

NAN2



Instruction Manual Bedienungsanleitung Manuel d'utilisation Manuale di istruzioni

SAFE® RTF ENE



NOTICE

All instructions, warranties and other collateral documents are subject to change at the sole discretion of Horizon Hobby, LLC. For up-to-date product literature, visit www.horizonhobby. com or www.towerhobbies.com and click on the support or resources tab for this product.

Meaning of Special Language

The following terms are used throughout the product literature to indicate various levels of potential harm when operating this product:

WARNING: Procedures, which if not properly followed, create the probability of property damage, collateral damage, and serious injury OR create a high probability of superficial injury. **CAUTION:** Procedures, which if not properly followed, create the probability of physical property damage AND a possibility of serious injury.

NOTICE: Procedures, which if not properly followed, create a possibility of physical property damage AND a little or no possibility of injury.



WARNING: Read the ENTIRE instruction manual to become familiar with the features of the product before operating. Failure to operate the product correctly can result in damage to the product, personal property and cause serious injury.

This is a sophisticated hobby product. It must be operated with caution and common sense and requires some basic mechanical ability. Failure to operate this Product in a safe and responsible manner could result in injury or damage to the product or other property. This product is not intended for use by children without direct adult supervision. Do not use with incompatible components or alter this product in any way outside of the instructions provided by Horizon Hobby, LLC. This manual contains instructions for safety, operation and maintenance. It is essential to read and follow all the instructions and warnings in the manual, prior to assembly, setup or use, in order to operate correctly and avoid damage or serious injury.

Age Recommendation: Not for children under 14 years. This is not a toy. Safety Precautions and Warnings

- Always keep a safe distance in all directions around your model to avoid collisions or injury. This model is controlled by a radio signal subject to interference from many sources outside your control. Interference can cause momentary loss of control.
- Always operate your model in open spaces away from full-size vehicles, traffic and people.
- · Always carefully follow the directions and warnings for this and any optional support equipment (chargers, rechargeable battery packs, etc.).
- Always keep all chemicals, small parts and anything electrical out of the reach of children.
- · Always avoid water exposure to all equipment not specifically designed and protected for this purpose. Moisture causes damage to electronics.
- Never place any portion of the model in your mouth as it could cause serious injury or even death.

- Never operate your model with low transmitter batteries.
- Always keep aircraft in sight and under control.
- Always move the throttle fully down at rotor strike.
- · Always use fully charged batteries.
- Always keep transmitter powered on while aircraft is powered.
- Always remove batteries before disassembly.
- Always keep moving parts clean.
- Always keep parts dry.
- Always let parts cool after use before touching.
- · Always remove batteries after use.
- Never operate aircraft with damaged wiring.
- · Never touch moving parts.

ΕN 2

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	Specifications					
Length	200mm	Main Rotor Diameter				
Height	79mm	Tail Rotor Diameter				
Flying Weight	32g	Visit www.bladehelis.com				
		to register your helicopter				

ations	
Main Rotor Diameter	197mm
Tail Rotor Diameter	40mm
Visit www.bladehelis.com	

Included

Required

	Components	RTF	BNF
Airframe	Blade Nano S2	Included	Included
Motors	Brushed	Installed	Installed
Flybarless Unit	3-in-1 Control Unit with SAFE® technology	Installed	Installed
Battery	150mAh 1S 3.7V 45C Li-Po Battery	Included	Included
Charger	1S USB Li-Po Charger, 300mA	Included	Included
Transmitter	DSM2®/DSMX® Compatible Transmitter	MLP6DSM Included	Required

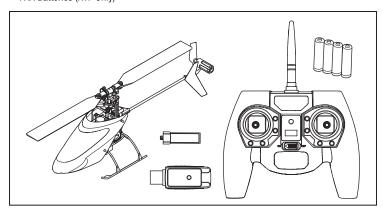
Box Contents

• Blade Nano S2

- 150mAh 1S 3.7V 45C Li-Po Battery (EFLB1501S45)
- 1S USB Li-Po Charger, 300mA (EFLC1008)
- MLP6DSM Transmitter (RTF Only)

Transmitter Batteries 4 AA

• 4 AA Batteries (RTF Only)



USB Charging Warnings

The Battery Charger (EFLC1008) included with your hovercraft has been designed to safely charge the Li-Po battery.

WARNING: Failure to exercise caution while using this product and comply with the following warnings could result in product malfunction, electrical issues, excessive heat, FIRE, and ultimately injury and property damage.

- NEVER LEAVE CHARGING BATTERIES UNATTENDED.
- NEVER CHARGE BATTERIES OVERNIGHT.
- Never attempt to charge dead, damaged or wet battery packs.
- Never attempt to charge a battery pack containing different types of batteries.
- Never allow children under 14 years of age to charge battery packs.
- Never charge batteries in extremely hot or cold places or place in direct sunlight.
- Never charge a battery if the cable has been pinched or shorted.
- Never connect the charger if the power cable has been pinched or shorted.
- Never attempt to dismantle the charger or use a damaged charger.
- Always use only rechargeable batteries designed for use with this type of charger.
- Always inspect the battery before charging.
- Always keep the battery away from any material that could be affected by heat.

- Always monitor the charging area and have a fire extinguisher available at all times.
- Always end the charging process if the battery becomes hot to the touch or starts to change form (swell) during the charge process.
- Always connect the positive leads (+) and negative leads (-) correctly.
- Always disconnect the battery after charging, and let the charger cool between charges.
- Always charge in a well-ventilated area.
- Always terminate all processes and contact Horizon Hobby if the product malfunctions.
- Charge only rechargeable batteries. Charging non-rechargeable batteries may cause the batteries to burst, resulting in injury to persons and/or damage to property.
- The USB outlet shall be installed near the equipment and shall be easily accessible.

CAUTION: Always ensure the battery you are charging meets the specifications of this charger. Not doing so can result in excessive heat and other related product malfunctions, which can lead to user injury or property damage. Please contact Horizon Hobby or an authorized retailer with compatibility questions.

CAUTION: If at any time during the charge process the battery pack becomes hot or begins to puff, disconnect the battery immediately and discontinue the charge process as batteries can cause fi re, collateral damage and injuries.

Battery Charging

Your aircraft comes with a 1S 3.7V DC Li-Po battery charger and 1S 3.7V 150mAh 45C Li-Po battery. Refer to the charging warnings. It is recommended to charge the battery pack while you are inspecting the aircraft. The flight battery will be required to confirm proper aircraft operation in future steps.

