



# THETA

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SINCE 2018

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HELI

ACRO












BUGGY

DRIFT

## SERVO SELECTION GUIDE



# Helicopter SERVO application table

Main Blade	Swashplate	Main Blade	Tail
325 ↓		325 ↓	
380 ↓		380 ↓	 
430 ↓	 	430 ↓	
520 ↓		520 ↓	
550 ↓		550 ↓	
600 ↓		600 ↓	
700 ↓		700 ↓	
800		800	

## Tips for using THETA servo:

The servo will wear out during use, and wear near the midpoint is more serious. The THETA NFC SERVO has a midpoint adjustment function. After a period of use, changing a gear position can greatly increase the life of the servo.

THETA servo is high-voltage servo. A higher BEC voltage can increase the torque and speed.

The default current of THETA NFC servo has quite ideal performance. If it still cannot meet your requirements, you can increase the maximum current appropriately (provided that the BEC power supply is good).

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# RAZOR C1/T1

BRUSHLESS NFC SERVO HV

## NFC FULL METAL BRUSHLESS DIGITAL STANDARD SERVO

SANWA SSR compatible  
STEEL GEAR SUPER DUTY  
ULTRA QUIET ENERGY SAVING

Neutral Pulse Width: 760us/1520us adjustable (Narrow/Wide band adjustable)

Frequency Range: 50~400Hz

Limit angle: 180±10°(500-2500μsec)

Operating travel: 90°(1000-2000μsec)

Rotating direction :adjustable

Neutral position :760us/1520μsec

Maximum travel: ≈150°(800-2200μsec)


Pulse width range :adjustable


Connector wire length: 320 ± 5 mm


Connector wire gauge: #22PVC


Dead band width: 1-4μsec


C1 SPEED	C1 TORQUE	T1 SPEED	T1 TORQUE	SIZE	WEIGHT
5.0V-0.108s/60°@2.6A	5.0V-23Kgf.cm @2.6A	5.0V-0.082s/60°@2.6A	5.0V-17Kgf.cm @2.6A	40X20X38mm	73g
6.0V-0.084s/60°@2.6A	6.0V-27Kgf.cm @2.6A	6.0V-0.054s/60°@2.6A	6.0V-18Kgf.cm @2.6A		
7.4V-0.071s/60°@2.6A	7.4V-34Kgf.cm @2.6A	7.4V-0.047s/60°@2.6A	7.4V-19Kgf.cm @2.6A		
8.4V-0.060s/60°@2.6A	8.4V-36Kgf.cm @2.6A	8.4V-0.042s/60°@2.6A	8.4V-20Kgf.cm @2.6A		
5.0V-0.102s/60°@5A	5.0V-32Kgf.cm @5A	5.0V-0.058s/60°@5A	5.0V-20Kgf.cm @5A		
6.0V-0.079s/60°@5A	6.0V-37Kgf.cm @5A	6.0V-0.051s/60°@5A	6.0V-24Kgf.cm @5A		
7.4V-0.067s/60°@5A	7.4V-44Kgf.cm @5A	7.4V-0.044s/60°@5A	7.4V-27Kgf.cm @5A		
8.4V-0.056s/60°@5A	8.4V-48Kgf.cm @5A	8.4V-0.039s/60°@5A	8.4V-30Kgf.cm @5A		

 M3X12X4Pcs

 M3X5X4Pcs

 28X16mmX1Pcs

 7X9X6X4Pcs

 M3X6X1Pcs

 45X10mmX1Pcs

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# RAZOR DH1/TH1


BRUSHLESS NFC SERVO HV

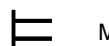
SANWA SSR compatible  
STEEL GEAR SUPER DUTY  
ULTRA QUIET ENERGY SAVING


## NFC FULL METAL BRUSHLESS LOW PROFILE SERVO


Neutral Pulse Width: 760us/1520us adjustable (Narrow/Wide band adjustable)  
Frequency Range: 50~400Hz


