

WARNINGS Read this user manual before use.

● The user needs to have relevant professional knowledge while mounting or operating the VTX product, any illegal use may cause potential danger. Please ensure that you have the skills of operating radio equipments, or operate under the guidance of a professional. Read this manual carefully before you use. For those who ignore the following statement or violate the operating regulations, the user assumes the responsibility for any personal injury and property damage.

• Do not operate product unless user has appropriate skills and/or licence(s) necessary to operate this radio equipment legally; or user is under the guidance of a professional. Be sure to follow all local and government radio regulations. HAM Radio Licensing is required to operate on some frequencies/power leveis.

Be sure operator is in compliance with all local and governmental laws/regulations regarding drones

Output

Description: and radio use. It is strictly forbidden to fly in no fly zones such as airports, military facilities and over crowds, etc.

Before powering up, the user shall ensure the antenna and all other components have been installed properly.VTX will generate a lot of heat under norm?' operating conditions. To prevent overheating, provide constant airflow and a well ventilated envirenment. To prevent burns, do not touch VTX when in use. Give product enough time to cool completely before handling.

●Do not disassemble, repair or modify this product to avoid potentially damaging the VTX. Contact your local dealer for any technical support.

- LOCK-ON TECH eliminates frequency drift. • All channel power calibration.
- No frequency sweep. ●7-36V (65 lipo) HV input with dual power filter.
- Sturdy aluminum case. Built-in high quality AGC microphone.

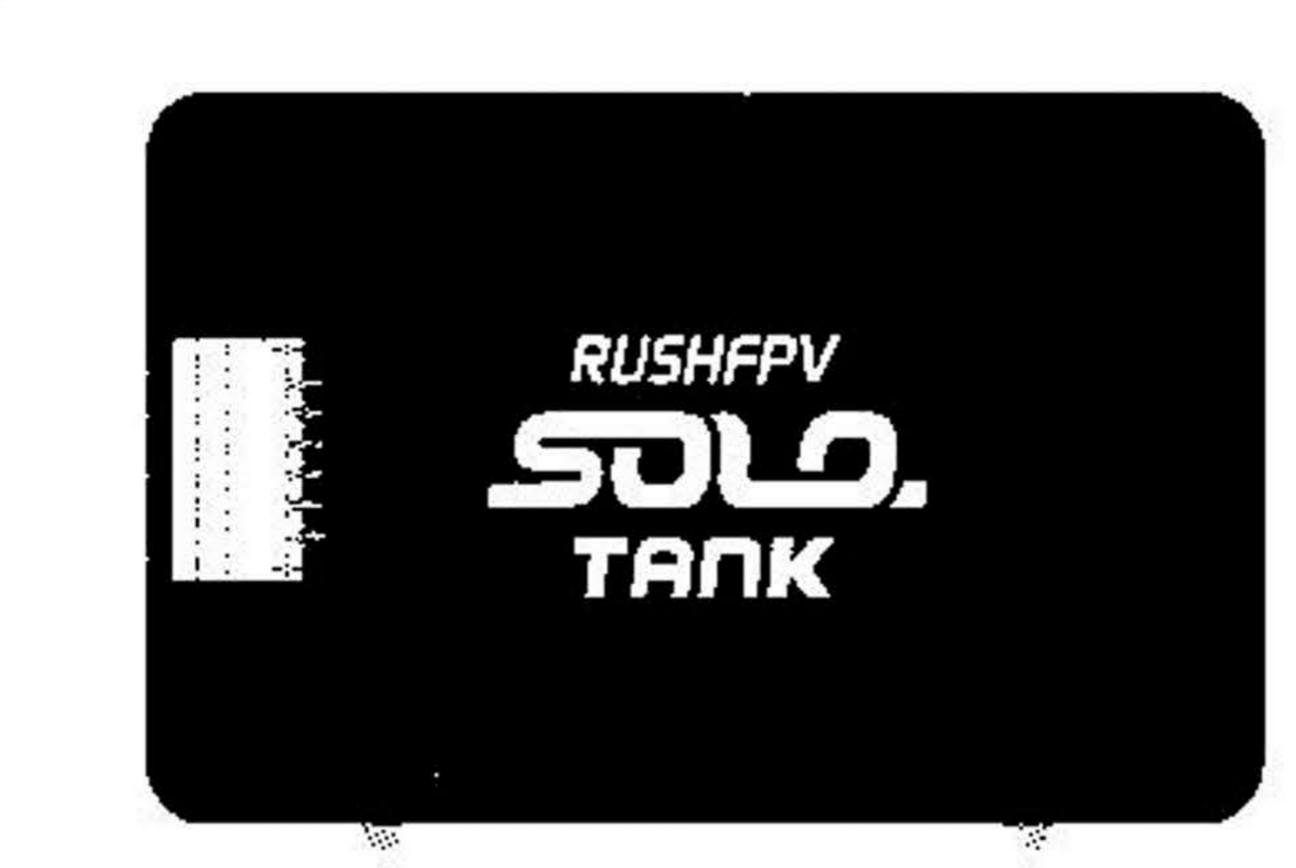
POWER LEVEL: PIT-25mW-400mW-800mW-N	AX* CHANNEL: 48CH/37CH((US)
INPUT VOLTAGE: DC 7-36V (6S LIPO)	OUTPUT VOLTAGE: DC 5V (Max 600)	mA)
VIDEO FORMAT CVBS PAL/NTSC	AUDIO: 6.5M MONO WITH AGC	MIC
DIMENSIONS: H 37mm* W 24mm* D 6.7mm	WEIGHT:12g (WITHOUT CAE	3LE)
EXTERNAL CONTROL: SMARTAUDIO V2.1	(TBS authorized commerc	cial)