NOTICE: Charge only batteries that are cool to the touch and are not damaged. Look at the battery to make sure it is not damaged e.g., swollen, bent, broken or punctured.

- 1. Insert the charger into a USB port. The charger only uses power from the USB port, it will not connect to your computer. USB power supplies, such as those used to charge cellular phones, can also be used.
- 2. Slide the battery into the slot on the charger and press it into the charge jack/connector located at the bottom of the slot. The end cap of the battery is specifically designed to allow the battery to fit into the slot one way (usually with the label on the battery facing outward) to prevent reverse polarity connection, however, check for proper alignment and polarity.
- 3. Always disconnect the flight battery from the

charger immediately upon completion of charging.

CAUTION: Only use chargers specifically designed to charge the included Li-Po battery. Failure to do so could result in fire, causing injury or property damage.

CAUTION: Never exceed the recommended charge rate.

LED Indications

When you make the connection successfully, the LED on the charger turns solid red, indicating charging has begun. Charging a fully discharged (not over-discharged) 150mAh battery takes approximately 30-40 minutes. The light goes out when the charge is complete.

Solid Red: Charging **OFF:** Max Charge





CAUTION: Once charging is complete, immediately remove the battery. Never leave a battery connected to the charger.

Transmitter Setup Table (BNF)

DX6i

D/(O)														
SETUP LIST ADJUST LIST														
Model Type	HELI	TRAVEL ADJ D/R & Ex					Ехро	00						
Swash Type	1 servo 90	Channel	Tra	vel	CI	nan	Sv	v Pos		D/	R		Exp	0
REVERSE		THR0	100/		$ _{\lambda_1}$	LE		0		10	_		0	
Channel	Direction	AILE	100/		Ľ			1		10	0		0	
THRO	N	ELEV	100/		FI	EV		0		10	0		0	
AILE	N		100/		Ľ	.L V	<u> </u>	1		10	0		0	
ELEV	N	GYR0	100/		$ _{\mathbb{R}^1}$	JDD	<u></u>	0		10	0		0	
RUDD	N	PITC	100/	/100		טטנ	<u> </u>	1		10	0		0	
GYR0	N	Throttle C	urve					Pitch	Cur	ve				
PITC	R	Switch Pos	Doc	Doell	Doc	Doc	Doc	Switch			Pne	Pne	Pne	Pne
Modulation	Tuno	(F Mode)	1 13	2	3	4	5	(F Mod	1	1	2	3	4	5
	71.	NORM	<u> </u>		50	<u> </u>	100	NORM	_	0	25	50	75	100
AUTO DSM	X-ENABLE	STUNT	ı ~	100				STUN	_	0	25	50	75	100
D/R COMBI		HOLD	1.00	100	0	100	100	HOLD	_	0	25	50	75	100
D/R SW	AILE		_		Ě									
Timer	T:				A 0	-				E 8 4 C	DEL			
	4.00						0/	=	_	_	_	HODE	4	
Switch	THR CUT		\rightarrow		_			1			_			U
OWITOH	11111 001	SW	[YR0	IK	IM –	IIVH	ш		<u> 15%</u>		STUN		
Timer Down Timer	4:00	Mixing GYRO->GYF Rate		-80%	ΑC	Γ J +0	%	RATE :	SW-	-F.MC 90%	_	VORM	—— Л	0

Panic Mode Operation

Gyro Switch: Pos 0 = Panic Mode Off. Pos 1 = Panic Mode On

Gyro Switch: Pos 0 = Panic Mode Off, Pos 1 = Panic Mode On													
DX7s, DX8													
SYSTEM SET	UP	FUNC	TION	LIST									
Model Type	HELI	Servo	Setu	р									
Swash Type	1 servo	Chan		avel	Reve		Cha		Tra			leve	
	Normal	THR	_	0/100			GER	_	100/		_	Norm	
F-Mode Setu		AIL ELE		0/100 0/100			PIT AX2	_	100/		_	Norm	
Flight Mode	F Mode	RUD		0/100 0/100			=		100/			Norn	iai
Hold	Hold			J/ 100	INOIT	IIai		ttle C	urve				
SW Select		D/R &		h Doo			Switc						
Trainer	Aux 2		Switc (Ail				(FM		DI 4	DT 0	שר ט	DI 4	D. F
F Mode	Gear	Chan	DX7s		D/R	Ехро	N N	DX8 N	0	25	50	75	100
Gyro	INH	Onan	DATE	0	100/100	0	1	1	0	25	75	80	100
Mix	INH	AILE	0	1	100/100	0		2	100		100		100
Hold Knob	INH		1	2	100/100	0	Thro	ttle C		100	100	100	100
	IIVIT			0	100/100	0		hrott		_	_	0%	
Frame Rate		ELEV	0	1	100/100	0			_	_		J /U	_
22m:		<u> </u>	1	2	100/100	0	Pitch			_	_		
DSM	X			0	100/100	0		ch Pos (lode)	١.				
		RUDD	0	1	100/100	0	DX7s		- La	1 0+ 1	D+ 2	D+ 4	Pt 5
				2	100/100	0	N N	N	0	25		75	100
		Gyro					1	1	0	25		75	100
				INH				2	0	25		75	100
Panic Mode 0		Mixing					HOLD	HOLI		25		75	
Trainer/Bind	Button	Channe	els	Al	JX2 > GE	R	Time	r					
Pressed =		Rate		100	% 20)%	Mode				nt D		
Panic Mode	Un	Offset			100%		Time)0 To		
Released =		Trim			INH		Start				ottle		
Panic Mode	Off	Position	n i	N	I H	М	0ver				25%		
			_				l						

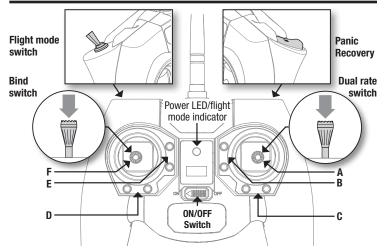
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SYSTEM SETUP

