Analog Video System For FPV & UAV

Analog Video
- Visualize instrumental F16
- Exclusive XLRS instruments
- Interprets Mavlink data
- Configurable Pages
- Frequency 2.4Ghz
- RF Power up to 1W
- 8 Video Channels

Long Range Video up to 100Km
(Depending on configurations)

Airborne System, Vehicles:
- DRONES, UAV, MULTIROTORS, RPAS, VANT, UAV,
- AIRCRAFT, HELICOPTERS, UUV, UGV, ROV, USV, ASV,
- CARS, BOATS, ROBOTS...

Real Time Video
- RX Diversity 2.4Ghz
- TX 5.8Ghz
Analog Video Receiver

Video diversity Receiver + Video Transmitter
RX 2.4Ghz / TX 5.8Ghz / 10mW

Ideal for FPV & UAV flights!
Analog Receiver of 8CH to 2.4Ghz with dual receiver in diversity mode with Transmitter of 5.8Ghz for use in wireless mode to connect with one or several video glasses with 5.8Ghz receiver or with video monitor.

FEATURES:
- 2 Video Receiver 2.4Ghz.
- 1 Video Transmitter 5.8Ghz, 10mW.
- 1 Bluetooth.
- 1 Display OLED viewing configured parameters.
- 1 Encoder with push button.
- 1 RCBUS: RX serial communication.
- 2 Output Audio/Video (Minijack 3.5mm).
- 1 USB (Micro-B).
- 1 Switch ON / OFF.
- 1 Red Led: Power RX1 (2.4Ghz).
- 1 Red Led: Power RX2 (2.4Ghz).
- 1 Red Led: Power TX1 (5.8Ghz).
- 1 Blue Led: Power Bluetooth.
- 2 RX connector antenna (2.4Ghz): SMA Female.
- 1 TX connector antenna (5.8Ghz): SMA Female.
- Dimensions: 96 x 90 x 41mm.
- Weight: 312g.
- Box: Aluminum, plastic and methacrylate with 4 holes for support.

Connectivity: USB, BLUETOOTH, RCBus.
Compatible: ALPHA Commands and DMD devices.

SPECIFICATION VIDEO RECEIVER:
- Diversity.
- Sensitivity: -94 dBm.
- Frequency: 2.4Ghz.
- Channels: 8.
  - Ch1: 2414Mhz | Ch2: 2432Mhz | Ch3: 2450Mhz
  - Ch4: 2468Mhz | Ch5: 2490Mhz | Ch6: 2510Mhz
  - Ch7: 2390Mhz | Ch8: 2370Mhz

SPECIFICATIONS VIDEO TRANSMITTER:
- Band: B
- Frequency: 5.8Ghz
- Potency: 10mW (+10dB)
- Channels: 8.
  - Ch1: 5733Mhz | Ch2: 5752Mhz | Ch3: 5771Mhz
  - Ch4: 5790Mhz | Ch5: 5809Mhz | Ch6: 5828Mhz
  - Ch7: 5847Mhz | Ch8: 5866Mhz

INTERNAL BATTERY:
- Voltage: 3.7V. 4.2V Full load.
- Capacity: 4800mAh or 5000mAh.
- Cells: 4 cells in parallel 3.7V/1.2Ah or 1 cell 3.7V/5Ah.
- Type: Lithium polymer.
- Duration: 10h.
- Fuse: 2A (With 4800mAh battery).
- Switch ON/OFF (With 4800mAh battery).
- Battery Charge: 1A, USB (Micro-B).

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RXVID3 Connections

1.0- Red Led Power 5.8Ghz Video TX 1.
1.1- Red Led Power 2.4Ghz Video RX 2.
1.2- Blue Led Power Bluetooth.
1.3- Red Led Power 2.4Ghz Video RX 1.
1.4- Switch ON/OFF, Power RXVID3.
1.5- Encoder with push button for change parameters.
1.6- Display OLED to see parameters.

1.7- 2 Jack 3.5 connectors, output Audio/Video.
1.8- Jack 3.5 connector, RCBus serial communication with XLRS devices.
1.9- USB (Micro-B) for configure and charge battery.
2.0- Red/Green led charger status battery.

2.1- SMA-Female Connector RX1 (2.4Ghz).
2.2- SMA-Female Connector RX2 (2.4Ghz).
2.3- SMA-Female Connector TX1 (5.8Ghz).

