

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)