FUNCTION LIST

Model Type	HELI	Servo	Servo Setup									
Swash Type	Normal	Chan	Trave	el R	everse	Τ	Chan	Tra	Travel		Reverse	
F-Mode Setu	in	THR	100/1	00 N	ormal	1	RUD	100)/100)	Norm	nal
Switch 1	Switch B	AIL	100/1	00 N	Normal		GER	100	100/100		Normal	
Throttle Cut	-130%	ELE	100/1	100/100 Normal		Normal PIT 1		100	00/100 Norma			nal
		D/R & Expo				T	Throttle Cur	ve				
Channel Assi		Chan	Sw (F) Pos	D/R	Expo	113	Sw (B) Pos	Pt 1			Pt 4	Pt 5
Channel Inp			0	100/10		╬	N	0	25	50	75	100
1 Throttle	Throttle	AILE	1	100/10	0 0	╫	1	0	25	50	75	100
2 Aileron	Aileron	ELEV	0	100/10	0 0	1	2	100	100	100	100	100
3 Elevator	Elevator	CLEV	1	100/10			HOLD	0	0	0	0	0
4 Rudder	Rudder	RUDD	0	100/10	-	ļſ	Pitch Curve					
5 Gear	Switch B	11000	1	100/10	0 0][Sw (B) Pos	Pt1	Pt 2	Pt 3	Pt 4	Pt 5
6 AUX 1	INH	Mixin	q			٦ľ	N	0	25	50	75	100
7 AUX 2			GER ->	GER			1	0	25	50	75	100
Frame Rate		Rate	10	0%	100%	1	2	0	25	50	75	100
22m	s	Offset		20%)	1L	HOLD	0	25	50	75	100
DSM	X	Switc	h	Switc	١l][Timer					
Panic Mode (Operation					Ī	Mode		С	ount [Down	
Bind / I Butto	•					ľ	Time			4:0	0	
Pressed = F	Panic Mode	0n				1	Start		T	hrottle	e Out	
Released =	Panic Mode	e Off				- 1-	Over			259		
							One Time			Inhil	oit	
DX7G2, DX8	e, DX8G2	2, DX9	iX12, DX	18, DX	20							
SYSTEM SET	ГИР	FUNC	TION LIST									
Model Type	HELI	Sorvo	Setup									
Swash Type	Normal	Chan	Trave	ı F	everse	Т	Chan	Tr	avel		Reve	ree
		THR				┨	PIT	_	0/100			30
F-Mode Setu		AIL		-				10			Norm	nal
Switch 1	Switch B	ELE		100/100 N		┨	I AX2	10		_	Norm	
Switch 2			100/100 Normal				AX2 AX3	_	0/100		Norm	nal
Throttle Cut	Inhibit	RUD		-			AX2 AX3 AX4	10	0/100 0/100		_	nal nal
Channel Assi	-130%		100/10	00 1	Vormal	- - - - 	AX3 AX4	10 10	0/100		Norm	nal nal
011411110171001	-130%	RUD GER	100/10	00 1	Normal Normal		AX3 AX4 Throttle Cur	10 10 ve	0/100 0/100 0/100		Norm Norm	nal nal nal
Channel Inp	-130% gn	RUD GER D/R & I	100/10 100/10 Expo	00 1	Normal Normal Normal	ji	AX3 AX4 Throttle Cur Sw (B) Pos	10 10 ve	0/100 0/100 0/100	2 Pt 3	Norm Norm Norm	nal nal nal
	-130% gn	RUD GER	100/10 100/10 Expo Sw (F) Pos	00 1 00 1 D/R	Normal Normal Normal	ji	AX3 AX4 Throttle Cur Sw (B) Pos N	100 100 ve Pt 1	0/100 0/100 0/100 1 Pt 2	2 Pt 3	Norm Norm Norm	nal nal Pt 5
Channel Inp	-130% gn ut	RUD GER D/R & I Chan	100/10 100/10 Expo Sw (F) Pos	00 1 00 1 D/R 100/10	Normal Normal Normal Expo	ji	AX3 AX4 Throttle Cur Sw (B) Pos N	100 100 ve Pt 1 0	0/100 0/100 0/100 1 Pt 2 25	2 Pt 3 50 50	Norm Norm Norm 1 Pt 4 75 75	nal
Channel Inp 1 Throttle	-130% gn ut INH	RUD GER D/R & I	100/10 100/10 Expo Sw (F) Pos 0 1	00 1 00 1 D/R 100/10 100/10	Normal Normal Normal Expo 0 0 0	ji	AX3 AX4 Throttle Cur Sw (B) Pos N 1 2	100 100 Pt 1 0 0	0/100 0/100 0/100 1 Pt 2 25 25 100	2 Pt 3 50 50 100	Norm Norm Norm 175 175 100	ral
Channel Inp 1 Throttle 2 Aileron 3 Elevator	-130% gn ut INH INH INH	RUD GER D/R & I Chan	100/10 100/10 Expo Sw (F) Pos	00 1 00 1 D/R 100/10	Vormal Normal Normal Expo 00 0 00 0		AX3 AX4 Throttle Cur Sw (B) Pos N 1 2 HOLD	100 100 100 100 0 100 0	0/100 0/100 0/100 1 Pt 2 25	2 Pt 3 50 50	Norm Norm Norm 1 Pt 4 75 75	nal
Channel Inp 1 Throttle 2 Aileron 3 Elevator 4 Rudder	-130% gn ut INH INH INH INH	RUD GER D/R & I Chan	100/10 100/10 Expo Sw (F) Pos 0 1 2	D/R 100/10 100/10 100/10 100/10	Expo 00 0 00 0 00 0 00 0		AX3 AX4 Throttle Cur Sw (B) Pos N 1 2 HOLD Pitch Curve	100 100 100 100 0 100 0	0/100 0/100 0/100 1 Pt 2 25 25 0 100	2 Pt 3 50 50 100 0	Norm Norm Norm Norm 175 75 75 100 0	Pt 5 100 100 100 0
Channel Inp 1 Throttle 2 Aileron 3 Elevator 4 Rudder 5 Gear	-130% gn ut INH INH INH INH Switch B	RUD GER D/R & I Chan	100/10 100/10 Sw (F) Pos 0 1 2	D/R 100/10 100/10 100/10 100/10	Expo 00 0 00 0 00 0 00 0 00 0 00 0		AX3 AX4 Throttle Cur Sw (B) Pos N 1 2 HOLD Pitch Curve Sw (B) Pos	100 100 ve Pt 1 0 0 100 0	0/100 0/100 0/100 1 Pt 2 25 25 0 100 0	2 Pt 3 50 50 100 0	Norm Norm Norm 175 175 100 0	Pt 5 100 100 100 0
