How to upgrade HOBBYWING F7 flight control (betaflight)

如何升级好盈 F7 飞控(Betaflight)

🕫 Betaflight Configurator				- 🗆 🗙		
EFTAFLIGHT Unfiguater 100 tocromen Film Fage Howholderwink, Skottof/FCO.WKSTM.9247A2J 2029-0227 eff.2094 – Amina Baladed		Gyro Accel Mag Baro	Daraffash: free 15.9MB Cost Source Mode	Update Hirmware		
Setup						
Setup				WIKI		
Calibrate Arreleromater		Thursday and a				
	Place board or frame on reveied surface, proceed with calibration, ensure platform is not moving during ca	iloration period				
Calibrate Magnetometer	Move multirotor at least 360 degrees on all axis of rotation, you have 30 seconds to perform this task					
Failsafe Reset Settings	Reset the flight controller to an unconfigured state.					
X Presets Activate Boot Loader / DFU	Reboot into boot loader / DFU mode.					
A PID Tuning			Instruments	0		
taw: 334 deg		Reset Z axis, offset: -334 deg		-		
Roll: 0.2 deg						
t‡† Adjustments						
Motors						
m OSD			GPS	0		
MA Video Transmitter			3D Fix:	False		
			Current Latitude / Longitude:	0.0000 / 0.0000 deg		
# LED Strip			carrent canader congrade.			
-d- Sensors			System info	0		
📾 Tethered Logging			Arming Disable Flags:	RX_FAILSAFE MSP		
III: Blackbox			Battery voltage:	0.03 V		
🗇 CU			Current draw:	0.00 A		
			RSSI:	0 dBm		
			CPU Temperature:	53 °C		
			Sopror info	0		
			Gyro:	ICM42688P		
			Accel:	ICM42688P		
			Mag:	Not included in build		
			Baro:	DPS310		
			Sonar:	Not included in build		
			Firmware info	0		
			MSP API:	1.46.0		
Port utilization: D: 15 % U: 2 % Packet error: 0 12C error: 0 Cycle Time: 125 CPU Load: 38 %		Configurator: 10.10.0 (c97deaf) ,	Firmware: 4.5.1 BTFL , Target: HOWI/HOBE	YWING_XROTORF7CONV(STM32F7X2)		

After connecting the flight controller normally, click the Update Firmware button in the upper right

corner

正常连接飞控后,点击右上角更新固件按钮

Betaflight Configurator							-	u x
BETAFLIGHT Configurator: 10.10.0(5970ea0) Target: HOWIHOBBYWING, XROTOBF7CONVISTM32F7	1923					11. VCOM28 - Betallight STM32F7x2 💠	Update Firmware	Innect
2025-02-27 @17:11:22 - Configurator has successfully detected and v	verified the board: HOBBYWING_XROTORF7CON	v						Show Log
∿⊭ Welcome								*
Firmware Flasher								WIKI
III Documentation & Support		1		CEDETA				
🍄 Options		NIRBUT	ELECTRONICS	GEPKO				
Firmware Flasher					Warning			- 1
Show release can	ndidates @	Please do not try to flash non-t	Betaflight hardware with this	s firmware flasher.				
HOBBYWING XROTORE	7CONV V Auto-detect	Do not disconnect the board o	or turn off your computer wh	iile flashing.				
4.5.1 [27-Jul-2024]	v@	Note: STM32 bootloader is stor Note: Auto-Connect is always	red in ROM, it cannot be brick disabled while you are inside	ed. firmware flasher.				
No reboot seque	ince Ø	Note: Make sure you have a ba Note: If you have problems flas	ickup; some upgrades/downg shing try disconnecting all c	rades will wipe your configur ables from your FC first, try	ation. rebooting, upgrade drivers.			
Flash on connect	t ()	Note: When flashing boards the drivers installed	at have directly connected US	B sockets (most newer board	is) ensure you have read the USB Flas	hing section of the Betaflight manual and have the	correct software and	
Full chip erase	0	IMPORTANT: Ensure you flash	a file appropriate for your tar	get Flashing a hinary for the	wrong target can cause had things to	hannen		
Manual baud rat	re 256000 🗸 🔞		a me appropriate for your tar	Section in Submit of the	mong tanget can couse said annas to	nappen.		
Core Only			Build Cor	Infiguration				
Radio Protocol				Telemetry Protocol				
CRSF			~ 0	Automatically Included			×	0
Other Options				Motor Protocol				
× Acro Trainer × Cam. C	control KGPS KLED Strip KOSD (Analog	g) × OSD (Digital) × Pin IO ×	Servos ×VIX	DSHOT			Ŷ	с.
Custom Defines								
GYRO_SPI_ICM42688P AG	.CC_SPI_ICM42688P USE_BARO_DPS310		0					
								_
		Accessed	Recovery / Lost	communication			Alexandra and	
If you have lost communication e Power of Enable No reboot seque u jumper the BOOT pins o Power on (activity ED) install all STM2 chivers Close configurator, Res Researce BO context frame Enables and Domest frame Ena	In with your board follow these steps to restore co ence', enable 'Full chip erase'. In hold BOOT button. Will NOT flash if done correctly). and Zadig if required (see USB Flashing section o arrd Configurator. Your IF chas one. are fusion enanual haud rate if specified in your Fl	ommunication: of Betaflight manual). C's manual)						
		Please load firmware file			Evit DEL Mode	Elect Stroware Online	I Load Firmware	Il ocall
					CALIFIC MODE	Load Filmware [Online	Load Finitware	Teocal
Port utilization: D: 0 % U: 0 % Packet error: 0 12C error: 0 Cyc	de Time: 0 CPU Load: 0 %				Cont	igurator: 10.10.0 (c9/deaf) , Target: HOWI/HOBBYV	WING_XKUIORF7CONV(S	PIM32F7X2)

Turn on expert mode and type "CONV" in the flight control name checkbox, it will automatically bring up the hobbywing flight control and load the latest version of firmware automatically. Please select the parameters as shown in the second red box and select the CRSF protocol for the ELRS technology receiver. Please enter the following commands in the blue background color command box:

GYRO_SPI_ICM42688P ACC_SPI_ICM42688P USE_BARO_DPS310

When you are done, click the Download Firmware button in the lower right corner.

