

S-Band Video Receiver

The S-band video receiver is a system with the following components:

- Receiver unit with integrated 4,5 inch TFT color monitor and spectrum analyzer function
- Receiving antenna with LNC
- Antenna cable
- Antenna stand
- GPS data demodulator (optional)

The receiver is accepting analog frequency modulated video signals and digital video signals according to the DVB-S standard. The operating frequency range is 2350 MHz to 2550 MHz. The demodulated signal can be displayed on the integrated 4,5 inch TFT display. The receiver has a spectrum analyzer function for easy adjustment of the operating frequency. The spectrum is shown on the integrated display.

External video equipment (monitors, video tape recorders, etc.) can be connected via an output connector.

The receiver has an integrated rechargeable battery for mobile use. As a standard the system is shipped with a 6dBi gain dipole antenna, 5 meters low loss coaxial antenna cable and an antenna stand that can be extended up to 2 meters.

A GPS data demodulator is available as an option. This demodulator enables the reception of the GPS data from IFN's 2,4 GHz video transmitter. The data output is a standard RS232 interface.



Specifications

Receiver with LNC

	Min.	Typ.	Max.	Unit
Reception bandwidth (- 3 dB)	2350		2550	MHz
Sensitivity ¹	-90		-55	dBm
IF frequency range	1434		1634	MHz
FM deviation	0	3,5	6,5	MHz
Signal level at video output ²	0	0,7	1	V _{SS}
Sound carrier	5,5		8,5	MHz

¹: at 2400 MHz and 20 dB signal to noise ratio in the video signal

²: at FM-deviation 0 MHz, 3,5 MHz, 6,0 MHz

RF input LNC	N jack
IF output LNC	N jack
IF input receiver	BNC jack
Video output	Cinch jack
GPS data demodulator	4-way jack with twist lock
Power input	6 mm plug, 1,5 mm center connector

Analogue video standards	PAL, NTSC
Digital video standards	DVB-S, QPSK 1 – 45 MS/s
Displays	4,5" TFT color monitor, LED status displays for different reception settings, signal strength, battery charge level, speaker mute
Controls	Numerical keypad for function selection, rotary knob for reception frequency adjustment, rotary knobs for sound carrier frequency and volume adjustment, on/off switch

Power supply	External: Mains adaptor 100 – 240 V AC, 50 / 60 Hz, In-car adaptor 12 - 13,8 V DC, 2 A; Integrated battery 12 V, 3 Ah
Operation time on battery power	Approx. 1 hour on a fully charged battery
Weight	Approx. 5,5 kg
Dimensions	19 x 10 x 30 cm

Antenna and LNC (standard setup)

Antenna	Stacked dipole, N jack
Antenna gain	6 dBi
Vertical beam width	22°
Power supply LNC	Integrated via antenna connector from the receiver
Weight	Approx. 1,4 kg
Dimensions	48 x 14 x 17 cm

Antenna cable (standard setup)

Type	Aircell 7
Antenna connector	N plug
Receiver connector	BNC plug
Length (standard)	5 m
Weight	Approx. 0,5 kg

Stand (standard setup)

Dimensions (collapsed)	12 x 12 x 98 cm
Max. antenna height	Approx. 2 m
Weight	Approx. 3,6 kg

GPS data demodulator (optional)

Dimensions	5 x 5 x 3,2 cm
Receiver connector	4-way jack with twist lock
Data output	RS232, 9-way Sub-D jack
Bit rate	1200 Baud, 8N1
Power supply	Via the receiver
Weight	Approx. 82 g