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Channel Inp 1 Throttle 2 Aileron 3 Elevator 4 Rudder 5 Gear 6 AUX 1 7 AUX 2	-130% gn ut INH INH INH INH Switch B	RUD GER D/R & I Chan	100/10 100/10 Sw (F) Pos 0 1 2 0 1 2 0 1	D/R 100/10 100/10 100/10 100/10 100/10 100/10 100/10 100/10 100/10 100/10	Normal N		AX3 AX4 Throttle Cur Sw (B) Pos N 1 2 HOLD Pitch Curve Sw (B) Pos N 1	100 100 100 0 0 100 0 0 100 0 0 0 0 0 0	0/100 0/100 0/100 0/100 1 Pt 2 25 25 25 1 100 0 Pt 2 25 25 25 25 25 25 25 25 25 25 25 25 25	2 Pt 3 50 50 0 0 0 50 50 50 50 50	Norm Norm Norm Norm Norm Norm 75 75 75 100 0	Pt 5
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Channel Inp 1 Throttle 2 Aileron 3 Elevator 4 Rudder 5 Gear 6 AUX 1 7 AUX 2 Frame Rate 22m	-130% gn ut INH INH INH INH INH INH Switch B INH	RUD GER D/R & Chan AILE	100/10 100/10 Sw (F) Pos 0 1 2 0 1 2 0 1 2	D/R 100/10 100/10 100/10 100/10 100/10 100/10 100/10 100/10 100/10 100/10	Normal N		AX3 AX4 Throttle Cur Sw (B) Pos N 1 2 HOLD Pitch Curve Sw (B) Pos N 1 2 HOLD Curve Sw (B) Pos N 1 2 HOLD	100 100 100 0 0 100 0 0 100 0 0 0 0 0 0	0/100 0/100 0/100 0/100 1 Pt2 25 25 25 0 0	2 Pt 3 50 50 0 0 0 50 50 50 50 50	Norm Norm Norm Norm 175 75 100 0 Pt 4 75 75 75 75	Pt 5 100 100 100 100 100 100 100 100 100
Channel Inp 1 Throttle 2 Aileron 3 Elevator 4 Rudder 5 Gear 6 AUX 1 7 AUX 2 Frame Rate	-130% gn ut INH INH INH INH INH INH Switch B INH	RUD GER D/R & I Chan AILE ELEV RUDD	100/10 100/10 Sw (F) Pos 0 1 2 0 1 2 0 1 2	D/R 100/10 100/10 100/10 100/10 100/10 100/10 100/10 100/10 100/10	Normal N		AX3 AX4 Throttle Cur Sw (B) Pos N 1 2 HOLD Pitch Curve Sw (B) Pos N 1 2 HOLD Timer	100 100 100 100 100 100 100 100 100 100	0/100 0/100 0/100 0/100 1 Pt2 25 25 25 25 25 25 25 25 25 25 25 25 25	Pt 3 50 50 50 50 50 50 50	Norm Norm Norm Norm Norm Norm Norm 75 75 1000 0 Pt 4 75 75 75 75 75 75	Pt 5 100 100 100 100 100 100 100 100 100
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Channel Inp 1 Throttle 2 Aileron 3 Elevator 4 Rudder 5 Gear 6 AUX 1 7 AUX 2 Frame Rate 22m	-130% gn ut INH INH INH INH Switch B INH	RUD GER D/R & I Chan AILE ELEV RUDD	100/10 100/10 Sw (F) Pos 0 1 2 0 1 2 0 1 2 0 1 2	D/R 100/10 100/10 100/10 100/10 100/10 100/10 100/10 100/10 100/10 100/10 100/10	Expo O		AX3 AX4 Throttle Cur Sw (B) Pos N 1 2 HOLD Pitch Curve Sw (B) Pos N 1 2 HOLD Timer Mode Time	100 100 100 100 100 100 100 100 100 100	0/100 0/100 0/100 0/100 1 Pt2 25 25 25 25 25 25 25 25 25 25 25 25 25	2 Pt 3 50 50 50 50 50 50 50 50 50 50 50	Norm Norm Norm Norm Norm Norm 100 100 100 100 100 100 100 100 100 10	Pt 5 100 100 100 100 100 100 100 100 100
Channel Inp 1 Throttle 2 Aileron 3 Elevator 4 Rudder 5 Gear 6 AUX 1 7 AUX 2 Frame Rate 22m DSM Panic Mode (Bind / I Butte	-130% gn ut INH INH INH INH Switch B INH S X	RUD GER D/R & Chan AILE ELEV RUDD Mixing Rate Offset Switch	100/10 100/10 Sw (F) Pos 0 1 2 0 1 2 0 1 2 0 1 2	D/R 100/10 100/10 100/10 100/10 100/10 100/10 100/10 100/10 100/10 100/10	Expo O		AX3 AX4 Throttle Cur Sw (B) Pos N 1 2 HOLD Pitch Curve Sw (B) Pos N 1 2 HOLD Timer Mode	100 100 100 100 100 100 100 100 100 100	0/100 0/100 0/100 0/100 1 Pt2 25 25 25 25 25 25 25 25 25 25 25 25 25	2 Pt 3 50 50 0 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Norm Norm Norm Norm Norm Norm 175 75 75 100 0 Pt 4 75 75 75 75 75 75 00 00 00 00 00 00 00 00 00 00 00 00 00	Pt 5 100 100 100 100 100 100 100 100 100
Channel Inp 1 Throttle 2 Aileron 3 Elevator 4 Rudder 5 Gear 6 AUX 1 7 AUX 2 Frame Rate	gn ut INH INH INH INH Switch B INH S X Departion On Panic Mode	RUD GER D/R & Chan AILE ELEV RUDD Mixing Rate Offset Switch On	100/10 100/10 Sw (F) Pos 0 1 2 0 1 2 0 1 2 0 1 2	D/R 100/10 100/10 100/10 100/10 100/10 100/10 100/10 100/10 100/10 100/10 20%	Expo O		AX3 AX4 Throttle Cui Sw (B) Pos N 1 2 HOLD Pitch Curve Sw (B) Pos N 1 2 HOLD Timer Mode Time Start	100 100 100 100 100 100 100 100 100 100	0/100 0/100 0/100 0/100 1 Pt2 25 25 25 25 25 25 25 25 25 25 25 25 25	2 Pt 3 50 50 50 50 50 50 50 50 50 50 50	Norm Norm Norm Norm 175 175 100 0 175 175 175 175 175 175 175 175 175 175	Pt 5 100 100 100 100 100 100 100 100 100 10