*MAX Power level can provide 1W(30dbm) or more power depending on the environment's ability to dissipate

heat.

Feature





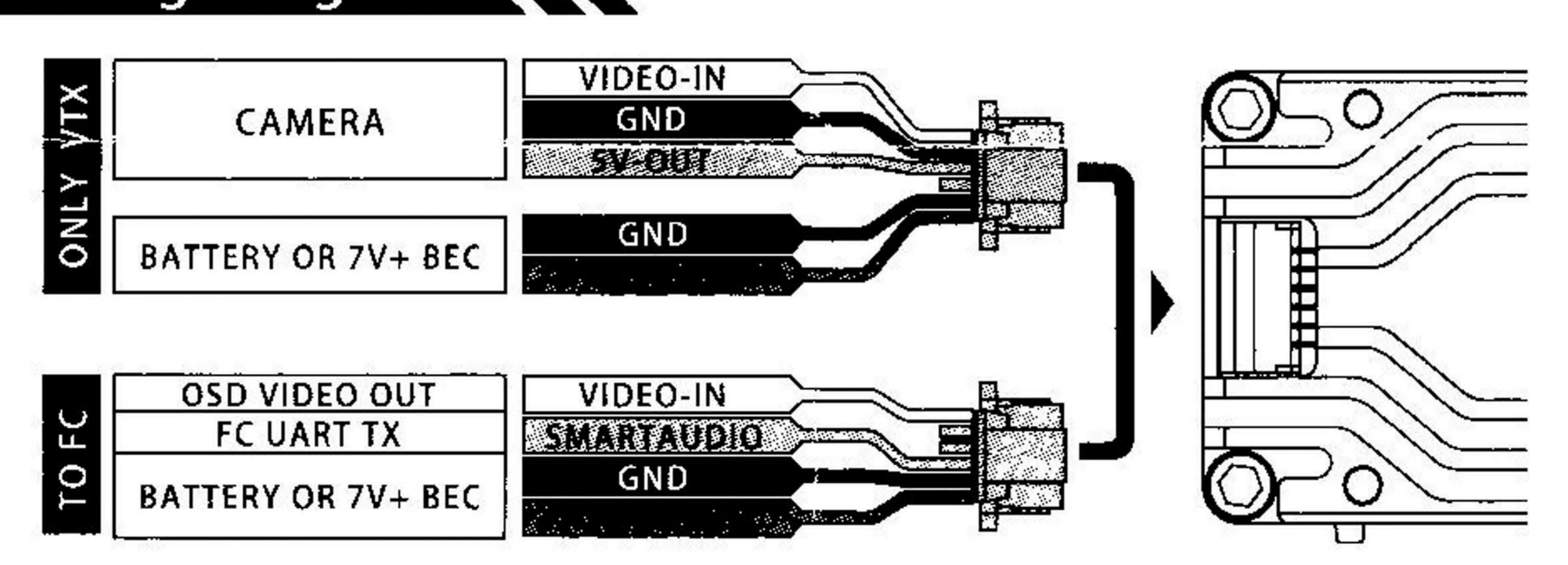


FREQUENCY BUTTON / LED

POWER BUTTON / LED

Press FREQUENCY BUTTON to set channel, press and hold to set band. Press POWER BUTTON to set power level.press and hold to ON/OFF pitmode.

Wiring Diagram



CAUTION

Install antenna before use.

- To prevent overheating, provide constant airflow and a well ventilated
- environment. Install a cooling fan if operating in confined conditions. The 5V OUTPUT is for a Camera/Cooling Fan use only!
- Do not connect Power Input/Battery to 5V Out. Serious damage will occur to VTX.

POWER/FREQUENCY DISPLAY

CAUTION: The selection in equire a HAM License to operate legally. are ONLY available by special request. (The US version does NOT include these channels.)

FREQUENCY TABLE

CH	BANDA	BANDB	BANDE	BANDF	RACEBAND	LOWRACE
1	5865	5733		5740		5362
2	5845	5752		5760		5399
3	5825	5771		5780		5436
4	5805	5790	5645	5800	5769	5473
5	5785	5809		5820	5806	5510
6	5765	5828		5840	5843	5547
7	5745	5847	5925	5860		5584
8		5866	5945	5880		5621

The chosen channel and band will be displayed in sequence. The number of flashes in red will indicate the channel and blue will flash for the band.

POWER LEVEL

LED COLOR	GREEN	YE	LLOW	RED	PURPLE
POWER	25mW				

PIT MODE = flashing Power LED

EXIT PIT MODE = press and HOLD Power Button to use selected Power Level. Overheated = Power LED Flashing Quickly, transmitted power will automatically slowly decrease.When VTX cool, VTX will resume original power settings & Power LED will STOP Blinking.

