

New Version 2021

To work from 15-40Km Range max. 100Km



Analog Video

Visualize instrumental F16
Exlusive XLRS instruments
Interprets Mavlink data
Configurable Pages
Frequencies 1.2Ghz,
2.4Ghz or 5.8Ghz
Single or Dual Band
RF Power up to 1W



Vehicles

DRONES, UAV, MULTIROTORS, RPAS, VANT, UAV, AIRCRAFT, HELICOPTERS, UUV, UGV, ROV, USV, ASV, CARS, BOATS, ROBOTS...



8 Video Channels

15/Jul/2021



FPV Analog Video System



Professional analog video system prepared for all types of FPV applications with 1000mW RF Power in 1.2Ghz, 2.4Ghz or 5.8Ghz to work between 15-40Km (LOS) and with a maximum range of 100km or more depending configuration and antennas.

Version 2

As a novelty in the RXVID3 V2 video receiver, now the video receiver modules for diversity mode can work individually, which means that a single frequency can be used in the two RX modules or each module in a different frequency to have a redundant system and working in diversity mode, with which the system will automatically select the RX with the highest signal.

A new screen a little bigger than the previous one and with color to clearly show each data of the video system, (Video signal level, Video channel RX1, Video channel RX2, Video channel TX1, battery level, alarms...).

Optional tripod with its carrying case ready to quickly mount video system.





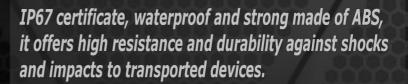


The video receiver and antennas come with a robust suicase to transport the entire video system safely and easily.

As the RXVID3V2 is integrated in the directional antenna, it is ready to use and if you use the TRI270 tripod, the installations is very simple you will not need adaptations, just install the antenna with knobs, connect the antennas and turn on the RXVID3V2.







Thanks to the adaptable foam of EPP, that is a high resilience material that helps absorb pressure and vibrations, the products is fully protected and motionless.

It has an extendable handle for facilitate transport.





Tripod for antennas with bag



Optionally you can purchase TRI270 tripod with T-Bar which is specifically adapted to place several types of RC and Video antennas quickly, ready to install (Plug & Play).

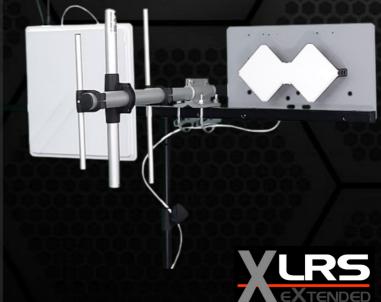
Ready to fast install, without complications, without tools.

Get to the job site, unfold the tripod, position the antennas with the knobs quickly without the use of tools and ready to work.

The complete installation can take about 2-4 minutes.

You don't need to see the assembly manual, the installation of the tripod and antennas is very intuitive.

It is mechanically prepared and with accessories to install antennas as: BQ89, MX433, ANTPLA24G17DB or similar, it can support up to 25Kg of load, it is extensible up to 2.70m, it folds easily and has a transport bag with internal padding to protect against bumps in daily work.



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RXVID3V2

Analog video receiver with two internal individual video receiver modules that work in diversity mode at different frequencies 1.2Ghz, 2.4Ghz or 5.8Ghz with 8 video channels and batery with autonomy of 8-10h.

Depending on the XVID3V2 video system you have selected you can have the two receiver modules working on the same frequency or each receiver module on a different frequency, in this way you can have the RXVID3V2 receiver working on two different frequencies to obtain a redundant system.

Also has a 5.8Ghz short range video transmitter to view the video in wireless mode with one or more video glasses or video FPV monitors with 5.8Ghz receiver, you can get ranges of 25m to 200m or more depending on the antenna.





The RXVID3V2 video receiver can work in different modes: Diversity, Manual RX1 or Manual RX2.

The diversity mode is automatic, the RXVID3V2 has two antenna inputs and internally it will select the receiver module with the best received video signal.





XOSD3B

OSD with analog video transmitter 1.2Ghz, 2.4Ghz or 5.8Ghz / 1W



Video transmitter with 1W (+ 30dBm) of RF power and depending on the device it can work in 1.2Ghz, 2.4Ghz or 5.8Ghz with 8 video channels, can be powered from 8-18V, inputs for 2 video cameras with PAL format, 4 auxiliary RC channels (Control only from XLRS transmitters), 1 input Mavlink for to connect the telemetry of the autopilot and a Female-SMA connector to connect an extender together with the omnidirectional antenna.