Transmitter Control (RTF)



When pressed down, trim buttons make a sound that increases or decreases in pitch at each pressing. The middle or neutral trim position is heard as a middle tone in the pitch range of the sounds. The end of the control range is sounded by a series of beeps.

	Α	В	С	D	E	F
Mode 1	Aileron (Left/Right) Throttle (Up/Down)	Throttle Trim	Aileron Trim	Rudder Trim	Elevator Trim	Rudder (Left/Right) Elevator (Up/Down)
Mode 2	Aileron (Left/Right) Elevator (Up/Down)	Elevator Trim	Aileron Trim	Rudder Trim	Throttle Trim	Rudder (Left/Right) Throttle (Up/Down)

Dual Rate Selection

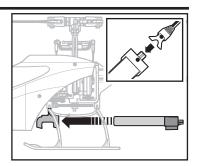
The control sensitivity can be changed by pressing and releasing the right control stick. The LED on the transmitter will show solid for high sensitivity (default) and flashing for low sensitivity.

Installing the Flight Battery

- Lower the throttle and throttle trim to the lowest settings.
- 2. Power on the transmitter.
- 3. Install the flight battery in the battery holder. Connect the battery cable to the 3-in-1 control unit.

NOTICE: Do not allow the helicopter to move until the blue LED on the 3-in-1 control unit is solid.

NOTICE: Always disconnect the Li-Po battery from the 3-in-1 control unit of the aircraft when not flying. Failure to do so may result in over discharge.



Transmitter and Receiver Binding

Binding is the process of programming the receiver of the control unit to recognize the GUID (Globally Unique Identifier) code of a single specific transmitter. You need to 'bind' your chosen Spektrum™ DSM2 ®/DSMX ® technology equipped aircraft transmitter to the receiver for proper operation.

If you purchased an RTF model, the transmitter is bound to the model at the factory.

If for any reason you need to re-bind your Nano S2 to the MLP6DSM, follow the directions below:

Binding Procedure for the MLP6DSM (RTF)

- Disconnect the flight battery from the helicopter.
- 2. Power off the transmitter and move all switches to the 0 position.
- 3. Connect the flight battery to the helicopter. The 3-in-1 Control unit LED flashes after 5 seconds.
- Push and hold the bind/panic button/trigger and hold the rudder control stick to full left while powering on the transmitter.
- Release the bind/panic button/trigger. Continue to hold the rudder control stick to full left until the LED on the 3-in-1 control unit is solid.
- 6. Release the rudder control stick.
- 7. Disconnect the flight battery and power the transmitter off.

NOTICE: If the swashplate moves up and down when the trainer switch is moved, the helicopter is in computer transmitter mode. Repeat the binding procedure.

To bind your Nano S2 to your chosen transmitter, follow the directions below:

Binding Procedure for Computer Radios (BNF)

- 1. Disconnect the flight battery from the helicopter.
- 2. Power off the transmitter and move all switches to the 0 position.
- 3. Connect the flight battery to the helicopter. The 3-in-1 Control unit LED flashes after 5 seconds.
- 4. Push the bind switch/button while powering on the transmitter.
- 5. After 2-3 seconds, release the bind switch/button.
- Move the rudder control stick to full right. Continue to hold the rudder control stick to full right until the blue LED on the 3-in-1 control unit is solid.
- Release the rudder control stick.
- 8. Disconnect the flight battery and power the transmitter off.

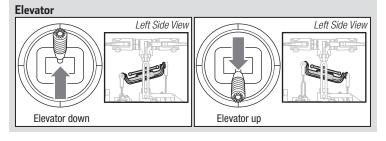
NOTICE: The throttle will not arm if the transmitter's throttle control is not put at the lowest position and the stunt mode switch is not in the 0 position.

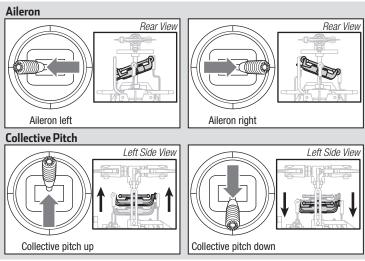
If you encounter problems, refer to the troubleshooting guide for other instructions. If needed, contact the appropriate Horizon Hobby Product Support office.

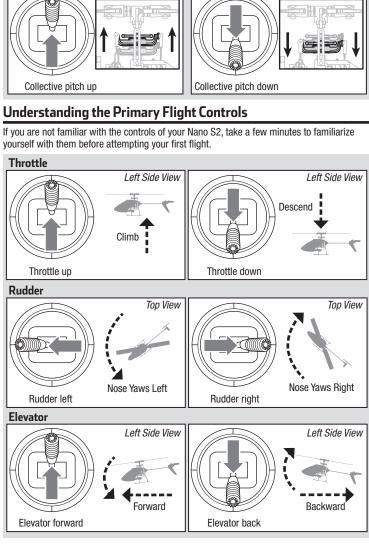
Control Tests

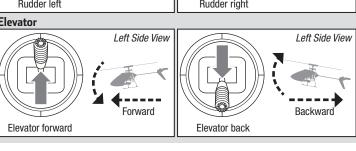
Ensure the throttle hold is ON when doing the direction control tests. Test the controls prior to the first flight to ensure the servos, linkages and parts operate correctly.

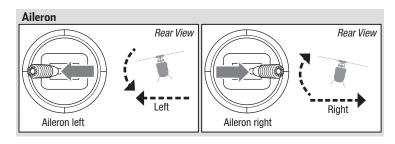
If the controls do not react as shown in the illustrations below, confirm the transmitter is programmed correctly.











Flight Modes

The Nano S2 RTF comes with the Blade MLP6DSM transmitter. This transmitter has a flight mode switch that lets the pilot change among the following flight modes.

Throttle Hold (switch position 0)

Throttle hold is used to turn off the helicopter motors if the helicopter is out of control, in danger of crashing or both. Activate throttle hold anytime the helicopter is in danger to reduce the chance of damaging the helicopter in a crash.

Stability Mode Z (switch position 1)

- Stability Mode is typically preferred by pilots with less experience flying collective pitch helicopters.
- The helicopter will limit the bank angle, even with full control input, and return the aircraft to a level flight attitude when the controls are released.
- controls are released.