开启专家模式,在第一个复选框位置输入"CONV",会自动跳出 hobbywing 飞控,会自动加载最新版本固件。第二个红框中的参数请按照图上选择,ELRS 技术接收机请选择 CRSF 协议。蓝色背景色的指令框请输入如下指令:

GYRO_SPI_ICM42688P ACC_SPI_ICM42688P USE_BARO_DPS310

完成后点击右下角下载固件按钮

Betaflight Configurator			- 🗆 🗙
BETAFLIGHT Linguesee In 188 (878)001 Linguesee In 188 (878)001 Linguesee In 188 (878)001 Linguesee Interventional Interventin Interventio	W\COM28 - Betall		Update Irrmware
2025-02-27 @17.29-37 - Success: /api/builds15fae4c34236033ba19329f7aea706b0/hex			
Velocime Importance Importanc	iappen.		
Firmware Flasher Ralio Protocol Telemetry Protocol			
LKSF V Automatically included			× 0
Other Options Motor Protocol Vacon refere - GPS = FPD Strip = OSD /Analoni = VOSD /Diatani = VPh 10 = VTX O Refer			× 0
GVR0_SPI_CM42688P.ACC_SPI_ICM42688P.USE_BAR0_DPS310			
Wipe out settings Target: HOBBYWING_XROTORF72CONV Manufacturer ID: HOWI Version: 45.3 MGU: STIAI25702 Date: 27,3u-302.0000 Configuration Filename: (sefault) Cloud Build Detail: Show Log. Seture: Seture:			
Recovery / Lost communication			
If you have box communication with your beard follow these steps to restore communication:			
Lauded Online Removance baseRicht & 5 STREATENS MORROWING VEDTORST/COM/ STRead-3 base (2023)5 Stread-			
		contraction (online)	

Once the firmware download is complete, click the Write Firmware button on the left. If the prompt box on the picture pops up, please select the button in the red box 固件下载完成后,点击左边的写入固件按钮。如果弹出图上提示框,请选择红框中的按钮

When the ground station pops up the warning "the target firmware version does not match the flight control, whether to terminate the operation", please choose to continue flashing.

当地面站弹出提示"目标固件版本与飞控不匹配,是否终止操作"警告时,请选择继续刷入

📧 Betaflight Configurator							-	- 🗆 X
BETAFL Configurator: 10.10 Target: HOWVHORS	CONT 21 AS 2000 VVVVVA JOINT OF SECTION VLSTM 32(F7/2)				II ICOM28 - Betaflight STM3	2F7x2 ¢ 5200 ¢	Update Firmware	Connect
2025-02-27 @17:31:17 - Configurat	or has successfully detected and verified the board: HOBBYWING_XROTORF7CONV							
박는 Welcome I빠 Privacy Policy I빠 Documentation & Support	Full chip erase Manual baud rate 256000 O	for your tar	et. Flashing a binary for the wrong target	can cause bad things to	happen.			
Options	Core Only	Build Con	figuration					
🔘 Firmware Flasher	Radio Protocol		Telemetry Protocol					
			Putomatically motored					
	Other Options	0	Motor Protocol					
			buildt					_
	Custom Defines GYRO_SPI_ICM42688P ACC_SPI_ICM42688P USE_BARO_DPS310	0						
		Release an	d Build info					
	Target: HOBBYWING, SKOTORF7CONV Manufacture: DHOW Wanufacture: DHOW Version: 4.5.1 McU: SMA2FN2 Date: 27/94-2024 Configuration: Beaming Cloud Build Details: Show Log: Status: = success (cached)							Wikij ©
	Reco	very / Lost	communication					
	If you have lost communication with your board follow these steps to restore communication: Power off Finale Netwood sequence' enable "full chip ease', Power on lactivity LED will NOT fash if done correctly), Network of SATUR Constant and any of the SATUR Constant and the SATUR Constant and the SATUR Constant and the SATUR Constant and Constant and the SATUR Constant and Co							
							_	*
	Programming: SUCCESSFUL			Exit DFU Mode	Flash Firmware Load Fire	mware [Online]	Load Firr	nware [Local]
Port utilization: D: 0 % U: 0 % Pai	cket error: 0 12C error: 0 Cycle Time: 0 CPU Load: 0 %			Confi	gurator: 10.10.0 (c97deaf) , Target:	HOWI/HOBBYWING	G_XROTORF70	ONV(STM32F7X2)

After waiting for the firmware to be flashed successfully, please wait for about 10s, click the upper right corner to connect the flight control, at this time, the flight control upgrade has been completed.

等待固件刷入成功后,请等待 10s 左右的时间,点击右上角连接飞控,此时飞控升级已完成。