

RAMS FPV Etiquette & Procedures

🚩 **Scope** - With FPV flight growing ever more popular in most all forms of RC flight, there will also have to be standards for its use at the overall RAMS facility. Until digital transmitters are the norm as opposed to analog, care will have to be taken when powering up any FPV capable aircraft of any type.

For those new to FPV here are some basic rules concerning FPV etiquette.

1. All Pilots must be an AMA member in good standing.
2. Always power up googles first, before power is supplied to anything else (VTX etc.) in order to make sure there is no interference with other pilots chosen frequency.
3. Call Out you are powering up so anyone using FPV in your area can be ready for any sudden unforeseen interference.
4. When powering up for flight, be ready to get your craft airborne quickly. Close proximity of any powered up VTX to any receiver on the flight line can possibly cause an issue regardless of which frequency you use.
5. Power down your craft immediately upon landing, preferably when you walk out to get it rather than first bringing it back to the flight line (see number 3 above).
6. As with any FPV usage, best practice is to have your respective craft already on the desired frequency and power output before arriving. If flying with friends, try to coordinate ahead of time. This reduces the confusion and possible frustrations.

Frequency plan to follow at RAMS Club Fields.

- I. Since quads almost exclusively use FPV and in the 5.8ghz range, the quad park will get to use the bulk of the frequencies in this range. The FPV community have generally settled on groups of frequencies that generally can be flown together with minimal or no interference.
- II. One of these frequency groups is labeled "Race Band" (also known as RB or simply R). There are 8 frequencies in this group.
- III. For the Quad Park we will begin by trying R1-R5 exclusively (alternative freqs for non-RB VTX will be listed in a published and posted chart however these non-RB options are limited). As for power output, only 25mw for any VTX at any time is allowed in the Quad Park.
- IV. Cross over flying. If you want to fly your quad in the fixed wing area, you must switch over to use R6-R8 (or equivalent freqs) and abide by the fixed wing flight area guidelines.
- V. R6-R8 will be reserved for fixed wing operations. Since fixed wing tend to generally fly farther out, we will ask that pilots restrict VTX power to 200mw max. As always, please try the least amount of output first and if you find you can do with less power output, the better. We have found at the fixed wing field that in some instances even fixed wing can do with only a 25mw for VTX output.
- VI. Remember, good VTX antennas/placement and power filters will do far more for your reception than raw power output.
- VII. Other FPV frequencies such as 400mhz, 900mhz, 1.3ghz are also welcome and will be used in the fixed wing envelope of flight.
- VIII. FPV 1.3ghz have also been used on some quads as well as fixed wing. As we go forward, we will periodically address this frequency as to where which channels can be used based on the number of pilots who use this frequency and on what craft.
- IX. The FPV 2.4ghz VTX frequencies WILL NOT be used anywhere at the RAMS facility.
Any use of 2.4ghz for VTX frequencies may lead to immediate suspension of flying privileges.

5.8 FPV FREQUENCY USE AT RAMS FIELD

FREQUENCIES AND THEIR BAND EQUIVALENTS ARE LISTED BELOW
 NOTE: THERE ARE 5 FOR THE QUAD FIELD - 3 FOR THE MAIN RUNWAY AREA
 NOTE: THIS IS FOR 5.8GHZ ANALOG VTX TRANSMITTERS

	FOR QUAD FIELD USE ONLY 25mw MAX OUTPUT					FOR MAIN RUNWAY AREA ONLY USE THESE REGARDLESS OF CRAFT TYPE WHILE IN THIS AREA - 200mw MAX OUTPUT		
CHANNEL BAND-R (C)	R1	R2	R3	R4	R5	R6	R7	R8
RACE BAND	5658	5695	5732	5769	5806	5843	5880	5917
CHANNEL BAND-F					F4	F6	F8	
FAT SHARK					5800	5840	5880	
CHANNEL BAND-A				A6	A5	A2		
TBS RANGE VIDEO				5765	5805	5845		
CHANNEL BAND-B			B1		B5	B7		
FLYCAM			5733		5809	5847		
CHANNEL BAND-E							E5	
FOXTECH							5885	
TAGS CORRESPOND TO BAND/CHANNELS LISTED VERTICALLY ABOVE THEM	↑	↑	↑	↑	↑	↑	↑	↑

DO NOT POWER UP YOUR VTX TRANSMITTER IN THE PITS UNLESS YOU HAVE THE TAG FOR YOUR FREQUENCY
VERIFY NO OTHER FPV FLIGHTS ARE IN PROGRESS WHEN CHANGING CHANNELS