 The vaw rate is slowed for ease of control.
- The Panic Recovery button returns the helicopter to upright, level attitude.
- The throttle mode is normal.
 Low throttle stick position = 0% throttle.
- The helicopter uses the stability sensor to help control ascent and descent rates.

3D Mode (switch position 2)

 3D Mode is intended for pilots with experience with collective pitch helicopters.

- The model will NOT return to a level attitude position when you release the controls.
- The helicopter has no bank angle limit.
- Both the cyclic and yaw controls are at fast, aerobatic rate.
- The Panic Recovery button returns the helicopter to a level attitude, either upright or inverted, whichever is closer.
- The throttle mode is "Idle up." The motor remains at a constant speed, regardless of the throttle stick position. The throttle stick controls the pitch of the main rotor blades.

If you choose to use a computer radio, programmed as shown in the *Transmitter Setup Table* section, the flight mode switch gives the pilot the choice between the following flight modes:

Stability Mode Z (*switch position 0*) as previously described.

Stability Mode (switch position 1)

 Stability Mode shares the same characteristics as Sability Z mode but without the stability sensor to help control the ascent and descent rates.

3D Mode (*switch position 2*) as previously described.

Activate Throttle Hold with the Hold switch.

Panic Recovery

If you get into distress while flying in any mode, push and hold the Bind/Panic Switch and move the control sticks to their neutral position. SAFE technology will immediately return the aircraft to an upright level attitude, if the aircraft is at a sufficient height with no obstacles in its path. Return the collective stick to 50% and release the Panic Switch to turn off Panic Recovery and return to the current flight mode.

 This mode is intended to provide the pilot with the confidence to continue to improve their flight skills.

Move the collective stick to 50% and return all other transmitter controls to neutral for the quickest recovery.

 Once the model has reached a level upright attitude the negative collective is reduced preventing the user from pushing the model into the ground.

NOTICE: Before releasing the panic switch, make sure the collective stick has been returned to the 50% position. Once the panic switch has been released, full negative collective becomes available, which could cause the Nano S2 to descend rapidly.

First Flight Preparation

- · Remove and inspect contents
- . Begin charging the flight battery
- Program your computer transmitter (BNF)
- Install the flight battery in the helicopter (once it has been fully charged)
- Bind your transmitter (BNF)
- Familiarize yourself with the controls
- · Find a suitable area for flying

Flying Checklist

- ☐ Always turn the transmitter on first
- ☐ Plug the flight battery into the lead from the ESC
- ☐ Allow the receiver and ESC to initialize and arm properly
- ☐ Fly the model
- Land the model
- ☐ Unplug the flight battery from the ESC
- ☐ Always turn the transmitter off last

Flying the Nano S2

Consult your local laws and ordinances before choosing a location to fly your aircraft. We recommend flying your aircraft outside in calm winds or inside a large gymnasium. Always avoid flying near houses, trees, wires and buildings. You should also be careful to avoid flying in areas where there are many people, such as busy parks, schoolyards or soccer fields.

It is best to fly from a smooth flat surface as this will allow the model to slide without tipping over. Keep the helicopter approximately 2 ft (600mm) above the ground. Keep the tail pointed toward you during initial flights to keep the control orientation consistent. Releasing the stick in Beginner Mode will allow the helicopter to level itself and activating the Panic Recovery button will level the helicopter quickly. If you become disoriented while in Beginner Mode, slowly lower the throttle stick to land softly. During initial flights, only attempt takeoff, landing and hovering in one spot.

Takeoff

Place the model onto a flat, level surface free of obstacles and walk back 30 feet (10 meters). Slowly increase the throttle until the model is approximately 2 ft. (600mm) off the ground and check the trim so the model flies as desired. Once the trim is adjusted, begin flying the model.

Hovering

Making small corrections on the transmitter, try to hold the helicopter in one spot. If flying in calm winds, the model should require almost no corrective inputs. After moving the cyclic stick and returning it to center the model should level itself. The model may continue to move due to inertia. Move the cycle stick in the opposite direction to stop the movement.

After you become comfortable hovering, you can progress into flying the model to different locations, keeping the tail pointed towards you at all times. You can also ascend and descend using the throttle stick. Once you're comfortable with these maneuvers, you can attempt flying with the tail in different orientations. It is important to keep in mind that the flight control inputs will rotate with the helicopter, so always try to picture the control inputs relative to the nose of the helicopter. For example, forward will always drop the nose of the helicopter.

II EN

Low Voltage Cutoff (LVC)

LVC decreases the power to the motors when the battery voltage gets low. When the motor power decreases and the red LED on the ESC flashes, land the aircraft immediately and recharge the flight battery. LVC does not prevent the battery from over-discharge during storage.

NOTICE: Repeated flying to LVC will damage the battery.

Landing

To land, slowly decrease the throttle while in a low-level hover. After landing, disconnect and remove the battery from the aircraft after use to prevent trickle discharge. Fully charge your battery before storing it. During storage, make sure the battery charge does not fall below 3V per cell.

Troubleshooting Guide

Problem	Possible Cause	Solution
	Throttle at high position	Reset controls with throttle stick and throttle trim at center or lowest setting
Helicopter will not initialize	Switches not in normal position	Set flight mode to OFF/0 and exit throttle hold
	Pitch or throttle servo reversing improperly configured	Reset servo reversing <i>Refer to</i> "Programming your Transmitter"
Helicopter will not spool up	Throttle hold on	Turn off HOLD with throttle low and trim centered or low. <i>Refer to</i> "Throttle Hold"
	Low battery voltage	Completely recharge flight battery
Motor power decreases during flight	Receiver uses default soft Low Voltage Cutoff (LVC)	Recharge the flight battery or replace if the battery performance is poor
Cannot turn off	Stunt Mode switch still on	Set flight mode to OFF/ 0 and exit throttle hold
throttle hold	Throttle not at low position	Reset controls with throttle stick and throttle trim at center or lowest setting
Powers off when flying upside down (inverted)	Flight mode is set to Beginner Mode	Switch the flight mode switch to Intermediate or Experienced Mode before flying inverted
Will not bind properly to non-computer radio	Helicopter binds differently to non-computer radios	Release bind button/ switch after applying left rudder. Do not hold the bind button/ switch after applying left rudder
	Tail boom is cracked	Replace tail boom
Poor tail authority	The tail rotor blade is warped or bent	Twist rotor blade back into position or replace
Climb out rate is greatly reduced	Main gear has slipped on the main shaft	Push main gear back into position