Weight: 72g.

Dimensions: 82 x 37 x 39mm approx.

Box: Plastic and fiber base 2mm.

OSD presents graphics, icons and W/B texts on the screen, superposing the objects on the analog video. It is mainly oriented for the visualization of the instruments of an aircraft and flight data on planes, helicopters and radio control systems FPV, UAV, robots, vigilance...

Displaying the data of the XLRS radio link and the instruments using the Mavlink telemetry of the autopilot, flight data, alarms, battery status, video channel, selected camera, OSD brightness, etc.

Interprets Mavlink data packets of Pixhawk, cube autopilot or autopilots compatibles with Mavlink protocol.

Prepared for redundancy and control of 4 cameras

Can use 2 XOSD connected through RCBus, control 4 video cameras and display 2 simultaneously.

Control XOSD functions from XLRS Transmitters

Connect XOSD throught RCBus port to RX XLRS and from the TX XLRS you can change some parameters of XOSD.

Change Page, TX Video Channel, Select Camera, Brightness Level, Volume...





XOSDB-162 Analog Video Transmitter

On Screen Display + Video Transmitter 1.2Ghz / 1000mW / 4Ch RC / 1 Port MAVLINK Telemetry / 2 INP Camera



Format &

Resolution: Analog video (PAL).

625-Lines (576i).

25 Frames per second. 50 Fields per second.

Frequency: 1.2Ghz.

1000mW (+30dB). **Potency:**

Potency (Opt.): 100mW (+20dB with att. 10dB).

Channels:

Ch1: 1080Mhz | **Ch2:** 1120Mhz | **Ch3:** 1160Mhz **Ch4:** 1200Mhz | **Ch5:** 1240Mhz | **Ch6:** 1280Mhz

Ch7: 1320Mhz | Ch8: 1360Mhz

Voltage: 8-18Vcc (Port "PWR")

5V. Min 4.5V. Max 6Vcc (To feed the RC channels)

Consumption: Standby 50mA.

Max. 750mA.

Working

Temperature: $10^{\circ}\text{C} \sim +85^{\circ}\text{C}$ (CPU).

Ambient

-10°C to +50°C. Temperature:

Connectivity: RC, RCBus.

Upgradable &

Configurable: DMDStudio Soft.

To configure, you need an RX XLRS or use a

TTL 3.3V to USB converter.

Dimensions: 82,26 x 37,71mm x 39,52mm.

Weight: 72g.

Plastic and fiber base 2mm. Box:



RC Channels: 4 (Only work with RX XLRS).

RCBUS: 2 (To RX XLRS or 2nd XOSD).

Input

Cameras: 2 (Format: PAL)

(Use same power as the XOSD, it can be 8-18V).

Input Mavlink

1 (Port CH4/MAV). **Telemetry:**

Antenna

Connector: SMA-Female.

Microphone.

Thermostat with Fan.

Red Led: 1, Synchronism.

Blue Leds: 2, CAM1 & CAM2.

Pages: 3, Selectables and configurables.

Character sizes: 3, 64x32 | 41x32 | 31x32.

Configurable

Alarms: Yes.

Units of measure: Metric or Imperials.

Instruments:

POWER: Batteries, Voltage, RPM, etc.

GPS, Flight Time, etc. **NAVEGATION:** Distance, Course, etc. XLRS: RSSI, Noise Level, etc.





Analog Video Receiver

Video Diversity Receiver + Video Transmitter RX 1.2Ghz / TX 5.8Ghz 10mW

SPECIFICATIONS VIDEO RECEIVER:

Video

Receivers: 2, Diversity.

Frequency: 1.2Ghz.

Sensitivity: -95 dBm.

Channels: 8.

Ch7: 1320Mhz | **Ch8:** 1360Mhz

SPECIFICATIONS VIDEO TRANSMITTER:

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: 5000mAh.

Cells: 1 cell 3.7V/5Ah.

Type: Lithium polymer.

Duration: 8-10h.

Battery Charge: 1A, USB (Micro-B).

Protected against over current.

Protected against excess load. Automatic disconnection.

Protected against excessive discharge.

Automatic disconnection.

Sound warning and low battery display.

Automatic shutdown by software in case of very low battery.



FEATURES:

Video Receivers (1.2Ghz): 2.

Video Transmitter (5.8Ghz): 1.

Display Color: 1.

Encoder with push button (Control menu).

RCBUS: Serial Comunication.

