

# 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)

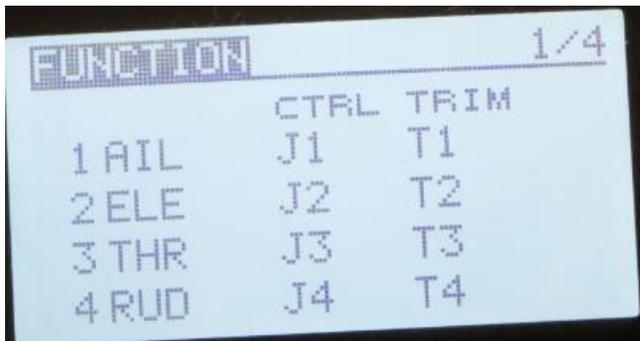
## Switch Assignments

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

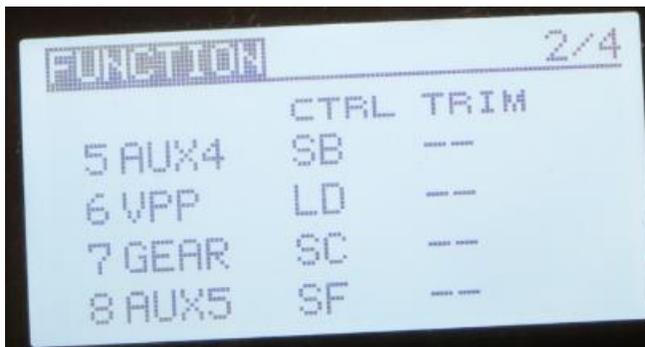
Endpoints, P-Mixes, etc.



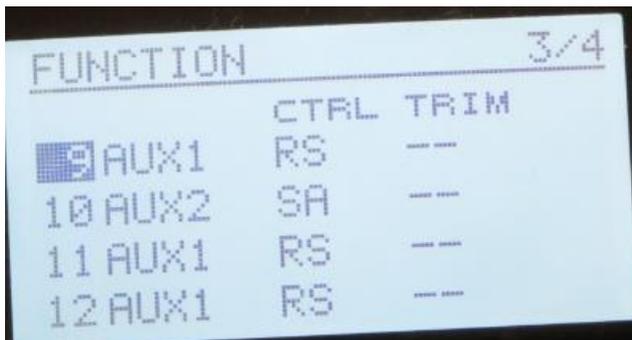
Main Screen



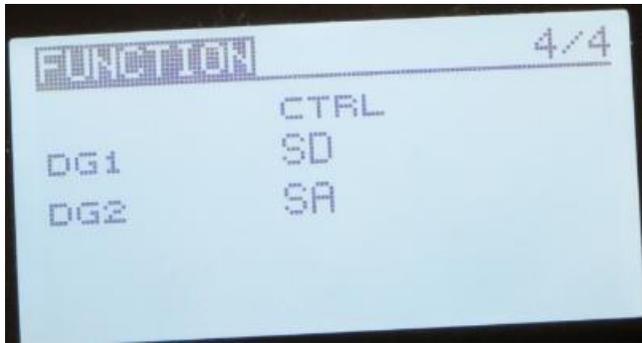
Functions (Page 1)



Function (Page 2)



Function (Page 3)



Function (Page 4)

Program Mixes



1 & 2 are the only ones used



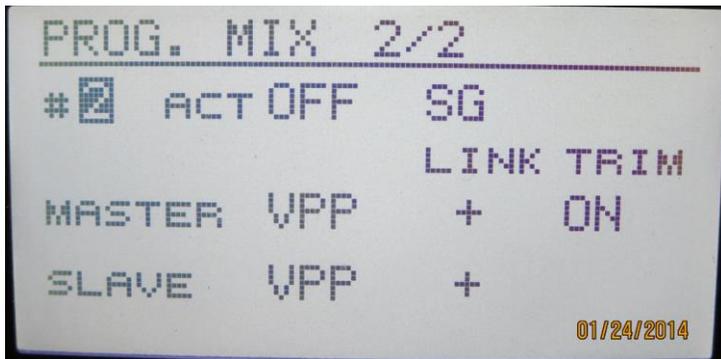
Mix for Fail-safe (Pg 1)



Mix for Fail-safe (Pg 2)



Mix for Gimbal Tilt 30 degrees (Pg 1)



Mix for Gimbal Tilt30 degrees (Pg 2)