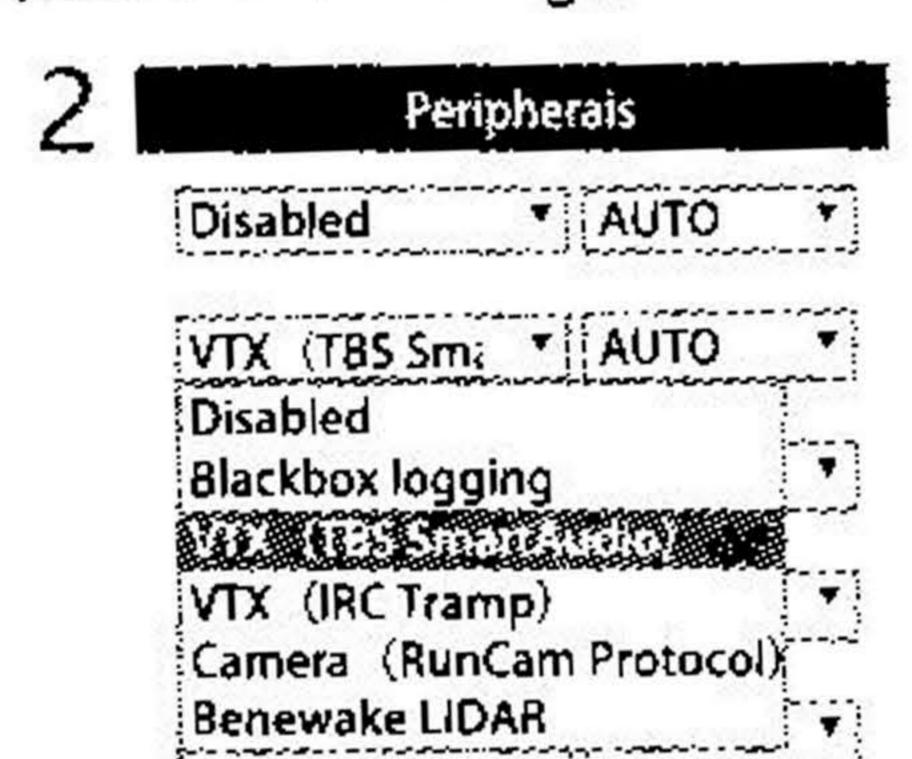
SMARTAUDIO

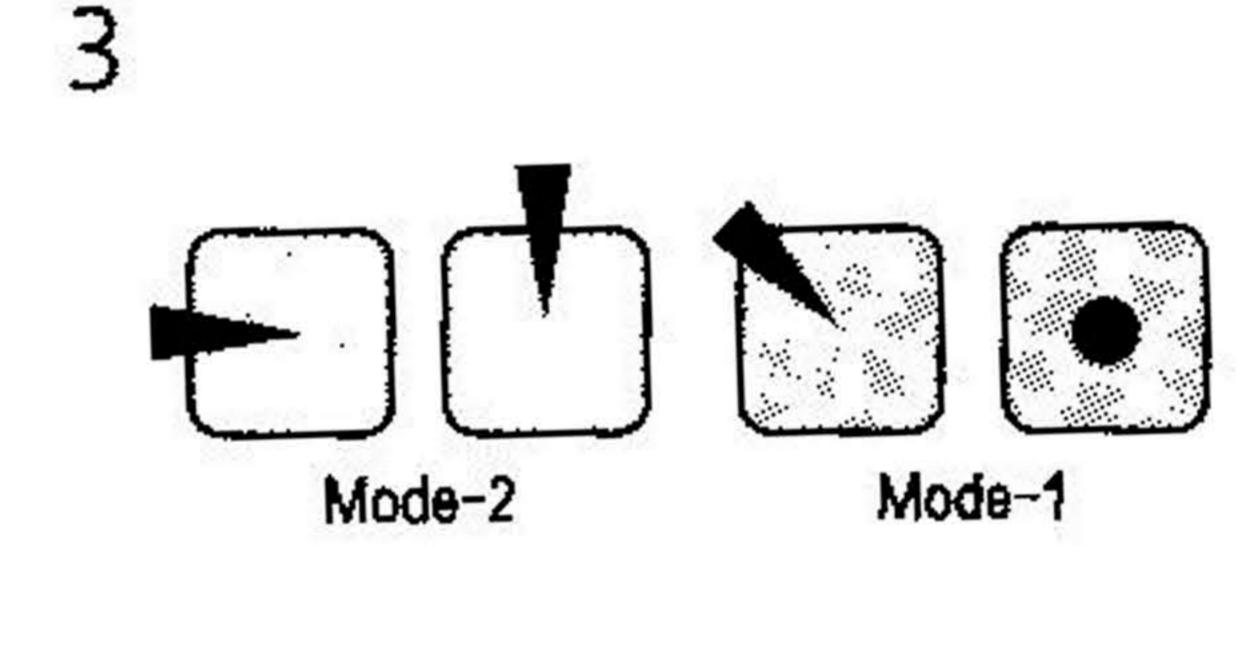
RUSH TANK has built-in SmartAudio Control Protocol. After the VTX is connected to the FC or CRSF, the VTX parameters can be quickly set via the OSD or radio control.

