Flysky FS-TH9X

FS-TH9X 2.4GHz 9CH Transmitter User Manual

Model: FS-TH9X
Brand: Flysky

1. Introduction

The Flysky FS-TH9X is a 2.4GHz 9-channel transmitter designed for RC helicopters, airplanes, and gliders. It utilizes the Automatic Frequency Hopping Digital System (AFHDS) developed by Flysky, offering robust anti-jamming capabilities, low power consumption, and high receiver sensitivity. Operating at 2.4 GHz, this system minimizes interference from other electronic components in your RC model, ensuring reliable control.
This manual provides essential information for setting up, operating, and maintaining your FS-TH9X transmitter and its accompanying 8-channel receiver (R9B).

2. What's in the Box

Please verify that all items listed below are present in your package:

- Transmitter
- 8CH receiver R9B
- Binding plug
- Manual
- Remote Controller
- Battery
- Charger

Figure 2.1: Contents of the FS-TH9X package, including the transmitter, R9B receiver, and binding plug.

3. Setup

3.1 Powering the Transmitter

1. Locate the battery compartment on the back of the FS-TH9X transmitter.
2. Insert eight (8) 1.5V AA batteries, ensuring correct polarity. The transmitter requires 12V DC power.
3. Close the battery compartment securely.
4. The transmitter also features a charger port for use with compatible rechargeable batteries and chargers (charger not always included).

Figure 3.1: Rear view of the FS-TH9X transmitter, highlighting the battery compartment and other ports.

3.2 Binding the Receiver (R9B)

Binding is the process of electronically linking the transmitter to the receiver, allowing them to communicate. This procedure typically needs to be performed only once per receiver.

1. Ensure the transmitter is powered off.
2. Connect the binding plug to the B/VCC port on the R9B receiver.
3. Apply power to the receiver (e.g., connect it to an ESC with BEC or a separate receiver battery). The receiver's LED should flash rapidly, indicating it is in binding mode.
4. While holding down the "BIND" button (if present, or follow specific power-on sequence for binding) on the transmitter, power on the transmitter.
5. The receiver's LED should stop flashing and remain solid, indicating successful binding.
6. Turn off both the transmitter and receiver.
7. Remove the binding plug from the receiver.
8. Power on the transmitter first, then the receiver. The receiver's LED should illuminate solid, confirming the link.

Figure 3.2: The FS-TH9X transmitter and R9B receiver, illustrating the components involved in the binding process.

3.3 DSC Port

The DSC (Direct Servo Control) port allows for connection to flight simulators or other external devices for training or configuration purposes. Refer to your simulator's manual for specific connection instructions.

4. Operating the Transmitter

4.1 Basic Controls and Display

The FS-TH9X features a 128x64 dot LCD screen for displaying settings and telemetry data. Navigation through menus is typically done using the scroll-pad and selection buttons.
The transmitter provides 9 channels for controlling various functions of your RC model. The modulation type is GFSK (Gaussian Frequency Shift Keying), and it operates with a sensitivity of 1024.

4.2 Advanced Functions

The FS-TH9X offers a comprehensive suite of programmable functions to fine-tune your model's performance:

- **Throttle Curves:** Adjust the throttle response at different stick positions.
- **Pitch Curves:** Modify the pitch response for helicopters.
- **Endpoint Adjustments:** Set the maximum travel for each servo.
- **Subtrim:** Make fine adjustments to servo neutral positions.
- **Swash AFR Mixes:** Advanced mixing for helicopter swashplate control.
- **Servo Reversing:** Change the direction of servo travel.
- **Timer:** Built-in timer for flight duration tracking.
- **Dual Rate:** Adjust the sensitivity of control surfaces (e.g., aileron, elevator, rudder) for different flight conditions.
- **Exponential:** Soften the control response around the center stick position.
- **Flaperons:** Mix aileron and flap functions for enhanced control.
- **V-Tail Mixing:** Mix elevator and rudder for V-tail aircraft.
- **Elevons:** Mix elevator and aileron for delta wing aircraft.

Detailed instructions for configuring these functions can be found within the transmitter's menu system. Refer to the on-screen prompts and the included manual for specific navigation.

