBORNE SYSTEM

2 x Servo

- Size : 22.25x6.30x10.10mm
- Torque : 300g/cm@3.0v
400g/cm@4.8v
- Input voltage: 3.0v~5.0v
- Weight : 2.85g
- Speed : 0.20 sec/60°@3.0v
0.18 sec/60°@4.8v

1 x Receiver (FM)

- Size : 28.20x7.90x8.40mm
- Channel : 4CH
- Input voltage : 3.5v~7.0v
- Connector : JST
- Weight : 3.05g
- Range : 100(Min)
- Crystal : Micro(UM1)

1 x Speed Controller S5A1

- Size: 12.50x6.50x3.60mm
- Continuous Current : 5A
- Input voltage : 2.7v~4.0v
- Weight : 1.90g
- Max Surge Current : 7A
- Auto cutoff : 2.6v

or

1 x Speed Controller S5A2

- Size : 18.75x8.00x6.25mm
- Continuous Current : 5A
- Input voltage : 7.2v ~ 12v
- Weight : 2.78g
- Max Surge Current : 8A
- Auto Cutoff : 72% of the fully charged Li-po, Li-ion battery



V1 ELECTRONIC COMPONENTS PACK FOR 400 EP HELICOPTERS

4 x MOCO STD Sub-micro Servo

- Torque : 4.8v 1.0kg/cm
- Speed : 4.8v 0.10 sec./60°
- Size : 22x12x20.5
- Weight : 9.85g

1 x R4-6CH Micro Receiver

- FM Single conversion (35MHz, 40MHz, 72MHz)
- Range: 500m
- Power: 3.5-7.0v
- Size: 32.35x15.65x9.20mm
- Weight: 7.30g

1 x NT-300 Micro Piezo Gyro

- Gain: Single Gain Control
- Power: 3.6-6.0v
- Size : 19.50x11.15x20.00mm
- Weight: 6g (w/CASE)

1 x Electronic Speed Controller

- Operating Voltage : 7.4-11.1v
- Max Drain Current : 45A
- Continuous Drain Current : 20A
- BEC Out (5.0V) : 2A
- LED turning to Red : 7.9v
- Size : 34.50x17.35x8.00mm
- Weight : 12 g

1 x Li-Ion Battery Pack

- Volt : 11.1V
- Capacity : 1600mAh
- Size : 5.20x2.70x3.40cm
- Weight : 120g



V2 ELECTRONIC COMPONENTS PACK FOR 400 EP HELICOPTERS

4 x MOCO BB Sub-micro Servo

- Torque : 4.8v 1.55kg/cm
- Speed : 4.8v 0.15 sec./60°
- Size : 22x12x20.5
- Weight : 9.85g

1 x R4-6CH Micro Receiver

- FM Single conversion (35MHz, 40MHz, 72MHz)
- Range: 500m
- Power: 3.5 ~ 7.0v
- Size : 32.35x15.65x9.20mm
- Weight : 7.30g

1 x NT-310 Micro Piezo Gyro

- Gain : Single Gain W/Remote Control
- Power: 3.6 ~ 6.0v
- Size : 19.50x11.15x20.00mm
- Weight : 6g (w/CASE)

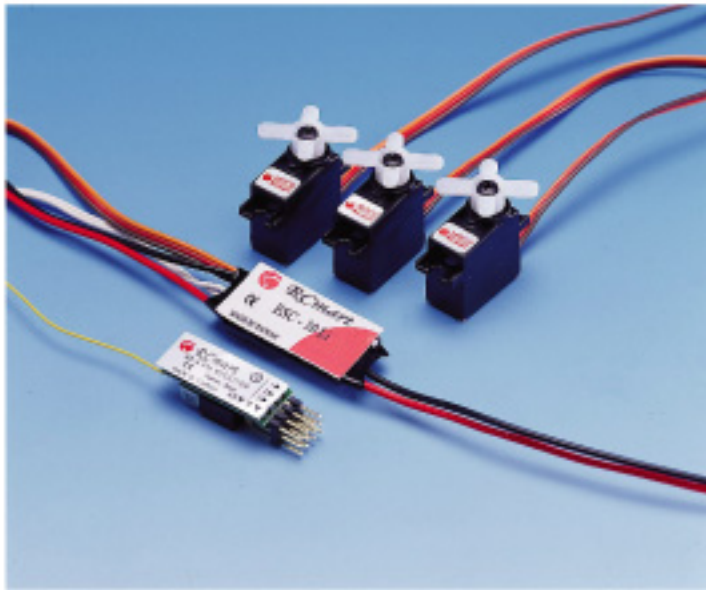
1 x Electronic Speed Controller for Brushless Motor