Output Audio / Video: 1 (MiniJack 3.5mm).

Switch ON/OFF.

Red Leds:

1, RX1 (1.2Ghz) 1, RX2 (1.2Ghz) 1, TX1 (5.8Ghz)

Connector Antenas: 3, SMA-Female.

Working

Temperature: $10^{\circ}\text{C} \sim +55^{\circ}\text{C}$ (CPU).

Connectivity: RC, RCBus.

Upgradable &

Configurable: DMDStudio Soft.

Dimensions: 98 x 90,5mm x 45mm.

Weight: 330g (Without Antennas).

Box: Plastic, aluminum and methacrylate.



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XVID3V2-1 G2 FPV Analog Video System



- 1- XOSD3B-1G2. OSD + Video Transmitter 1.2Ghz 1000mW.
- 1- RXVID3V2-1G2. Video Diversity Receiver 1.2Ghz + Video Transmitter 5.8Ghz 10mW.
- 1- BQ12. Biguad antenna 1.2Ghz 9dBi.
- 2- ANTGSM12. Omnidirectional Antennas 1.2Ghz 5dBi.
- 1- ANTGSM58. Omnidirectional Antenna 5.8Ghz 5dBi.

- 1- LAT05M_SMAH/SMAM. Cable SMA-Female to SMA-Male, 500mm.
- 1- LAT20MSMAFNM. Cable SMA-Male to Connector N-Male, 200mm.
- 1- CABLE PX4 XOSD. Cable Pixhawk for XOSD.
- 1- CABLE_SERVO_HH. Cable Servo RC Female to Female.
- 1- CABLE_USB/MICROUSB. Cable USB-A Male to Micro USB-B Male, 2m.
- 1- CABLE JRCA. Cable Audio Stereo MiniJack 3.5M to RCA Male.
- 1- Clamp U-Bolt piece.





XOSDBB-264 Analog Video Transmitter

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



Format &

Analog video (PAL). Resolution:

625-Lines (576i).

25 Frames per second. 50 Fields per second.

Frequency: 2.4Ghz.

1000mW (+30dB). **Potency:**

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: 8-18Vcc (Port "PWR")

5V. Min 4.5V. Max 6Vcc (To feed the RC channels)

Consumption: Standby 50mA.

Max. 750mA.

Working

Temperature: $10^{\circ}\text{C} \sim +85^{\circ}\text{C}$ (CPU).

Ambient

-10°C to +50°C. Temperature:

Connectivity: RC, RCBus.

Upgradable &

Configurable: DMDStudio Soft.

To configure, you need an RX XLRS or use a

TTL 3.3V to USB converter.

Dimensions: 82,26 x 37,71mm x 39,52mm.

Weight: 72g.

Plastic and fiber base 2mm. Box:

RC Channels: 4 (Only work with RX XLRS).

RCBUS: 2 (To RX XLRS or 2nd XOSD).

Input

Cameras: 2 (Format: PAL)

(Use same power as the XOSD, it can be 8-18V).

Input Mavlink

1 (Port CH4/MAV). **Telemetry:**

Antenna

Connector: SMA-Female.

Microphone.

Thermostat with Fan.

Red Led: 1, Synchronism.

2, CAM1 & CAM2. Blue Leds:

Pages: 3, Selectables and configurables.

Character sizes: 3, 64x32 | 41x32 | 31x32.

Configurable

Alarms: Yes.

Units of measure: Metric or Imperials.

Instruments:

POWER: Batteries, Voltage, RPM, etc.

FLIGHT: GPS, Flight Time, etc. **NAVEGATION:** Distance, Course, etc. XLRS: RSSI, Noise Level, etc.



RXVID3V2+264

Analog Video Receiver

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

Video

2, Diversity. Receivers:

Frequency: 2.4Ghz.

Sensitivity: -94 dBm.

Channels:

Ch1: 2414Mhz | **Ch2:** 2432Mhz | **Ch3:** 2450Mhz Ch4: 2468Mhz | Ch5: 2490Mhz | Ch6: 2510Mhz

Ch7: 2390Mhz | Ch8: 2370Mhz

Frequency: 5.8Ghz.

Potency: 10mW (+10dB).

Channels:

Ch1: 5733Mhz | **Ch2:** 5752Mhz | **Ch3:** 5771Mhz **Ch4:** 5790Mhz | **Ch5:** 5809Mhz | **Ch6:** 5828Mhz

Ch7: 5847Mhz | **Ch8:** 5866Mhz

Voltage: 3.7V. 4.2V Full load.