5. Maintenance

5.1 General Care

- Keep the transmitter clean and free from dust and moisture. Use a soft, dry cloth for cleaning.
- Avoid exposing the transmitter to extreme temperatures or direct sunlight for prolonged periods.
- Store the transmitter in a safe place to prevent physical damage.

5.2 Battery Management

- Always remove batteries from the transmitter if it will not be used for an extended period to prevent leakage.
- The transmitter features a low voltage warning system. When the battery voltage drops below a safe operating level, an alert will be displayed on the LCD screen. Replace or recharge batteries immediately when this warning appears to avoid loss of control.
- Use only high-quality 1.5V AA batteries or a compatible rechargeable battery pack with the correct voltage.

6. Troubleshooting

Problem	Possible Cause	Solution
Transmitter does not power on.	Incorrect battery installation, dead batteries.	Check battery polarity. Replace with fresh batteries.
Receiver LED not solid after binding.	Binding failed, transmitter/receiver too far apart, interference.	Repeat the binding procedure carefully. Ensure transmitter and receiver are close during binding. Check for strong interference sources.
Loss of control during operation.	Low transmitter battery, excessive range, strong interference.	Check transmitter battery voltage. Operate within recommended range. The AFHDS system provides strong anti-jamming, but extreme interference can still affect performance.
Controls are reversed or incorrect.	Incorrect servo reversing settings, wrong model type selected.	Adjust servo reversing in the transmitter menu. Verify the correct model type (helicopter, airplane, glider) is selected.
LCD screen is dim or unreadable.	Low battery, contrast setting.	Check transmitter battery. Adjust LCD contrast settings in the menu.

7. Specifications

Model: FS-TH9X

Channels: 9 channels

Model Type: Helicopter, Airplane, Glider

RF Power: Less than 20dB

Modulation: GFSK (Gaussian Frequency Shift Keying)

Sensitivity: 1024

LCD Type: 128*64 dot

Low Voltage Warning: Yes

DSC Port: Yes

Charger Port: Yes

Power: 12V DC (8 x 1.5V AA batteries)

Product Dimensions: 7.48 x 9.45 x 3.15 inches (19 x 24 x 8 cm)

Item Weight: 2.51 pounds (1.14 kg)

Manufacturer: Flysky

8. Warranty and Support

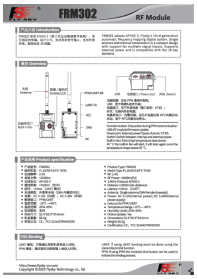
8.1 Warranty Information

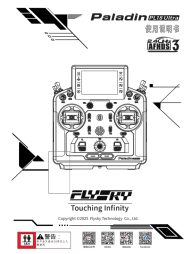
Specific warranty terms and conditions for the FS-TH9X transmitter may vary by region and retailer. Please retain your proof of purchase. For detailed warranty information, contact your point of purchase or visit the official Flysky website.

8.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or inquiries regarding parts and service, please refer to the support section of the official Flysky website or contact your authorized dealer. Online communities and forums dedicated to RC enthusiasts may also provide valuable user-generated support and modification guides.

Related Documents - FS-TH9X

	Flysky FRM302 RF Module: Features, Specifications, and Usage Detailed information on the Flysky FRM302 RF Module, including its introduction, overview, product specifications, binding process, update procedures, failsafe functions, and compatibility with various Flysky transmitters and receivers. This document also covers important safety precautions and FCC compliance statements.
	FLY SKY FS-TH9X Instruction Manual: RC Transmitter Operation Guide Comprehensive instruction manual for the FLY SKY FS-TH9X remote control system. Covers setup, operation, safety, and programming for RC airplanes, helicopters, and gliders. Visit flyskychina.com for technical updates.
	Flysky Noble Pro User Manual - Advanced Radio Control System Guide Comprehensive user manual for the Flysky Noble Pro radio control system, detailing setup, operation, functions, specifications, and safety guidelines for RC models. Learn to use the transmitter, receivers, and advanced features for optimal performance.

	Flysky FS-G11P FS-G11P FS-G11P FS-R11P
	Paladin PL18 Ultra | Flysky 18 Flysky Paladin PL18 Ultra 18 2.4GHz AFHDS 3 Paladin PL18 Ultra Paladin PL18 Ultra
	Flysky FS-G11P Quick Start Guide A comprehensive quick start guide for the Flysky FS-G11P radio transmitter, detailing its features, operations, setup, safety precautions, and specifications.