Limit angle: 180±10° (500-2500μsec)		Neutral position: 760us/1520μsec		Connector wire length: 300 ± 5 mm	
Operating travel: 90° (1000-2000μsec)		Maximum travel: ≈150° (800-2200μsec)		Connector wire gauge: #22PVC	
Rotating direction: adjustable		Pulse width range: adjustable		Dead band width: 2-4μsec	
DH1 SPEED	DH1 TORQUE	TH1 SPEED	TH1 TORQUE	SIZE	WEIGHT
5.0V-0.108s/60° @3A	5.0V-24Kgf.cm 3A	5.0V-0.087s/60° @3A	5.0V-19Kgf.cm 3A	41X20.5X29.5mm	60g
6.0V-0.09s/60° @3A	6.0V-26Kgf.cm 3A	6.0V-0.072s/60° @3A	6.0V-21Kgf.cm 3A		
7.4V-0.08s/60° @3A	7.4V-28Kgf.cm 3A	7.4V-0.064s/60° @3A	7.4V-23Kgf.cm 3A		
8.4V-0.07s/60° @3A	8.4V-30Kgf.cm 3A	8.4V-0.056s/60° @3A	8.4V-24Kgf.cm 3A		
5.0V-0.092s/60° @5A	5.0V-30Kgf.cm @5A	5.0V-0.079s/60° @5A	5.0V-22Kgf.cm 5A		
6.0V-0.081s/60° @5A	6.0V-34Kgf.cm @5A	6.0V-0.065s/60° @5A	6.0V-26Kgf.cm 5A		
7.4V-0.072s/60° @5A	7.4V-37Kgf.cm @5A	7.4V-0.058s/60° @5A	7.4V-28Kgf.cm 5A		
8.4V-0.063s/60° @5A	8.4V-40Kgf.cm @5A	8.4V-0.051s/60° @5A	8.4V-30Kgf.cm 5A		


 M3X12X4Pcs

 M3X5X4Pcs

 28X16mmX1Pcs

 7X9X6X4Pcs

 M3X6X1Pcs

 45X10mmX1Pcs

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NFC HV  
Low Profile

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# RAZOR D1/DT1

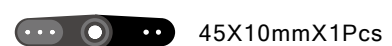
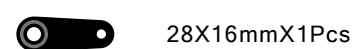
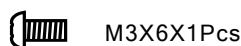
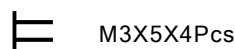
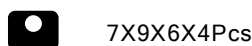
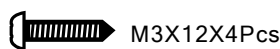
BRUSHLESS NFC SERVO HV

SANWA SSR compatible  
STEEL GEAR SUPER DUTY  
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## NFC FULL METAL BRUSHLESS LOW PROFILE SERVO

Neutral Pulse Width: 760us/1520us adjustable (Narrow/Wide band adjustable)  
Frequency Range: 50~400Hz

Limit angle: 180±10°(500-2500μsec)		Neutral position : 760us/1520μsec		Connector wire length: 200 ± 5 mm	
Operating travel: 90°(1000-2000μsec)		Maximum travel: ≈150°(800-2200μsec)		Connector wire gauge: #22PVC	
Rotating direction : adjustable		Pulse width range : adjustable		Dead band width: 1-4μsec	
D1 SPEED	D1 TORQUE	DT1 SPEED	DT1 TORQUE	SIZE	WEIGHT
5.0V-0.108s/60° @3A	5.0V-12Kgf.cm 3A	5.0V-0.087s/60° @3A	5.0V-10Kgf.cm 3A	41X20.5X27mm	53g
6.0V-0.09s/60° @3A	6.0V-13.5Kgf.cm 3A	6.0V-0.072s/60° @3A	6.0V-11Kgf.cm 3A		
7.4V-0.08s/60° @3A	7.4V-15Kgf.cm 3A	7.4V-0.064s/60° @3A	7.4V-12Kgf.cm 3A		
8.4V-0.07s/60° @3A	8.4V-16Kgf.cm 3A	8.4V-0.056s/60° @3A	8.4V-13Kgf.cm 3A		
5.0V-0.092s/60° @5A	5.0V-14Kgf.cm @5A	5.0V-0.079s/60° @5A	5.0V-12Kgf.cm 5A		
6.0V-0.081s/60° @5A	6.0V-15.5Kgf.cm @5A	6.0V-0.065s/60° @5A	6.0V-13.5Kgf.cm 5A		
7.4V-0.072s/60° @5A	7.4V-18Kgf.cm @5A	7.4V-0.058s/60° @5A	7.4V-15Kgf.cm 5A		
8.4V-0.063s/60° @5A	8.4V-20Kgf.cm @5A	8.4V-0.051s/60° @5A	8.4V-16Kgf.cm 5A		