1 Connect the smartaudio port to the Flight Controller Free UART-TX.



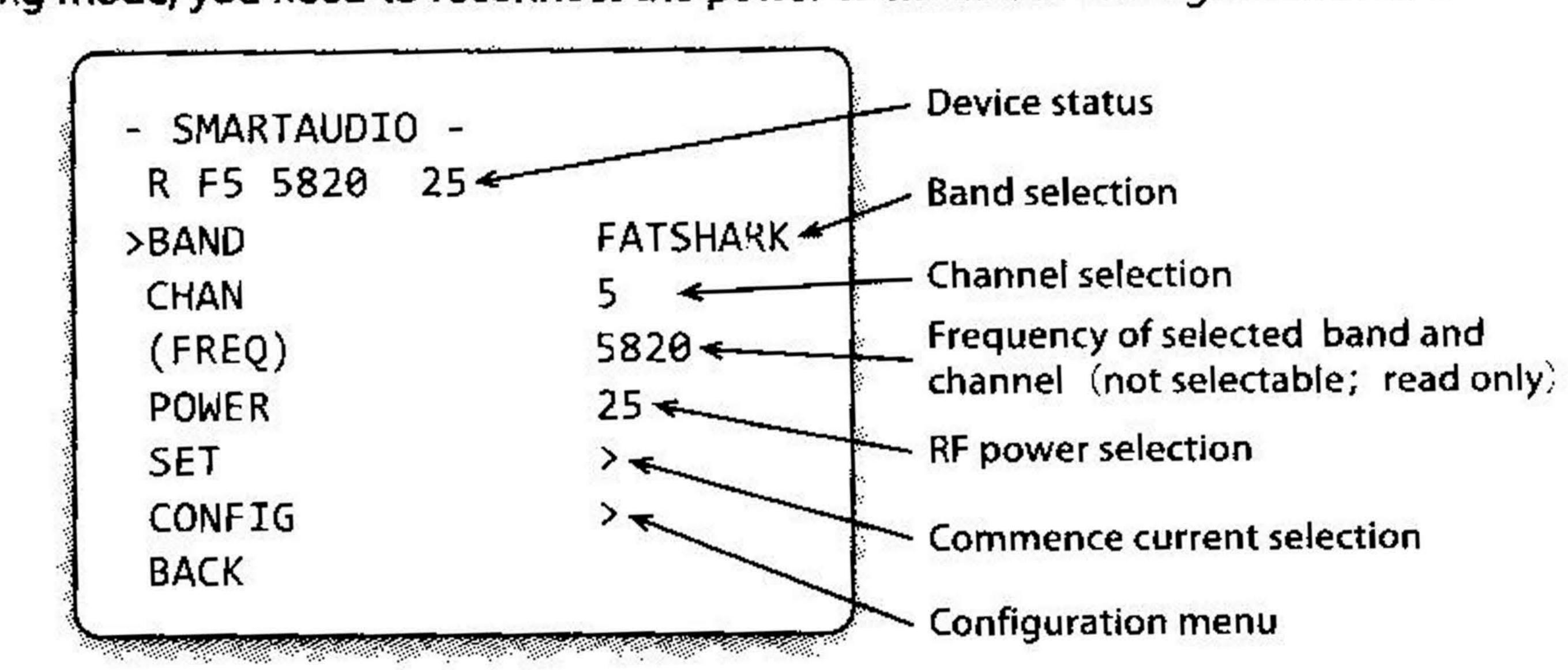
2.Open BetaFlight configurator, Goto the Ports tab, Under perlpherals next to the UART which is connected to the RX pad of the VTX select TBS SmartAudio (Speed can be left at <auto>). Save the settings.





3.Turn on the radio control, THR middle, YAW left ,PITCH up ,Enter the OSD menu. 4.In the Function> VTX SA menu, set the VTX working state.

in the CONFIG menu, when set to RACE mode, VTX will automatically enter PIT mode after booting, set to FREE mode, VTX will normally transmit after booting. After switching the working mode, you need to reconnect the power to make the settings take effect.



SmartAudio VTX top menu (Band/Channel mode)

For more information please visit: https://github.com/betaflight/betaflight/wiki/Unify-Smartaudio