Documents - Flysky – FS-TH9X

[pdf] User Manual

ManualsLib Makes it easy to find manuals online! Search through 700 000 online and instruction user service guides owners installation Provided By MANUALSLIB COM manualslib Инструкция FS TH9X Аппаратура управления 9 канальная FlySky англ 19 06 18 формат 92 MB Пульт канальный AFHDS с приёмником R8B купить оптом в Прямые дистрибьюции distributions ua files |||

FS-TH9X INSTRUCTION MANUAL Technical updates available at: Http://www.flyskychina.com Entire Contents c Copyright 2007 Downloaded from www.Manualslib.com manuals search engine **FS-TH9X** Table of contents 1.Introduction 2.Service .....2 .....2 9.14 AilDiff 9.15 AIR BRAKES .....35 .....35 3.... lang:en score:52 filesize: 9.92 M page_count: 55 document date: 2015-08-04

[pdf] User Manual Instructions

manual 0 54 FSTH9X robotshop FS TH9X RobotShop Table of contents 6 1 Display Introduction 2 Service 5 Radio installation Receiver and servo connections Charging the Ni Cd batteries 3 Range Testing Your R C System instructions If any difficulties are encountered while setting up or operating your system please consult instruction first MANUAL filename* UTF 8 community forum default original 3X f f12bd009bfb45b6175a8781d6370b6d2ce4ef6c9 ftp tt rc de TT Copter Manuals

FS-TH9X INSTRUCTION MANUAL Technical updates available at: Http://www.flyskychina.com Entire Contents c Copyright 2007 **FS-TH9X** Table of contents 1.Introduction 2.Service .....2 .....2 9.14 AilDiff 9.15 AIR BRAKES .....35 .....35 3.Meaning of special markings .....3 9.16 ELE.Flap .....

lang:en score:46 filesize: 9.82 M page_count: 55 document date: 2004-02-10

[pdf] Decleration of Conformity

FS TH9X DOC DoC EN EU DOC — FlyskyRC 9lmg flysky cn s |||

DECLARATION OF CONFORMITY Hereby we, Manufacturer Name: ShenZhen FLYSKY Technology Co.,Ltd Manufactu ... esponsibility and that this product: Product Name: Digtal propoonal radio control system Model No.: **FS-TH9X** is in conformity with the relevant Union harmonizaon legislaon: Radio Equipment direcve: 201...

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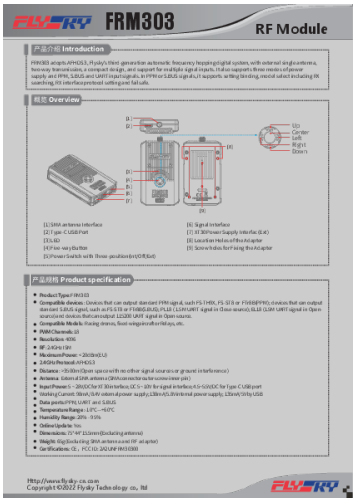

[pdf] User Manual Specifications

USER MANUAL ShenZhen FLYSKY Technology Co Ltd FRM30300 2A2UNFRM30300 frm30300

FRM303 RF Module Introduction FRM303 adopts AFHDS 3, Flysky s third-generation automatic frequenc ... ication Product Type: FRM303 Compatible devices : Devices that can output standard PPM signal, such **FS-TH9X**, FS-ST8 or FTr8B PPM ; devices that can output standard S.BUS signal, such as FS-ST8 or FTr8...

lang:en score:36 filesize: 447.19 K page_count: 3 document date: 2022-07-29

DECLARATION OF CONFORMITY

CE

Hereby we,

Manufacturer Name: ShenZhen FLYSKY Technology Co.,Ltd

Manufacturer Address: ADD 16F, Huafeng Building, No. 6006 Shennan Road, Futian District, Shenzhen, Guangdong, China

Declare that this DoC is issued under our sole responsibility and that this product:

Product description: Digital propotional radio control system

Type designation(s): FS-TH9X

is in conformity with the relevant Union harmonization legislation:

Radio Equipment directive: 2014 / 53 / EU

with reference to the following standards applied:

EN 301489-1 V2.1.1
EN 301489-17 V3.1.1
EN 300328 V2.1.1
EN 62479:2010
EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013

Printed name: **Date:** 2019/09/18

On behalf of Company name: ShenZhen FLYSKY Technology Co.,Ltd

Position within Company: R&D Manager

[pdf] Decleration of Conformity

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DECLARATION OF CONFORMITY Hereby we, Manufacturer Name: ShenZhen FLYSKY Technology Co.,Ltd Manufactu ... at this product: Product description: Digital propotional radio control system Type designation s : **FS-TH9X** is in conformity with the relevant Union harmonization legislation: Radio Equipment directiv...

lang:en score:32 filesize: 987.92 K page_count: 1 document date: 2019-09-18

[pdf] User Manual

fs gt3MANUAL1 cdr INSTRUCTION MANUAL u b7bKQ HobbyPartz 6 Transmitter parameters 187mm 2 8 m 7 Receiver 1 Sepÿ 3N* Sÿ T g yÍÿ fÿ 9ÿ 3 SÑ R s N 20dbm FM 0 8Wÿ ÿ 4 R6e¹ GFSKÿ 4Gÿ 5 x e¹ ep Wÿ epcnR ©s 1024~§ÿ LCDW S÷ 128*64p¹ 5ÿ ONu5S b¥ fR ý ONN 9O 9 epcn Qúc¥Sã ó c¥Sãÿ If you found any problems during the operation process please refer to manual problem still exist could contact our dealers out way solve And 10 QEu5c¥Sãÿ Q kcY 11 u5n h QÆ 12VDC 5AA*8 FS GT3 24ghz Radio gt3 radio site hobbypartz p11 secure hostingprod @site ssl webfolder nitrorcx modeltronic es cochesnitro

FS-GT3 GT3 INSTRUCTION MANUAL Digital propotional radio control sytem Http://www.flysky-cn.com Copy ... FM RF module Frequency:27.35.40MHz RF power:less than 0.8W; Size:65*52*22mm; Weight:29g; Model type:**FS-TH9X**/FS-GT3 FM 35.40.72MHz 0.8W :65*52*22mm :29g :**FS-TH9X**/FS-GT3 MODEL:FS-HTM01 Specification...

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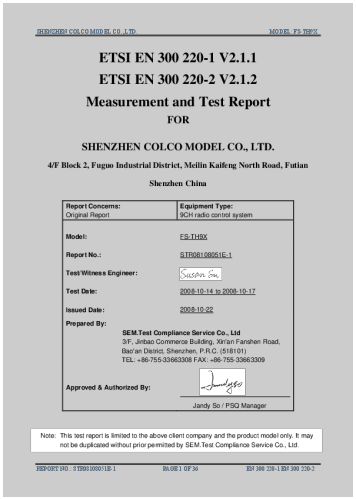

ETSI EN 300 220-1 V2.1.1
ETSI EN 300 220-2 V2.1.2
Measurement and Test Report
FOR
SHENZHEN COLCO MODEL CO., LTD.
4/F Block 2, Fuguo Industrial District, Meilin Kaifeng North Road, Futian
Shenzhen China

Report Concerns: Original Report	Equipment Type: 9CH radio control system
Model:	FS-TH9X
Report No.:	STP08108051E-1
Test/Witness Engineer:	
Test Date:	2008-10-14 to 2008-10-17
Issued Date:	2008-10-22
Prepared By:	SEM.Test Compliance Service Co., Ltd 3/F, Jinbao Commerce Building, Xin'an Fanshen Road, Bao'an District, Shenzhen, P.R.C. (518101) TEL: +86-755-33663308 FAX: +86-755-33663309
Approved & Authorized By:	Jandy So / PSO Manager

Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by SEM.Test Compliance Service Co., Ltd.

