

# FAT SHARK

## RC VISION SYSTEMS



### PREDATOR V2CE (FULL RTF FPV KIT CE CERTIFIED) SPEC DOC REV E

#### 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 circular polarized ~2.15 dBi

##### 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 (7.4Wh)  
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: 75mA @5V

#### Imager:

1/3" CMOS 600TVL  
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 Specifications:

#### Electrical:

Power supply: 7 - 25V  
Power consumption 150mA @7.4V  
Transmitting power: 25mW  
Frequency: 5G8 (see above frequency chart)

#### Antennae:

Fixed 2.15dBi circular polarized

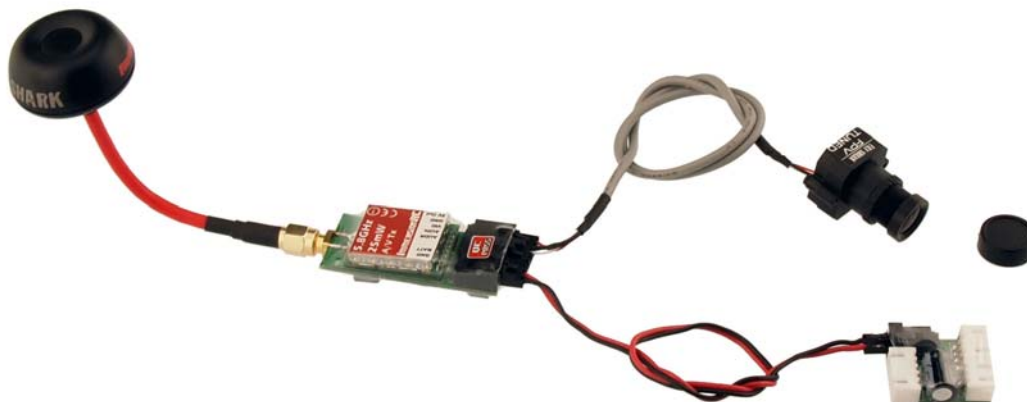
#### Mechanical:

50 X 23 X 12 mm  
Weight: 25g (with antenna).



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

Power supply: 7 - 25V  
Power consumption 225mA @7.4V  
Powered via battery balance lead  
Total weight: 47g (with antenna, wires).



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