- Operating Voltage : 7.2 ~ 12 v
- Max Drain Current : 40A
- Continuous Drain Current : 20A
- BEC Out (5.0V) : 2A
- Size : 52x22x10mm
- Weight : 27.50 g

1 x Li-Ion Battery Pack

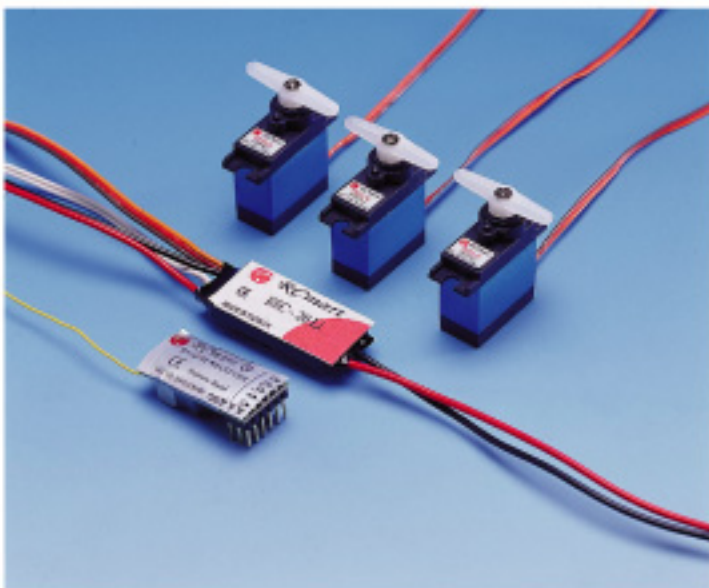
- Volt : 11.1V
- Capacity : 1700~2500mAh
- Size : 9x3.5x2cm (2000mAh)
- Weight : 132g (2000mAh)

AIRBORNE PACKS



"MOCO" AIRBORNE PACK

- 3 x MOCO Sub-micro Servo
 - 1 x FM 4-CH RX (R2-4CH)
 - 1 x Li-Po ESC-10A
- (For Li-po, Li-ion Battery & Brushed Motor)

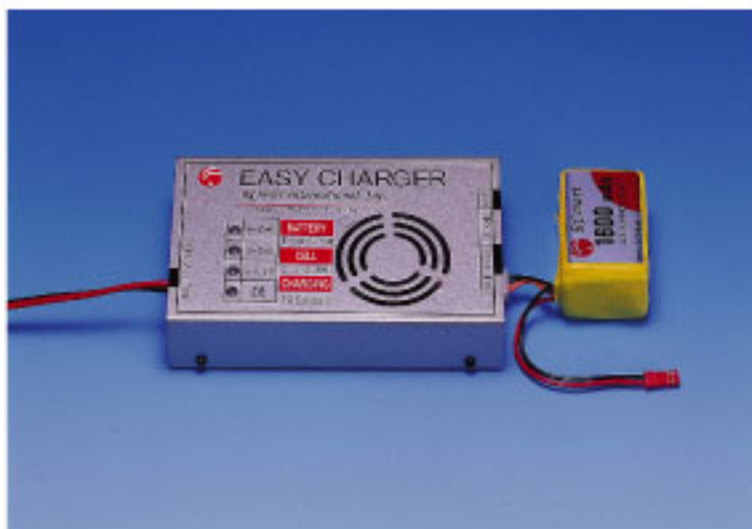


"ZETA" AIRBORNE PACK

- 3 x ZETA Sub-micro Servo
 - 1 x FM 6-CH RX (R4-6CH)
 - 1 x Li-Po ESC-20A
- (For Li-po, Li-ion Battery & Brushed Motor)



LI-PO & LI-ION QUICK CHARGER • LI-POLY BATTERY PACK



Battery pack : 2-cell, 3-cell, or 4-cell
 Charging current : 1A constant
 Charging battery capacity : 700 mAH ~ 3000 mAH

EASY CHARGER { Size : 129 mm x 85 mm x 30 mm
 Weight : 290g
 Battery : Li-po and Li-ion only



Li-Poly 10C Discharge Battery Pack

Capacity (mAh)	Voltage (V)	No. of Cells	Series Parallel
450	7.4	2	2 S1P
450	11.1	3	3 S1P
630	7.4	2	2 S1P
630	11.1	3	3 S1P
1000	7.4	2	2 S1P
1000	11.1	3	3 S1P
1300	7.4	2	2 S1P
1300	11.1	3	3 S1P
1800	7.4	2	2 S1P
1800	11.1	3	3 S1P
2000	7.4	2	2 S1P
2000	11.1	3	3 S1P
2200	7.4	2	2 S1P
2200	11.1	3	3 S1P