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Microsoft Word FS TH9X R TTE EN300220 doc Administrator ETSI EN 300 220 1 V2 2 Measurement and Test Report FOR SHENZHEN COLCO MODEL CO LTD 4 F Block Fuguo Industrial District Meilin Kaifeng North Road Futian Shenzhen China Note This test report is limited to the above client company product model only It may Concerns Original Equipment Type rcgroups forums showatt attachmentid 2638453 |||

SHENZHEN COLCO MODEL CO., LTD. MODEL: **FS-TH9X** ETSI EN 300 220-1 V2.1.1 ETSI EN 300 220-2 V2.1.2 Measurement and Test Report FOR SHENZHEN COLCO MODEL CO., LTD. 4/F Block 2, Fuguo Industrial District, Meilin Kaifeng North Road, Futian Shenzhen China Report Concerns: Original Report Equipment Type...

lang:en score:28 filesize: 1.08 M page_count: 36 document date: 2008-10-22

FLY SKY FS-TH9X Instruction Manual: RC Transmitter Operation Guide

Comprehensive instruction manual for the FLY SKY FS-TH9X remote control system. Covers setup, operation, safety, and programming for RC airplanes, helicopters, and gliders. Visit flyskychina.com for technical updates.

lang:en score:28 filesize: 4.84 M page_count: 55 document date: 2012-04-19

[pdf] User Manual Specifications Documentation

translate googleusercontent c hl ko ie UTF jhchoi Turnigy 9x 2 4GHz radio TGY Personal Drones Apr 25 2011 · channel Futaba Fasst costs between 70 and 100 € How is this possible What the equipment also sold under brand Imax Jamara Air Jump Cu Eurgle We will try to answer these questions by examining its key features limit ourselves functions that apply aircraft electrical To attach a new receiver you must go into menu System Settings then MODEVAT tune PPM mode turn it off Warning there are errors in instruction manual personal drones net 2013 08 80 Radio Manual Quadcopter models Links Documentation |||

Turnigy 9x 2.4GHz radio TGY Page 1 of 25 Turnigy 9x 2.4GHz radio TGY By Bernard Chevalier , Franc ... ions of TGY 9x : The 9x TGY is a radio channel dedicated to 2.4Ghz 8, manufactured by Flysky as the **FS-TH9X**. This is not a low-end model, it is fully programmable and has functions already well advanc...

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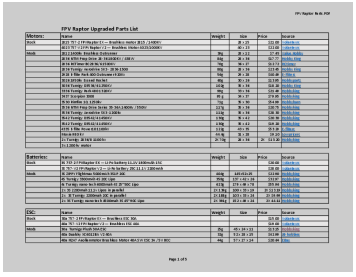

[pdf] Parts List

Paul M FPV Raptor Upgraded Parts List RC Groups FlySky FS TH9X B 2 4G 9CH TX RX N A $109 99 EBay Futaba 10CG 10 16 x 27 47 $125 00 Empirerc OrangeRX RX3S 3 Axis Flight Stabilizer w DSM2 rcgroups forums showatt attachmentid 8456835 |||

Motors: Stock Mods Batteries: Stock Mods ESC: Stock Mods FPV Raptor Upgraded Parts List Name 2815 7 ... Mods Name 757-2 FPVRaptor EX -- 2.4G Transmitter Futaba FP7UAP 7 channel with 72 MHZ module FlySky **FS-TH9X**-B 2.4G 9CH TX RX Futaba 10CG 10-Channel FASST 2.4GHz Computer Systems Walkera DEVO 12S 12C...

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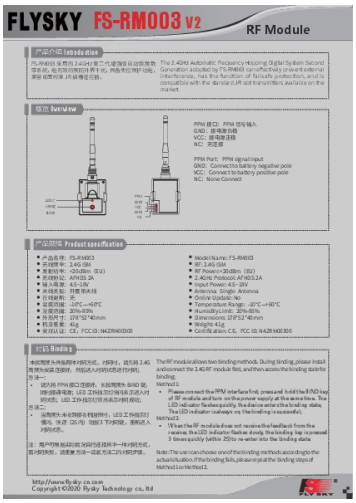

[pdf] Installation Guide Specifications Dimension Guide

FS RM003 V2 V2 20210621 flyskytech u file photo |||

FS-RM003 V2 RF Module Introduction FS-RM003 2.4GHz The 2.4GHz Automatic Frequency Hopping Digi ... it to the receiver, and the fail-safe protection is set successfully. Compatibility PL18/NV14/**FS-TH9X** PPM The FS-RM003 V2 module is compatible with the PL18 / NV14 / **FS-TH9X** along with vari...

