

**BLACK BOX
VIDEO**

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5 CHANNEL **HIGH POWER** **VIDEO SENDER**

CAUTION
READ
INSTRUCTIONS
BEFORE USE

Stock Codes 302 and 301

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DESCRIPTION AND INSTRUCTIONS



Our Video Sender is designed to transmit high quality pictures and sound from a camera to a monitor using a legal, licence free 2.4 GHz microwave link.

The small, lightweight Transmitter can be easily attached to the camera's battery with velcro, and takes its power from the camera battery. The small, efficient omni-directional aerial radiates in all directions. Make sure the aerial is as high as possible and proud of the camera body.

The Transmitter is powered with any voltage from 9 to 36 volts via a standard 4 pin Hirose socket.

The new Mk 2 Receiver - much smaller (about 45%) than the Mk 1 unit! - is designed to receive microwave signals from the Transmitter and display high quality pictures and sound on any monitor of your choice, as before. It is compact and light in its new, robust die-cast case, and the efficient omni-directional aerial with right angled SMA connector comes as standard.

You can expect up to 300 metres range outdoors (line of sight) or up to 30 metres indoors. If, however, you are using the Receiver with The STAMP, the ranges you can expect are 50 or 15 metres respectively.

WARNING !!

If powering from a camera's Hirose socket please make sure your camera can supply the necessary current without blowing the internal fuse. If not, use another source such as the BP90 socket on a PAGlock plate.

Current consumption of the Transmitter is 170mA at 12 volts. The Transmitter has a switch mode power supply inside so will consume half the current at 24 volts and pro-rata for other voltages.

INSTRUCTIONS FOR USE

Transmitter

Connect the video in to the BNC socket. The video signal should be PAL or NTSC composite video at 1 volt p-p.

If sound is required connect a line level signal to the phono socket.



Select a suitable free channel on the rotary selector switch if you have a multi-channel model, and make sure the Receiver is switched to the same channel.

Switch the unit with the new mini toggle power switch and checking the green LED comes on.



The aerial is our new, rigid screw-on type with SMA connector. This allows much greater choice of aerial options - such as the Box Aerial.



Mk 2 Receiver

The Receiver is housed in a robust die-cast case and has a rigid screw-on right-angled aerial with SMA connector. The Receiver can be powered from any nominal 12 volt source capable of supplying 130 mA. The actual voltage range is from 8 to 16 volts and is applied via the 4 pin Hirose socket on the end of the unit.



Video is output via the BNC socket and sound via the 3.5mm stereo jack socket.

Make sure the rotary selector switch is set to the same channel as the Transmitter.

Switch on using the toggle power switch on the end of the unit and check the red light comes on.

We can supply suitable batteries, mains power pack and cables if required.

Make sure the aerial is vertical and clear of any surrounding metalwork or obstructions.

This Mk 2 version is much smaller than the previous Receiver - in fact, it is 45% smaller!

PROBLEM SOLVING

If you experience interference or bad picture break-up try another channel, as it is likely there is another unit on the same frequency. Don't forget the Transmitter and Receiver must be on the same channel.

Note that only channels 1 - 5 on the channel selector are valid.

The Transmitter has an omni-directional aerial which radiates in all directions. It is very important that the aerial tip is in free space with no objects or wires near it.

When using the Sender indoors reflections from girders, wiring, etc, will cause occasional flashes on the received picture when cancellation occurs. This will only happen when the Transmitter or Receiver is moving relative to each other or when objects are moved between the Transmitter or Receiver.

When used with the standard Transmitter outside line of sight these problems largely don't arise and the signal is much more stable. When used with the standard Transmitter a maximum range of about 300 metres should be obtained outside, line of sight. Indoors a range of around 30 metres should generally be expected. These ranges will be reduced when using the Receiver with The STAMP to 50 metres and 15 metres respectively.

SPECIFICATIONS

Transmitter Specification

Supply voltage	9 - 36 volts
Supply current @ 12 volts	170 mA
Hirose socket wiring	Pin 1 = -ve, Pin 4 = +ve
Video in (BNC socket)	Composite video PAL or NTSC 1 volt p-p
Sound in (Phono socket)	Line level
Power output	160 mW
Frequency, MHz	2415.5, 2428.5, 2442.5, 2456.5, 2470.5

Receiver Specification

Supply voltage	8 - 16 volts
Supply current	170 mA
Hirose socket wiring	Pin 1 = -ve, Pin 4 = +ve
Video out	1 volt p-p
Sound out	Line level

HP VIDEO SENDER - TRANSMITTER

Stock Code 302

PRICES:

HP Five Channel TX

£595

VIDEO SENDER - Mk 2 RECEIVER

Stock Code 301

Five Channel RX

£259