

DJI F550 Configuration

DJI F550 Frame

DJI 2212 920KV Motors

DJI OPTO ESCs 30A

WooKong M (50 Waypoint)

All components including GPS and
900 Mhz Data Link

DJI Mini iOSD

WooKong Ground Station Software

Tarot 2D Gimbal

Landing Gear-RC FPV skid undercarriage /Landing gear kits set Fit DJI F550 (not my favorite, but serviceable)

Futaba R6208SB Receiver

Futaba S-Bus Decoder with programming card

Futaba S-Bus Hub

FatSark Predator V2 Goggles, FPV Kit (600TVL camera, TX, Filter)

IBCrazy Blue Beam Whip antennae set.

Video Camera Switch-TVS-2 by ReadymadeRC

Futaba T8FG Radio (14 channel)

GoPro, Tarot 2D Gimbal and Video Switch Wiring

GoPro Hero 3 Black

GoPro is connected via Tarot Mini USB for Video and Battery

Video goes to V2 of Video Switch

Power goes to P + -

T goes to S-Bus Decoder Line #3= Channel 6 (Left Dial)

R goes to S-Bus Decoder Line 2= Channel 9 (Right Dial)

FPV Camera goes to V1 of Video Switch

GoPro Video goes to V2 of Video Switch (Red paint out).

FPV FatShark Video goes to V0 of Video Switch

Flight Control System

Futaba R6208SB Receiver

S-Bus is connected to Futaba S-Bus Hub and from there directly to WooKong MC at X2

X1 is connected to WooKong PMU via 1 of two PMU connectors

PMU Connected to Battery.

PMU connected to GPS and Compass unit via CAN-Bus using CAN-Bus connectors.

LED connected to PMU via CAN-Bus Connector.

WooKong MC connected to CAN-Bus via snap in connector

CAN-Bus connected to 900 Mhz Data Link via CAN-Bus connector.

Futaba Radio Configuration

S-Bus handles Channels 1-5, 7 and 8

Channel 1=	Aileron	J1
Channel 2=	Elevator	J2
Channel 3=	Throttle	J3
Channel 4=	Rudder	J4
Channel 5=	Aux 4	Switch B (Off-PIO-Home)
Channel 6=	VPP	Left Dial (Tarot Gimbal TILT) Using S-Bus Decoder-#1
Channel 7=	Gear	Switch C (GPS, Attitude, Manual)
Channel 8=	Aux 5	Switch F (Fail-safe)
Channel 9=	Aux 1	Right Dial (Tarot Gimbal ROLL) Using S-Bus Decoder-#2
Channel 10=	Aux 2	Switch A (Cam. Switch GoPro, Off, FVP Cam.) Using S-Bus Decoder-#3)

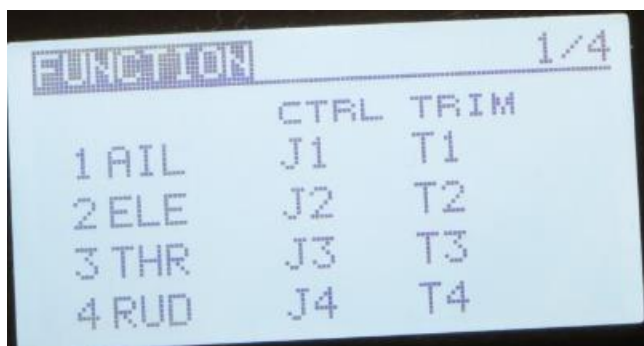
Switch Assignments

SA=	Camera Switch (GoPro, Off, FPV Camera)
SB=	Intelligent Orientation Control (OIC)- (OFF, POI, HOME)
SC=	Flight Mode –(GPS, Attitude, Manual)
SD=	Not Used
SE=	Not Used
SF=	Fail-safe-(OFF, Return to Home)
SF=	Tarot Gimbal Tilt to 30 degrees
SH=	Flight Timer Reset.
LD=	Tarot Gimbal Tilt 0-90 degrees
RD=	Tarot Gimbal Roll adjustment
LS=	Not Used
RS=	Not Used

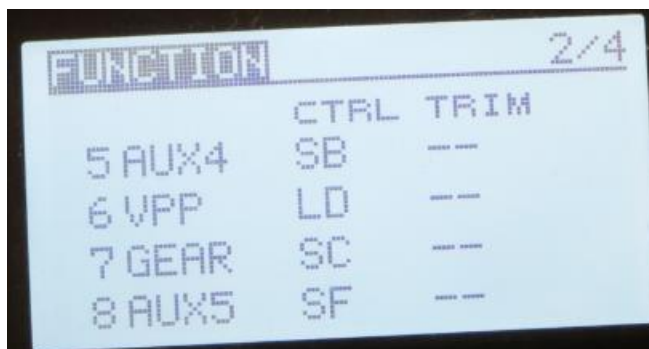
Endpoints, P-Mixes, etc.



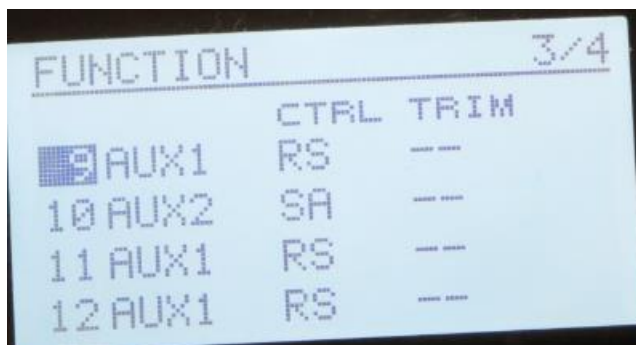
Main Screen



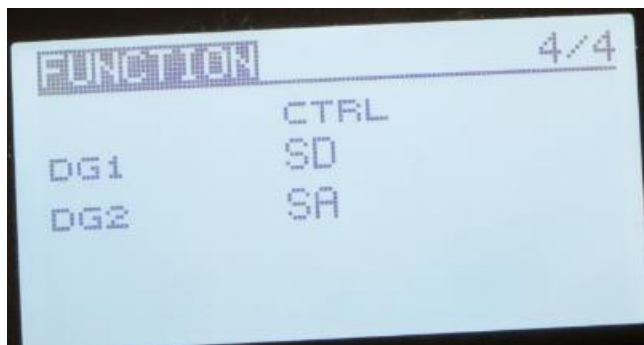
Functions (Page 1)



Function (Page 2)



Function (Page 3)



Function (Page 4)

Program Mixes



1 & 2 are the only ones used



Mix for Fail-safe (Pg 1)




Mix for Fail-safe (Pg 2)



Mix for Gimbal Tilt 30 degrees (Pg 1)

PROG. MIX 2/2

 ACT OFF SG

LINK TRIM

MASTER VPP + ON

SLAVE VPP +

01/24/2014

Mix for Gimbal Tilt 30 degrees (Pg 2)