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FRM303 AFHDS 3 PPMS.BUS UART PPM S.BUS FRM303 1 2 8 1 SMA 2 Type-C USB 3 4 5 Int/Off/Ext FRM303 3 4 5 6 7 9 6 7 XT30 Ext 8 9 M2 1 1 FRM303 2 3.5MM FS-XC503 3 DIY FS-XC505 FRM303 PPM **FS-TH9X**FS-ST8 FTr8B PP...

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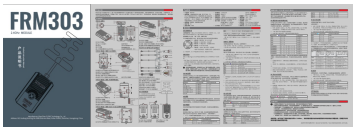

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FRM303 AFHDS 3 PPMS.BUS UART PPM S.BUS FRM303 1 2 8 PPM/S.BUS/RX He ... VCC GND 1 1 FGPZ03 FRM303 1 45 SMA 2 SMA 3 FS-FRA01 2.4G 4 FRM303 PPM **FS-TH9X**FS- ST8FTr8B PPM S.BUS FS-ST8FTr8B S.BUSPL18 -1.5M UART EL18 -1.5M UART -115200 UART 1...

lang:i-klingon score:21 filesize: 2.29 M page_count: 2 document date: 2022-09-22

Flysky FRM303 RF Module User Manual

Comprehensive user manual for the Flysky FRM303 RF module, detailing its features, specifications, setup, operation, and troubleshooting for AFHDS 3 protocol systems. Covers input signals, model settings, RF system binding, failsafe, and power adjustments.

lang:i-klingon score:21 filesize: 2.31 M page_count: 2 document date: 2022-09-22

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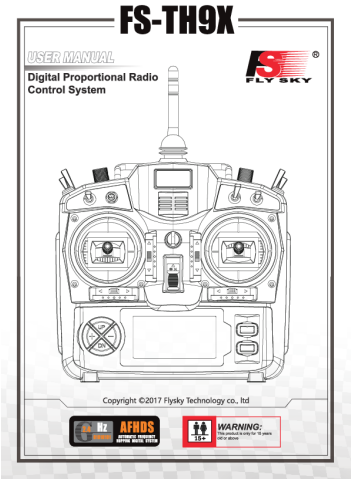
FS TH9X OK instrukcja rchubiq eu pobieranie flysky

90 NOT 90 POWER SWITCH BAT Ch9 FS-RH9X Ch8 Ch7 Ch6 RECEIVER Ch5 Ch4 Ch3 Ch2 Ch1 41 ...

lang:i-klingon score:18 filesize: 42.32 M page_count: 55 document date: 2010-08-21



[pdf] User Manual

Untitled FS TH9X User Manual 20170721 static1 squarespace static 5bc852d6b9144934c40d499c t 5c62387fe2c48311c8948a4a 1549941012543 Squarespace 21 juil 2017 — Make sure to disconnect the receiver power before turning off transmitter Danger Failure do so may lead damage or serious injury danx flysky cn s FlyskyRC |||

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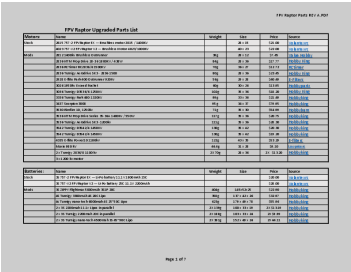

[pdf] Parts List

Paul M FPV Raptor Upgraded Parts List RC Groups 57 x 27 14 $20 64 EBay 40a HobbyKing 40A ESC 4A UBEC 36g 45 30 FrSky DFT D8R II Plus Telemetry Combo Rx Tx for Futaba Hitec WFLY 12 4g 55 REV A rcgroups forums showatt attachmentid 7588743 |||

Motors: Stock Mods Batteries: Stock Mods FPV Raptor Upgraded Parts List Name 2815 757-2 FPVRaptor E ... Mods Name 757-2 FPVRaptor EX -- 2.4G Transmitter Futaba FP7UAP 7 channel with 72 MHZ module FlySky **FS-TH9X**-B 2.4G 9CH TX RX Futaba 10CG 10-Channel FASST 2.4GHz Computer Systems Walkera DEVO 12S 12C...

lang:tl score:16 filesize: 334.5 K page_count: 7 document date: 2015-02-19