

FAT SHARK

RC VISION SYSTEMS



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

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



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Camera Specifications:

Electrical:

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

Imager:

1/4" CMOS
Extreme low light capacity
Available as NTSC or PAL (specify).

Lens:

2.5mm 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 Specifications:

Electrical:

Power supply: 7 - 13 V (2S/3S supply)
Power consumption 310mA @7.4V
Transmitting power: 250mW
Frequency: 5G8 (see above frequency chart)

Antennae:

External dipole (circular polarized compatible)

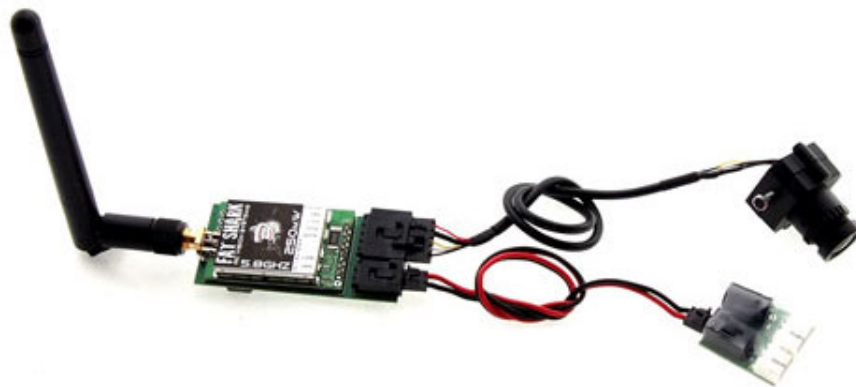
Mechanical:

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



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

Power supply: 7 - 13 V (2S/3S 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)