

FAT SHARK

RC VISION SYSTEMS



TELEPORTER V3 RTF FPV KIT WITH HD CAMERA SPEC DOC REV A

Headset Specifications:

Optics:

FOV (field of view): 24 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
 Zoom mode (in/out to crop HD black bars)

Electrical:

Power supply: 7 - 13 V (2S/3S supply)
 Power consumption (@7.4V nominal):
 300mA wireless mode
 160mA direct mode (receiver off)

Antennae:

External 3dBi linear dipole

Mechanical:

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

Display

Full color Kopin CyberDisplay
 230,000 pixels binocular display (320 X 240 QVGA)
 NTCS/PAL auto selecting

Head Tracker

None (available for OEM orders)

Battery:

7.4V 760mAh (7.4Wh)
 Balance lead and discharge lead for charging via RC chargers

Interface

3.5mm AV in/out port
 Power in port
 3.5mm 3p earphone port
 PS/2 MIN 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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HD Camera Specifications:

Power supply: 5V (powered off TX)
Power: 200mA @5V
Imager: 1/2.5" 5M pixel digital CMOS
AV out: NTSC (16:9)
Record: 720p (1280x720), 30 fps, 15Mbps
File type: AVI file (MJPEG compression)
Card type: MicroSD (support to 32Gb card)
FOV: 100° diagonal (ideal for fixed camera)
Dimensions: 28 W X 26 H X 23 L mm
Weight: 25g



Transmitter Specifications (250mW 5G8 V3):

Electrical:
Power supply: 7 - 16V (2S-4S supply)
Power consumption 330mA @7.4V
Transmitting power: 250mW
Frequency: 5G8 (see above frequency chart)

Antennae:
3dBi linear dipole

Mechanical:
55 X 26 X 12 mm
Weight: 23g (with antenna).



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

Power supply: 7 - 16V (2S-4S)
Power consumption 580mA @7.4V
Powered via battery balance lead
Total weight: 56g (with antenna).



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