

FAT SHARK

RC VISION SYSTEMS



Fat Shark Design Document

Model Number: FSV1063
Model Name: Dominator V3 (WVGA)
Certifications: FCC/CE
Document Revision/Date: Rev B, 9/10/2015

Product Description:

The Dominator V3 FPV goggle features an immersive 16:9 widescreen display for compatibility with HD content and HD digital video links. It supports side/side 3D content in (both analog and HDMI) and is NTSC/PAL auto switching. Integrated DVR records your analog footage and has playback function that may assist in lost model recovery. If the power is disconnected or the battery runs flat, the DVR will auto-save any recorded video, preventing a corrupted card or loss of data. .

Specifications:

Optics:

FOV (field of view): 30° diagonal (the same plastic optics as DOMV2)
Interpupillary Distance (IPD): 59 to 69 mm (adjustable)
Optional Diopter Lens Inserts: -2, -4, -6 dpt

Display:

800 x 480 WVGA LCD
Polarized LED backlight
NTCS/PAL auto selecting
Side/Side 3D
Input HDMI 16:9
Video 4:3 horizontally stretched
(Current A/C chip only supports to 720p 50/60 Hz, could be upgraded to 1080p in the future)

Audio:

Stereo

User Controls:

Channel Selection
Volume Control
Mode Selection (Wired/Wireless)
Display Control
DVR Control
HT Control

Electrical:

Power Supply: 7 - 13 V (2S/3S supply)
Power Consumption: 390mA wireless/ 230mA direct mode (no RX)
(@7.4V nominal)
Driver Board: Using the same as HD's, support Side/Side 3D
RF Modules: Infinite channel support on multiple bands
Head Tracker: Modular (sold separately)
Analog DVR: MicroSD support to 32Gb
Record Rate: 6Mbps (MJPG compression, 30 fps, AVI)
File playback (native recording, no codec support)
Upgradeable via SD card
PAL/NTSC continuous scan auto detect/mode change
Auto save if power removed
DVR stay off when not switched on

Interface:

3.5mm AV in/out port
Power in port
3.5mm 3p earphone port
MiniDIN4 data port (head tracking)
MicroSD insert slot
RF module port
MiniHDMI port

Mechanical:

Ergonomic molded headset w/ adjustable headband
Dimensions: 169.2 x 80 x 45.5 mm
Weight: 152 g

Package size: 0.7kg, 22*14*9cm