Problem	Possible Cause	Solution
LED on receiver	Transmitter is too near aircraft during binding process	Power off transmitter, move transmitter a larger distance from aircraft, disconnect and reconnect flight battery to aircraft and follow binding instructions
flashes rapidly and aircraft will not bind to transmitter (during binding)	Bind switch or button was not held while transmitter was powered on	Power off transmitter and repeat bind process
(daring binding)	Aircraft or transmitter is too close to large metal object, wireless source or another transmitter	Move aircraft and transmitter to another location and attempt binding again
	Less than a 5-second wait between first powering on transmitter and connecting flight battery to aircraft	Leaving transmitter on, disconnect and reconnect flight battery to aircraft
LED on receiver	Aircraft is bound to a different model memory (<i>ModelMatch</i> ™ radios only)	Select correct model memory on transmitter and disconnect and reconnect flight battery to aircraft
flashes rapidly and aircraft will not	Flight battery/transmitter battery charge is too low	Replace/recharge batteries
respond to transmitter (after binding)	Transmitter may have been bound to a different model (or with a different DSM® Protocol)	Select the right transmitter or bind to the new one
	Aircraft or transmitter is too close to large metal object, wireless source or another transmitter	Move aircraft and transmitter to another location and attempt connecting again
Helicopter vibrates or shakes in flight	Damaged rotor blades, spindle or blade grips	Check main rotor blades and blade grips for cracks or chips. Replace damaged parts. Replace bent spindle

Drift Calibration

The helicopter has been calibrated in the factory before shipment, but it is possible that a crash will cause mechanical distortion of the frame, resulting in a slight drift in Stability mode. In this situation, please follow the calibration procedure.

Before begining the cailbration procedure, fully chage the flight battery and ensure the helicopter and transmitter are bound properly, per the binding instructions.

To calibrate the Blade Nano S2:

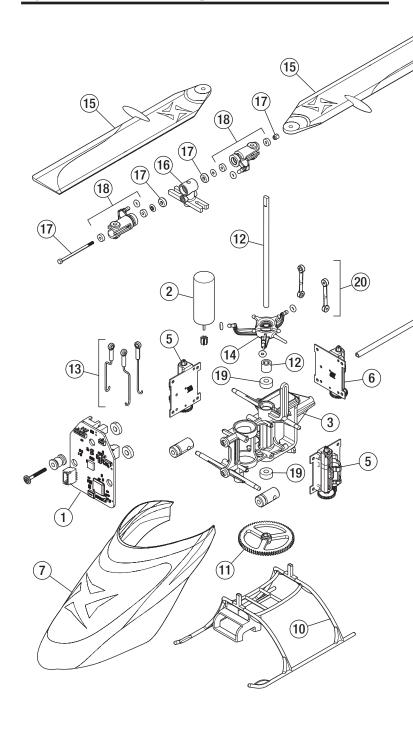
 After initialization, move the transmitter sticks to the bottom, outside corners, as shown in the illustration.

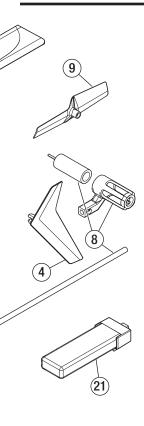




When the red and blue LEDs on the main control board flash slowly, calibration mode is active.

- 2. Release the sticks.
- Slowly advance the throttle to bring the helicopter into a low hover. The red and blue LEDs flash rapidly to indicate the calibration process has begun. Hold the hover for approximately 15 seconds, using as little control input as possible to keep the helicopter steady.
- 4. Land the helicopter by slowly lowering the throttle.
- After Landing, press the bind/panic button to complete the calibration process. The LED will show solid blue.







	Part #	Description
1	BLH1301	Nano S2 Main board
2	BLH2402	nCP S Main motor
3	BLH1302	Nano S2 Main plastic frame
4	BLH1304	Nano S2 Tail Fin
5	SPMSH2027L	DSV40LBC-35 Servo *1
6	SPMSH2028L	DSV40LBC-50 Servo *1
7	BLH1303	Nano S2 Canopy
8	BLH3302	Nano CP X Tail Boom and Motor
9	BLH3603	Tail Rotor
10	EFLH3004	Landing Skid & Battery mount
11	BLH3306	Main Gear
12	BLH3307	Carbon Fiber Main Shaft with Collar
12	DE110307	& Hardware
13	BLH3308	Servo Pushrod set with Ball Links
14	BLH3309	Complete Precision Swashplate
15	BLH1305	Main Rotor Blade Set: Nano S2
16	BLH3312	Main Rotor Hub with Hardware
17	BLH3313	Feathering Spindle with 0-rings and Hardware
18	BLH3314	Main Blade Grips with Bearings
19	BLH3315	2 x 5 x 2 Bearings (2)
20	BLH3322	Rotor Head Linkage Set (4)
21	EFLB1501S45	1-Cell 3.7v 45C LiPo Battery
22	BLH3324	Spindle Tool Set
	BLH3323	Hardware Set
	EFLC1008	1s USB LiPo charger, 300mAh
	SPM6836	Replacement Servo Mechanics
	EFLRMLP6H	MLP6DSM Heli SAFE transmitter
	BLH3021	Canopy Mounting Grommets (8)
	BLH2507	Bearing m2.5x6x1.8 Apache AH-64
	BLH2508	Bearing m2.5x6x2.5 Apache AH-64

Optional Parts

Part #	Description		
	DX6i DSMX 6-Channel Transmitter Only		
	DX7s DSMX 7-Channel Transmitter Only		
	DX6 DSMX 6-Channel Transmitter Only		
	DX7 DSMX 7-Channel Transmitter Only		
	DX8 DSMX 8-Channel Transmitter Only		
	DX9 DSMX 9-Channel Transmitter Only		
	DX18 DSMX 18-Channel Transmitter Only		

Limited Warranty

What this Warranty Covers

Horizon Hobby, LLC, (Horizon) warrants to the original purchaser that the product purchased (the "Product") will be free from defects in materials and workmanship at the date of purchase.

What is Not Covered

This warranty is not transferable and does not cover (i) cosmetic damage, (ii) damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or due to improper use, installation, operation or maintenance, (iii) modification of or to any part of the Product, (iv) attempted service by anyone other than a Horizon Hobby authorized service center, (v) Product not purchased from an authorized Horizon dealer, (vi) Product not compliant with applicable technical regulations, or (vii) use that violates any applicable laws, rules, or regulations.