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# SABRE -C1/T1

SANWA SSR compatible  
STEEL GEAR SUPER DUTY  
ULTRA QUIET ENERGY SAVING

## METAL BRUSHLESS NFC HV MINI SERVO

Neutral Pulse Width: 760us/1520us adjustable (Narrow/Wide band adjustable)  
Frequency Range: 50~400Hz

Limit angle: 180±10°(500-2500μsec)

Connector wire length: 300 ± 5 mm

Operating travel: 90°(1000-2000μsec)

Connector wire gauge: #26PVC

Rotating direction: adjustable

Dead band width: 2-4μsec

VOLTAGE	CURRENT	C1 SPEED	C1 TORQUE	T1 SPEED	T1 TORQUE	SIZE	WEIGHT
5.0V	2.0A	0.10s/60°	10Kgf.cm	0.08s/60°	6Kgf.cm	35X15X31mm	46g
6.0V	2.0A	0.09s/60°	12Kgf.cm	0.07s/60°	7Kgf.cm		
7.4V	2.1A	0.08s/60°	14Kgf.cm	0.06s/60°	8Kgf.cm		
8.4V	2.3A	0.07s/60°	15Kgf.cm	0.05s/60°	9Kgf.cm		



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# THM988/982

## METAL BRUSHLESS HV MINI SERVO

ULTRA QUIET  
SUPER DUTY  
ENERGY SAVING

Neutral Pulse Width: 1520us/760us (Wide band/Narrow) Frequency Range: 50~400Hz

Limit angle:  $180 \pm 10^\circ$  (500-2500 $\mu$ sec)

Operating travel:  $90^\circ$  (1000-2000 $\mu$ sec)

Rotating direction: adjustable

Connector wire length:  $300 \pm 5$  mm

Connector wire gauge: #26PVC

Dead band width: 2-4 $\mu$ sec

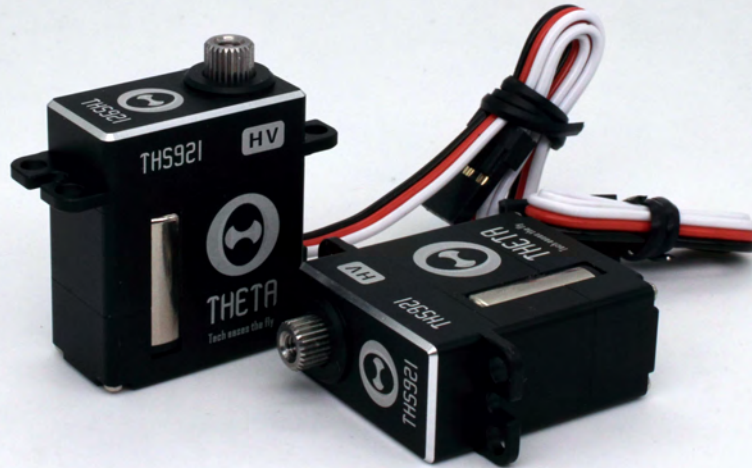
VOLTAGE	CURRENT	988 SPEED	988 TORQUE	982 SPEED	982 TORQUE	SIZE	WEIGHT
5.0V	2.0A	0.10s/60°	10Kgf.cm	0.08s/60°	6Kgf.cm	35X15X31mm	46g
6.0V	2.0A	0.09s/60°	12Kgf.cm	0.07s/60°	7Kgf.cm		
7.4V	2.1A	0.08s/60°	14Kgf.cm	0.06s/60°	8Kgf.cm		
8.4V	2.3A	0.07s/60°	15Kgf.cm	0.05s/60°	9Kgf.cm		



