

FAT SHARK

RC VISION SYSTEMS



PREDATOR V2 (FULL RTF FPV KIT) SPECIFICATION DOCUMENT REV B

Headset Specifications:

Optics:

FOV (field of view): 25 degrees diagonal
Interpupillary (IPD) distance: 63.5mm (fixed)
Optional diopter lens inserts: -2, -4, -6 dpt
Image size: 38" @ 7'

Audio:

Stereo

User Controls:

Channel selection
Volume control
Mode selection (wired/wireless)
Contrast/ brightness control

Electrical:

Power supply: 7 - 13 V (2S/3S supply)
Power consumption (@7.4V nominal):
300mA wireless mode
160mA direct mode (no RX)

Antennae:

External dipole (RX is circular polarized compatible)

Mechanical:

Ergonomic molded headset w/ adjustable headband
Secured rubber eye cups for ambient light reduction
Weight: 150g

Display

Full color Kopin CyberDisplay
922,000 pixels binocular display (640 X 480 VGA)
NTCS/PAL auto selecting

Head Tracker

None (available for OEM orders)

Battery:

7.4V 1000mAh
Balance lead and discharge adapter for charging via RC chargers

Interface

3.5mm AV in/out port
Power in port
3.5mm 3p earphone port
PS/2 DIN additional power port

Operating Frequencies:

5.8 Ghz Module	5740MHz, 5760Mhz, 5780MHz, 5800Mhz, 5820MHz, 5840Mhz, 5860Mhz
----------------	---

Note: Fat Shark headsets use NexWave brand RF modules.
Compatibility is only guaranteed with Fat Shark and
ImmersionRC transmitters.



FAT SHARK

RC VISION SYSTEMS



Camera Specifications:

Electrical:

Power supply: 3.5-5V (powered off TX)
Power consumption: 60mA @5V

Imager:

1/3" CMOS
FPV tuned light handling
NTSC or PAL (selectable; jumper on = NTSC).

Lens:

2.8mm IR coated
100° diagonal FOV (ideal for fixed camera)

Mechanical:

Square: 21 X 21 X 12mm
Lens extrude: 15mm X 14mm diameter
Weight: 15g



Transmitter Specification (250mW 5G8 V3):

Electrical:

Power supply: 7 - 16V (2S-4S supply)
Power consumption 310mA @7.4V
Transmitting power: 250mW
Frequency: 5G8 (see above frequency chart)

Antennae:

External dipole (circular polarized compatible)

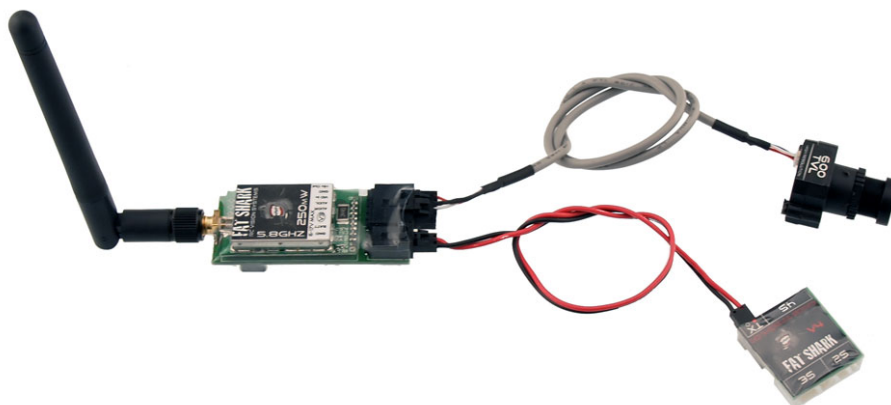
Mechanical:

55 X 26 X 11 mm
Weight: 22g (with antenna).



Combined onboard FPV components (TX, camera, filtered power adapter):

Power supply: 7 - 16V (2S-4S supply)
Power consumption 390mA @7.4V
Powered via battery balance lead
Total weight: 42g (with antenna).



Package dimensions: 22 X 17 X 6.5 cm (approximately 0.6 kg)