Capacity: 5000mAh.

Cells: 1 cell 3.7V/5Ah.

Type: Lithium polymer.

Duration: 8-10h.

Battery Charge: 1A, USB (Micro-B).

Protected against over current.

Protected against excess load. Automatic disconnection.

Protected against excessive discharge.

Automatic disconnection.

Sound warning and low battery display.

Automatic shutdown by software in case of very low battery.



Video Receivers (2.4Ghz): 2.

Video Transmitter (5.8Ghz): 1.

Display Color: 1.

Encoder with push button (Control menu).

RCBUS: Serial Comunication.

Output Audio /Video: 1 (MiniJack 3.5mm).

Switch ON/OFF.

Red Leds:

1, RX1 (2.4Ghz) 1, RX2 (2.4Ghz) 1, TX1 (5.8Ghz)

Connector Antenas: 3, SMA-Female.

Working

Temperature: $10^{\circ}\text{C} \sim +55^{\circ}\text{C}$ (CPU).

Connectivity: RC, RCBus.

Upgradable &

Configurable: DMDStudio Soft.

98 x 90,5mm x 45mm. **Dimensions:**

300g (Without Antennas). Weight:

Box: Plastic, aluminum and methacrylate.



XVIDBV2-264 FPV Analog Video System



- 1- XOSD3B-2G4. OSD + Video Transmitter 2.4Ghz 1000mW.
- 1- RXVID3V2-2G4. Video Diversity Receiver 2.4Ghz + Video Transmitter 5.8Ghz 10mW.
- 1- ANTPLA24G17DB. Planar Antenna 2.4Ghz 17dBi.
- 2- ANTGSM24. Omnidirectional Antennas 2.4Ghz 5dBi.
- 1- ANTGSM58. Omnidirectional Antenna 5.8Ghz 5dBi.

- 1- LAT05M_SMAH/SMAM. Cable SMA-Female to SMA-Male, 500mm.
- 1- LAT20MSMAFNM. Cable SMA-Male to Connector N-Male, 200mm.
- 1- CABLE_PX4_XOSD. Cable Pixhawk for XOSD.
- 1- CABLE_SERVO_HH. Cable Servo RC Female to Female.
- 1- CABLE_USB/MICROUSB. Cable USB-A Male to Micro USB-B Male, 2m.
- 1- CABLE_JRCA. Cable Audio Stereo MiniJack 3.5M to RCA Male.
- 1- Clamp U-Bolt piece.





XOSD FIGURE

Analog Video Transmitter

On Screen Display + Video Transmitter
5.8Ghz / 1000mW / 4Ch RC / 1 Port MAVLINK Telemetry / 2 INP Camera



SPECIFICATIONS VIDEO TRANSMITTER

Format &

Resolution: Analog video (PAL).

625-Lines (576i). 25 Frames per second.

50 Fields per second.

Frequency: 5.8Ghz.

Potency: 1000mW (+30dB).

Potency (Opt.): 100mW (+20dB with att. 10dB).

Channels: 8.

Ch1: 5705Mhz | **Ch2:** 5685Mhz | **Ch3:** 5665Mhz **Ch4:** 5645Mhz | **Ch5:** 5885Mhz | **Ch6:** 5905Mhz

Ch7: 5925Mhz | Ch8: 5945Mhz

Voltage: 8-18Vcc (Port "PWR")

5V. Min 4.5V. Max 6Vcc (To feed the RC channels)

Consumption: Standby 50mA.

Max. 750mA.

Working

Temperature: $10^{\circ}\text{C} \sim +85^{\circ}\text{C}$ (CPU).

Ambient

Temperature: -10°C to +50°C.

Connectivity: RC, RCBus.

Upgradable &

Configurable: DMDStudio Soft.

To configure, you need an RX XLRS or use a

TTL 3.3V to USB converter.

Dimensions: 82,26 x 37,71mm x 39,52mm.

Weight: 72g.

Box: Plastic and fiber base 2mm.

FEATURES:

RC Channels: 4 (Only work with RX XLRS).

RCBUS: 2 (To RX XLRS or 2nd XOSD).

Input

Cameras: 2 (Format: PAL)

(Use same power as the XOSD, it can be 8-18V).

Input Mavlink

Telemetry: 1 (Port CH4/MAV).

Antenna

Connector: SMA-Female.

Microphone.

Thermostat with Fan.

Red Led: 1, Synchronism.