OTHER THAN THE EXPRESS WARRANTY ABOVE, HORIZON MAKES NO OTHER WARRANTY OR REPRESENTATION, AND HEREBY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE PURCHASER ACKNOWLEDGES THAT THEY ALONE HAVE DETERMINED THAT THE PRODUCT WILL SUITABLY MEET THE REQUIREMENTS OF THE PURCHASER'S INTENDED USE.

Purchaser's Remedy

Horizon's sole obligation and purchaser's sole and exclusive remedy shall be that Horizon will, at its option, either (i) service, or (ii) replace, any Product determined by Horizon to be defective. Horizon reserves the right to inspect any and all Product(s) involved in a warranty claim. Service or replacement decisions are at the sole discretion of Horizon. Proof of purchase is required for all warranty claims. SERVICE OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY.

Limitation of Liability

HORIZON SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY, REGARDLESS OF WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR ANY OTHER THEORY OF LIABILITY, EVEN IF HORIZON HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. Further, in no event shall the liability of Horizon exceed the individual price of

the Product on which liability is asserted. As Horizon has no control over use, setup, final assembly, modification or misuse, no liability shall be assumed nor accepted for any resulting damage or injury. By the act of use, setup or assembly, the user accepts all resulting liability. If you as the purchaser or user are not prepared to accept the liability associated with the use of the Product, purchaser is advised to return the Product immediately in new and unused condition to the place of purchase.

Law

These terms are governed by Illinois law (without regard to conflict of law principals). This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Horizon reserves the right to change or modify this warranty at any time without notice.

WARRANTY SERVICES

Questions, Assistance, and Services

Your local hobby store and/or place of purchase cannot provide warranty support or service. Once assembly, setup or use of the Product has been started, you must contact your local distributor or Horizon directly. This will enable Horizon to better answer your questions and service you in the event that you may need any assistance. For questions or assistance, please visit our website at www.horizonhobby.com, submit a Product Support Inquiry, or call the toll free telephone number referenced in the Warranty and Service Contact Information section to speak with a Product Support representative.

Inspection or Services

If this Product needs to be inspected or serviced and is compliant in the country you live and use the Product in, please use the Horizon Online Service Request submission process found on our website or call Horizon to obtain a Return Merchandise Authorization (RMA) number. Pack the Product securely using a shipping carton. Please note that original boxes may be included, but are not designed to withstand the rigors of shipping without additional protection. Ship via a carrier that provides tracking and insurance for lost or damaged parcels, as Horizon is not responsible for merchandise until it arrives and is accepted at our facility. An Online Service Request is available at http://www.horizonhobby.com/content/service-center_renderservice-center. If you do not have internet access, please contact Horizon Product Support to obtain a RMA number along with instructions for submitting your product for service. When calling Horizon, you will be asked to provide your complete name, street address, email address and phone number

where you can be reached during business hours. When sending product into Horizon, please include your RMA number, a list of the included items, and a brief summary of the problem. A copy of your original sales receipt must be included for warranty consideration. Be sure your name, address, and RMA number are clearly written on the outside of the shipping carton.

NOTICE: Do not ship Li-Po batteries to Horizon. If you have any issue with a Li-Po battery, please contact the appropriate Horizon Product Support office.

Warranty Requirements

For Warranty consideration, you must include your original sales receipt verifying the proof-of-purchase date. Provided warranty conditions have been met, your Product will be serviced or replaced free of charge. Service or replacement decisions are at the sole discretion of Horizon.

Non-Warranty Service Should your service not be covered by warranty, service will be completed and payment will be required without notification or estimate of the expense unless the expense exceeds 50% of the retail purchase cost. By submitting the item for

service you are agreeing to payment of the service without notification. Service estimates are available upon request. You must include this request with your item submitted for service. Non-warranty service estimates will be billed a minimum of ½ hour of labor. In addition you will be billed for return freight. Horizon accepts money orders and cashier's checks, as well as Visa, MasterCard, American Express, and Discover cards. By submitting any item to Horizon for service, you are agreeing to Horizon's Terms and Conditions found on our website http://www.horizonhobby.com/content/service-center_render-service-center.

ATTENTION: Horizon service is limited to Product compliant in the country of use and ownership. If received, a noncompliant Product will not be serviced. Further, the sender will be responsible for arranging return shipment of the un-serviced Product, through a carrier of the sender's choice and at the sender's expense. Horizon will hold non-compliant Product for a period of 60 days from notification, after which it will be discarded.

10/15

Warranty and Service Contact Information

Country of Purchase	Horizon Hobby	Contact Information	Address	
USA	Horizon Service Center (Repairs and Repair Requests)	servicecenter.horizonhobby. com/RequestForm/	2904 Research Rd Champaign, Illinois 61822 USA	
	Horizon Product Support (Product Technical Assistance)	productsupport@ horizonhobby.com 877-504-0233		
	Sales	websales@horizonhobby. com 800-338-4639		
EU	Horizon Technischer Service	service@horizonhobby.eu	Hanskampring 9 D 22885 Barsbüttel,	
	Sales: Horizon Hobby GmbH	+49 (0) 4121 2655 100	Germany	

FCC Information

FCC ID: BRWDXMTX10 FCC ID: BRWBLH1301

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This product contains a radio transmitter with wireless technology which has been tested and found to be compliant with the applicable regulations governing a radio transmitter in the 2.400GHz to 2.4835GHz frequency range.

Supplier's Declaration of Conformity Blade Nano CP S V2 RTF (BLH1300) BRWDXMTX10 | BRWBLH1301

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no quarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Horizon Hobby, LLC 2904 Research Rd. Champaign, IL 61822 Email: compliance@horizonhobby.com

Email: compliance@horizonhobby.com Web: HorizonHobby.com

IC Information

IC ID: 6175A-BRWDXMT | IC ID: 6175A-BLH1301

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Compliance Information for the European Union



EU Compliance Statement: Horizon Hobby, LLC hereby declares that this product is in compliance with the essential requirements and other relevant provisions of the RED and EMC Directives.

A copy of the EU Declaration of Conformity is available online at: http://www.horizonhobby.com/content/support-render-compliance.



Instructions for disposal of WEEE by users in the European Union

This product must not be disposed of with other waste. Instead, it is the user's responsibility to dispose of their waste equipment by handing it over to a designated collections point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it

is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or where you purchased the product.



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Updated 05/19 59725.1 BLH1300 / BLH1380