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CORELESS  
HV MICRO



# THS921

SANWA SSR compatible  
STEEL GEAR SUPER DUTY  
ULTRA QUIET ENERGY SAVING

## METAL CORELESS HV MICRO SERVO

Neutral Pulse Width: 1520us (Wide band adjustable) Frequency Range: 50~400Hz

Limit angle:  $140 \pm 10^\circ$  (750-2250 $\mu$ sec)

Operating travel:  $90^\circ$  (1000-2000 $\mu$ sec)

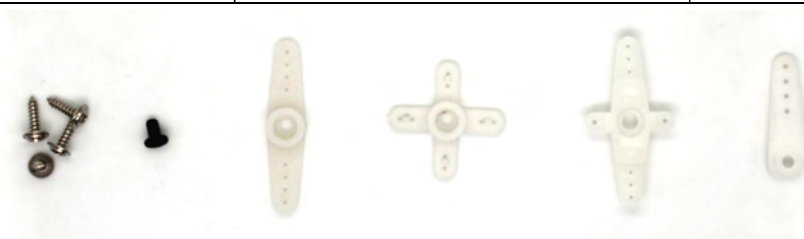
Rotating direction: CCW

Connector wire length:  $190 \pm 5$  mm

Connector wire gauge: #26PVC

Dead band width: 1 $\mu$ sec

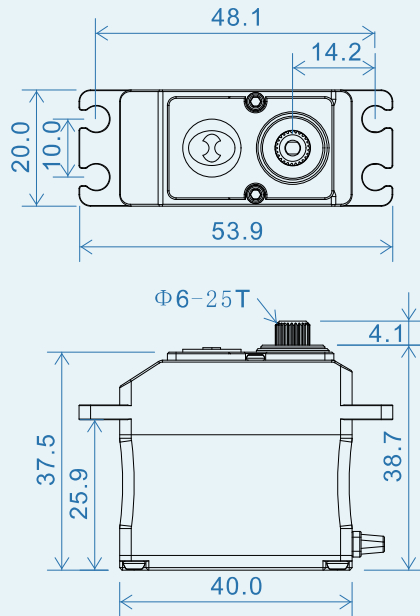
SPEED	TORQUE	SIZE	WEIGHT
0.11sec/60° @ 6.0V 0.09sec/60° @ 7.4V 0.08sec/60° @ 8.4V	5.8 kg-cm (81 oz-in) @ 6.0V 6.8 kg-cm (94 oz-in) @ 7.4V 7.5 kg-cm (104 oz-in) @ 8.4V	23X12X27.4mm	21g