Blue Leds: 2, CAM1 & CAM2.

Pages: 3, Selectables and configurables.

Character sizes: 3, 64x32 | 41x32 | 31x32.

Configurable

Alarms: Yes.

Units of measure: Metric or Imperials.

Instruments:

POWER: Batteries, Voltage, RPM, etc.

FLIGHT: GPS, Flight Time, etc. **NAVEGATION:** Distance, Course, etc. **XLRS:** RSSI, Noise Level, etc.

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RXVID3V2 568

Analog Video Receiver

Video Diversity Receiver + Video Transmitter RX 5.8Ghz / TX 5.8Ghz 10mW

SPECIFICATIONS VIDEO RECEIVER:

Video

Receivers: 2, Diversity.

Frequency: 5.8Ghz.

Sensitivity: -90 dBm.

Channels: 8.

Ch1: 5733Mhz | **Ch2:** 5752Mhz | **Ch3:** 5771Mhz **Ch4:** 5790Mhz | **Ch5:** 5809Mhz | **Ch6:** 5828Mhz

Ch7: 5847Mhz | Ch8: 5866Mhz

SPECIFICATIONS VIDEO TRANSMITTER:

Frequency: 5.8Ghz.

Potency: 10mW (+10dB).

Channels: 8.

Ch1: 5705Mhz | **Ch2:** 5685Mhz | **Ch3:** 5665Mhz **Ch4:** 5645Mhz | **Ch5:** 5885Mhz | **Ch6:** 5905Mhz

Ch7: 5925Mhz | Ch8: 5945Mhz

INTERNAL BATTERY:

Voltage: 3.7V. 4.2V Full load.

Capacity: 5000mAh.

Cells: 1 cell 3.7V/5Ah.

Type: Lithium polymer.

Duration: 8-10h.

Battery Charge: 1A, USB (Micro-B).

Protected against over current.

Protected against excess load. Automatic disconnection.

Protected against excessive discharge.

Automatic disconnection.

Sound warning and low battery display.

Automatic shutdown by software in case of very low battery.



FEATURES:

Video Receivers (5.8Ghz): 2.

Video Transmitter (5.8Ghz): 1.

Display Color: 1.

Encoder with push button (Control menu).

RCBUS: Serial Comunication.

Output Audio /Video: 2 (MiniJack 3.5mm).

Switch ON/OFF.

Red Leds:

1, RX1 (5.8Ghz) 1, RX2 (5.8Ghz)

1, TX1 (5.8Ghz)

Connector Antenas: 3, SMA-Female.

Working

Temperature: $10^{\circ}\text{C} \sim +55^{\circ}\text{C}$ (CPU).

Connectivity: RC, RCBus.

Upgradable &

Configurable: DMDStudio Soft.

Dimensions: $98 \times 90,5 \text{mm} \times 45 \text{mm}.$

Weight: 330g (Without Anennas).

Box: Plastic, aluminum and methacrylate.



XVIDBV2-568 FPV Analog Video System



- 1- XOSD3B-5G8. OSD + Video Transmitter 5.8Ghz 1000mW.
- 1- RXVID3V2-5G8. Video Diversity Receiver 5.8Ghz + Video Transmitter 5.8Ghz 10mW.
- 1- ANTPLA58G19DB. Planar Antenna 5.8Ghz 19dBi.
- 3- ANTGSM58. Omnidirectional Antenna 5.8Ghz 5dBi.

- 1- LAT05M_SMAH/SMAM. Cable SMA-Female to SMA-Male, 500mm.
- 1- LAT20MSMAFNM. Cable SMA-Male to Connector N-Male, 200mm.
- 1- CABLE_PX4_XOSD. Cable Pixhawk for XOSD.
- 1- CABLE_SERVO_HH. Cable Servo RC Female to Female.
- 1- CABLE_USB/MICROUSB. Cable USB-A Male to Micro USB-B Male, 2m.
- 1- CABLE_JRCA. Cable Audio Stereo MiniJack 3.5M to RCA Male.
- 1- Clamp U-Bolt piece.















XVID3V2 Manual:

Manual RXVID3V2.

Manual XOSD3B.

Firts steps (Quick Guide).

XLRS connection diagrams.

DMDStudio Manual:





l earn 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.

Range Analog video.

FAQs, Analog video.



- * Consult regulations in your country. Not for use in UE.
- * The information and images shown in this datasheet, are only referential and may differ from the final product.
- * The ranges shown are estimates and in optimal conditions.