- The flight battery can explode. DO NOT overcharge the flight battery. DO NOT charge the flight battery if it's hot and NEVER charge the flight battery while unattended. We suggest charging the flight battery outdoors and checking the temperature of the flight battery every five minutes to ensure that it does not overcharge and/or overheat.
- In case excessive heat during the charging process, disconnect the flight battery from the charger immediately and place the flight battery in a fireproof container or in a fireproof area.
- Use the charging plug only. DO NOT use the power supply plug for charging/discharging.
- DO NOT over discharge the flight battery. If any power drop is noticed, check the condition of the flight battery.
- DO NOT solder directly to the flight battery. If you change the plug, be careful not to get flight battery hot.

No.4, Alley 2, Lane 143, Shin Tai Wu Rd., Sec.1, Shijr City, Taipei Hsien 22175, Taiwan, R.O.C.

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PROPELLERS • GEAR-DOWN UNITS • DUCTED-FAN UNITS
PROPELLERS


ITEM	ITEM	ITEM
NP-7074	SP-8060	DP-7040
NP-8060	SP-9070	DP-8050
NP-9070	SP-1080	DP-9050

GEAR-DOWN UNITS


HPS-120A POWER SYSTEM
 Specification Ratio
 HPS-120A-1250 4.17 : 1

DUCTED-FAN UNITS


Model	Rated voltage	No-load		Stall			Dimensions		Weight	
		Current (mA)	Speed (rpm)	Torque g-cm	oz	Current (A)	Shaft (mm/in)	Appearance (mm/in)	g	oz
HP-120C	DC 7.2V	240	30000	170	6	6.8	Ø 1.5x4.6 (0.06x0.18)	Ø 12.0x30 (0.47x1.8)	13	0.46

High Power Ducted Fan

DF-55

Specifications
 Duct outer/inner Diameter : 58.4 \ 56 mm
 Rotor : 7 blades Thrust : 330g@32000 rpm
 Motor : 300 or similar motors


DF-70

Specifications
 Duct outer/inner Diameter : 72 \ 69 mm
 Rotor : 8 blades Thrust : 655g@31000 rpm
 Motor : 400 (480) or similar motors


DF-90

Specifications
 Duct outer/inner Diameter : 93.4 \ 90 mm
 Rotor : 8 blades Thrust : 1360g@24000rpm
 Motor : 500 or similar motors

Optional Parts / Model	DF-55	DF-70	DF-90
Adapter (Shaft Diameter)	2.0mmØ 2.3mmØ	2.30mmØ 3.17mmØ	5.0mmØ
Motor	3700 KV	3000 KV	1500-2000 KV
Battery	11.1V (3-Cell Li-Po Battery) 1600-1800mAH	11.1V - 14.8V (3-4 Cell Li-Po Battery) 2000-2500mAH	18.5V-22.2V (5-6 Cell Li-Po Battery) 3000-4000mAH
ESC	30Amp and up	30Amp and up	40Amp and up

No.4, Alley 2, Lane 143, Shin Tai Wu Rd., Sec.1, Shijr City, Taipei Hsien 22175, Taiwan, R.O.C.

E-mail : rc.mart@msa.hinet.net [Http://www.rcmart.com.tw](http://www.rcmart.com.tw)

TEL : + 886-2-2642-5776 FAX : + 886-2-2642-5786

ZAP 400 Electric Powered Micro Helicopter



Specification (V2)

- Fuselage Overall Length : 630mm
- Main Rotor Diameter : 635mm
- Tail Rotor Diameter : 130mm
- Motor : 400 size
- Rotor Head Ass'y : Collective Pitch Control (Bell-Hiller System)
- Flying Weight : About 530g (It varies according to size and weight of battery pack and RC gadgets)
- Flying Time : 10-13min. with 11.1V/2000mAH Li-Po Battery Pack

Features (V2)

- Main Frame : Nylon with 30% Fiber Glass (Black)
- Tail Boom : Aluminum Pipe
- Landing Gear : Nylon with 30% Fiber Glass (White) with Aluminum Pipe
- Drive Gear with Autorotation (POMP)
- Belt Tail Drive
- Stabilizer : White
- Tail Rotor Blade : White (55 x 20 mm)
- Ball Bearing : 17 pieces
- Main Rotor Blade : Plastic (290 x 32 mm)
- Canopy : ABS (White)
- Optional parts for CCPM type are available.



Airwolf (Bell 222) (SCALE BODY)



MD500E (SCALE BODY)



MD500R (SCALE BODY)

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