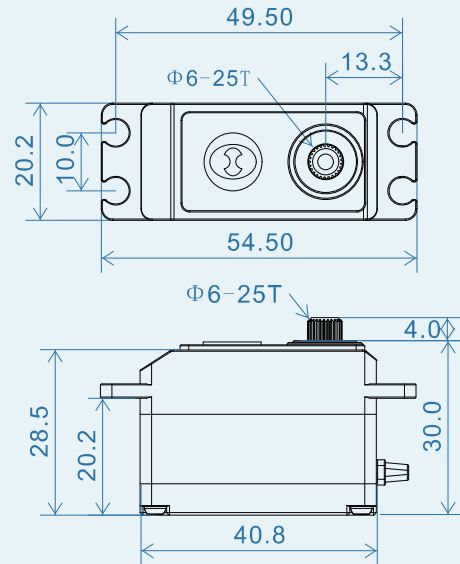
# RAZOR-C1/T1

73g



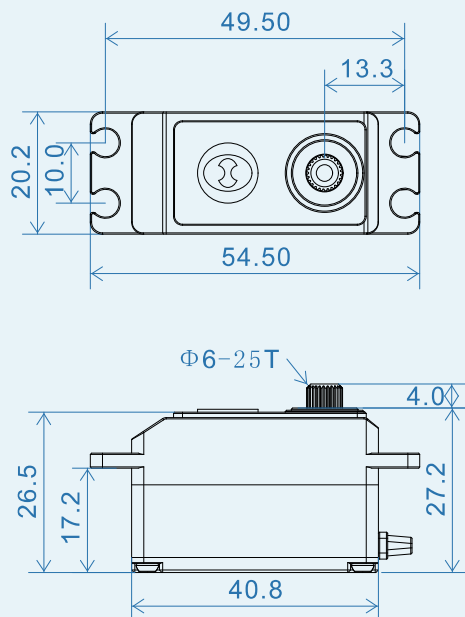
# RAZOR-DH1/TH1

60g



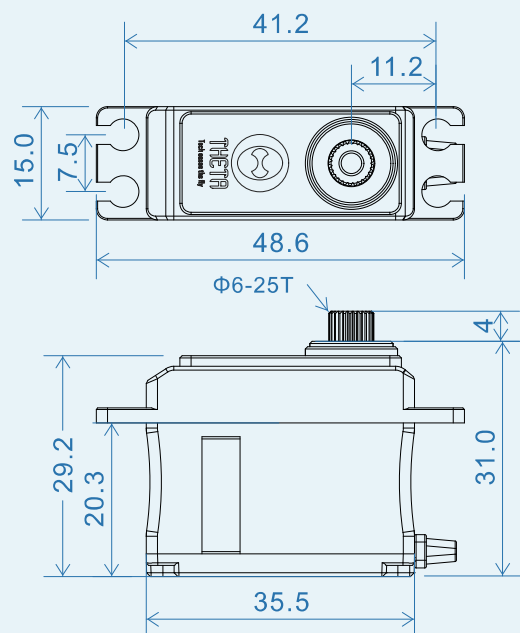
# RAZOR-D1/DT1

53g



# SABRE-C1/T1 THM988/982

46g



# Theta Servo takes the lead in launching NFC tunable Servo

## Tuning tool:

An Android phone with NFC function.

## APP download:

fastech.cc

## Registered:

The international area code (86139...) should be added before the mobile phone number, We are using an international SMS platform.

## Recommendation code:

Please use the recommendation code of the friend who recommended this product to you, "Personal Info" in the APP.

If not recommended by a friend, the recommendation code can be used: **5M4TC1**

## Operating:

1. Enable the NFC function of the mobile phone;
2. Open the APP and click to enter the parameter setting;
3. Use the mobile phone's NFC sensing area, close to the bottom cover of the servo (the servo should be Power off) until the reading is successful;
4. New servos need to be registered before they can be rewritten. The registered servos, Other users cannot rewrite.

## Adjustable parameters:

See the picture on the right;

Recommended adjustment parameters:

Stretching: the value is small, the servo turns more softly, the value is large, and it follows the hand;

Brake: the value is large, the servo turns more slowly, the value is small, follow the hand  
Too small, overshoot;

Output angle: It is recommended to adjust the remote control EPA to the maximum, while use the zero adjustment function of the servo to adjust the zero position, and then adjust this parameter is used to obtain the required output range of the servo; Can get the most delicate remote control feel;

## Maximum current:

Adjust the maximum power of the servo ;  
The maximum current is not recommended to exceed 5A for helicopter.