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Analog Video Transmitter

On Screen Display + Video Transmitter
2.4Ghz / 1000mW / 4Ch RC / 1 Port MAVLINK Telemetry / 2 INP Camera

Total immersion in flight!
On the video monitor, you can see all instruments of a aircraft:
- Flight data, Alarms, Battery Status,
- Flight modes, Altitude and above all the XLRS and Mavlink telemetry.

FEATURES

4 RC Channels. (Only works with RX XLRS).
2 RCBUS: RX or 2nd XOSD serial communication.
2 Input Cameras: Video PAL, selection (5V or 12V).
   The video cameras can be powered from 3V to 20V.
1 Input for Mavlink Telemetry.
1 Microphone.
1 Thermostat with Fan.
1 Selector Camera.
1 Red Led: Synchronism.
1 Blue Led: Camera 1.
1 Blue Led: Camera 2.
1 Connector Antenna: MMCX Female.

Control XOSD functions from XLRS Transmitters:

Connect XOSD throught RCBus port to RX XLRS
and in flight from the TX XLRS you can change
some parameters of XOSD:
Change page, TX video channel, select camera,
brightness level, pixel level, volume.

Prepared for redundancy and control of 4 cameras:
You can use 2 XOSD connected through RCBus,
control 4 video cameras and display
two simultaneously.

-compatible with:
RC RX: RMD1, RXD2, RXD3, RXLRS.
Video RX: RXVID, RXVID2, RXVID3.
Autopilots: The telemetry port only works
with autopilots that use Mavlink protocol.

TECHNICAL SPECIFICATIONS XOSD3:

Pages: 3 selectable and configurable.
Character sizes: 3. 64x32 | 41x32 | 31x32.
Configurable Alarms: Yes.
Units of measure: Metric or Imperial.
Power Instruments: Batteries, Voltage, RPM, etc.
Flight Instruments: GPS, Flight Time, etc.
Navigation Instruments: Distance, Course, etc.
XLRS Instruments: RSSI, Noise Level, etc.

Objects configurable from DMDStudio,
configure the pages to your liking.

SPECIFICATIONS VIDEO TRANSMITTER:

Frequency: 2.4Ghz.
Potency: 1000mW (+30dB).
Potency (Opt.): 100mW (+20dB with att. 10dB).
Channels: 8.
Ch1: 2414Mhz | Ch2: 2432Mhz | Ch3: 2450Mhz
Ch4: 2468Mhz | Ch5: 2490Mhz | Ch6: 2510Mhz
Ch7: 2390Mhz | Ch8: 2370Mhz
Voltage: 5V. Min 4.5V. Max 6Vcc.
Consumption: Standby 50mA.
   Max. 750mA.
Working Temperature: 10°C ~ +85°C (CPU).
Ambient Temperature: -10°C to +50°C.
Connectivity: RC, RCBus.

Compatible: ALPHA Commands and DMD devices.

Dimensions: 82,25 x 26,85mm x 33,25mm.
Weight: 58g.
Box: Plastic and fiber base 2mm.

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1.0 - RC Channels: 4 Multifunction outputs for RC servos. CH12, CH13, CH14 and CH16.
1.1- Input telemetry for Mavlink Protocol.
1.2- RCBUS: Serial communication RX XLRS or others XLRS devices.
1.3- Camera voltage selector. Jumper for 5V.
1.4- Camera input 1 and 2. (0V, Vcc, PAL).
1.5- Led Power Camera 1.
1.6- Led Power Camera 2.
1.7- Led Detector Synchronism.
1.8- Connector Antenna: MMCX-Female for Video.
1.9- Micro Fan.

CH1 corresponds to CH12 or servo 12 of the receiver.
CH2 corresponds to CH13 or servo 13 of the receiver.
CH3 corresponds to CH14 or servo 14 of the receiver.
CH4 it is used as data input (TELEM2) Mavlink of autopilots like: Pixhawk, APM, etc. 38400b by default.
CH5 corresponds to CH16 or servo 16 of the receiver.
The channel of the Servo 15 is used to control the OSD.

*Some product features are optional.
XVID3 Manual:
Manual RXVID3.
First steps (Quick guide).
XLRS connection diagrams.

DMDStudio Manual.

• Learn more about:
  Control from XLRS Transmitters or PC and servos in XOSD.
  Connection and configuration XLRS system (RX and XOSD) with Pixhawk and Mission Planner.
  Configuration control XOSD commands from XLRS transmitters.
  Servo configuration XOSD.