



24/7 hour booking  
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## **Flevosat | Live television satcom services.**

Flevosat.nl an independent satellite broadcast company from The Netherlands.

We offer high quality broadcast television, radio and IP services via satellite. Available, a very complete EBU (Eurovision) compliant HD satellite KU-band carrying-van with build-in newest technology for reliable satellite transmissions.

Our van is designed for:

- studio and live OB reports
- 2 way live stand-up's
- news feeds
- live sport productions
- current affairs
- live surgery
- medical conferences
- corporate jobs

The transmission paths are fully redundant can be used in 1 for 1 or phase combined setup. Power supply is guaranteed by a no break UPS system.

By using its own PTO driven generator the van is fully power self-supporting. An external super-silent generator is available, will be towed (available on request).

The SNG van is operated by an experienced engineer and operator. The operator speaks Dutch, English and German.

Operating area: Europe and beyond.

# Technical Specifications / On board equipment

version 1.57 Oct '18

## MPEG-4 & MPEG-2 HD-DSNG | EBU (Eurovision) compliant

Designed for HD-SDI and SD-SDI transmissions. 1+1 (redundant) 2+0 (dual path) or 2+1 (redundant dual path) 3+1 (redundant triple path) mode.

### Details:

Eutelsat, Intelsat, SES, Astra, NSS New Skies, Hispasat, Sirius registrations.  
Station ID Eutelsat: **HOL-090**

- 4 wire/ IFB1: +31 6 57853422 KPN network
- 4 wire/ IFB2: +31 6 15558412 Vodafone network

### Vehicle information:

Volkswagen Crafter. License plate/ registration number: **VK-681-J**  
Length: 6.2 meter, Width: 2.3 meter, Height 3,35 meter, Weight: 3,5 tons  
Tow bar for trailer, maximum tow weight 750 Kg  
The vehicle is no subject to a speed limiter  
Diesel engine, conforms to latest 2015 emission EURO-5  
Hydraulic heavy duty jacks, front and rear, auto-leveling

### Mains, power and air conditioning:

Connection to grid: 32 or 16 Ampère 3 phase 5 pin male RED CEE-Form, Load +/- 8KVA  
Maximum distance to grid power: 90 meter with onboard cables.  
No break UPS: 2 units, a total of 8 KVA divided over 2 chains.  
P.T.O. main engine driven onboard generator max. load: 14,5 Kw (backup generator)  
2x Dometic 3200, 2800Watt cooling per unit. Cooling and heating

### Antenna:

High gain Vertex DMK 1.5 meter, 4 ports KU-band antenna, no polarity restrictions  
Manual control, no tracking. Extended KU-band TX 13.75-14.5GHz  
2x 180W Stellar Ku BAND TWTA, phase combined or 1-1 switchable.  
Output Max EIRP 70.3 dBW effective  
RX 10.7-12.75GHz 43.6 dBi H & V high and low band,  
All RX ports available for reception at the same time, no switching needed.

### Encoders: 3 (or more)

Adtec EN-81 Mpeg-2/4, HD/SD Low delay, 4:2:0\_4:2:2 BISS-1/E Encryption, up to 16 audio channels, Dolby E, Dolby Digital.  
Adtec EN-91 Mpeg-4, HD/SD Low delay, 4:2:0\_4:2:2 BISS-1/E Encryption, up to 16 audio channels, Dolby E, Dolby Digital  
Adtec MediaHub Pro Mpeg-2/4, HD/SD Low delay, 4:2:0\_4:2:2 BISS-1/E Encryption, up to 8 audio, Dolby E, Dolby Digital

### Multiplexer:

1 x Nevion T-VIPS CP525 ASI multiplexer/re-multiplexer. 4 ASI inputs, 2 ASI outputs.

### Modulators: 3

DVB-S, DVB-S2, QPSK or 8PSK Modulation  
20% ,25% & 35% roll-off, IF=70 Mhz

### RF-Upconverters:

2x Miteq U-9696 upconverters 70 MHz-> 13.75-14.5GHz (extended KU)

### Downlink – Demods/Decoders/IRD's:

Tandberg RX-8200, 8 bit HD1080i, Mpeg 2/Mpeg 4(H264) 4.2.0/4.2.2 Rass & BISS1/E  
Adtec RD-71, 10 bit HD1080i & 1080p, Mpeg 2/Mpeg 4(H264) 4.2.0/4.2.2 BISS1/E  
1x Ericsson RX1290, 8 bit HD1080i, Mpeg 2/Mpeg 4(H264) Mpeg 2/H264 4.2.0, BISS1/E.  
1x Off-sat DVB & DVB-S2 MPEG-2/MPEG-4 HD Receiver. 1 x Off-air DVB-T SD receiver.

Website: <http://www.flevosat.nl> E-mail: [info@flevosat.nl](mailto:info@flevosat.nl) Booking +31 621 294 804

**Measurement:**

Spectrum analyzer 3 GHz.

Harris Rasterizer SD/HD Waveform, Vector, Audio (Dolby-E monitoring) and EYE  
Wohler E MON-1 HD SDI 8 Channel, Dolby E, Dolby Digital & PCM Audio Monitor

**Baseband/ Comms:**

Prospect Electronics K6R IFB Talkback unit 4 IFB's.

Prospect intercom mixer C6LXT.

1x Prospect 2/4 wire desktop box C5X

2x Cell-phone hybrid (4 wire/reporter IFB)

2x CTP in-ear beltpack amplifier.

Riedel RiFace TV Dual transmitter/ receiver. (Licensed frequencies for use in the Netherlands)

2x Wireless receiver for in-ear use.

1x Prodis, Prononet ISDN/Tcp-IP Codec (PCM, G711/G722, MPEG L2, OPUS, APTX and AAC compression) ISDN, IP by cable (preferable) or on-board 3g/4g router

High quality, low delay 4 wire or commentator/ reporter codec unit.

(connectivity at 3g/4g, availability depending on Qos mobile telephone network)

**Vision:**

32 x 32 AJA HD-SDI Vision Router.

2x AXON HD/SD down converter and/or audio de-embedder 4ch

1x AXON HD/SD Audio embedder 8 channels

1x AXON 2TG100 Lip-sync measurement tool & Id generator

2x HD LCD monitors divided in 4 screens, every path can monitor 8 embedded audio channels.

**Audio:**

2x analogue RTW stereo audio meters + phase control function

Control monitors: Genelec

Analog audio distribution: AXON

Audio mixer: Yamaha DM-1000 with meter bridge

**Playback/Record:**

Sony PDW-1500 Mpeg-4 HD XD-cam 4:2:0/4:2:2 Recorder/player

Final Cut Pro 10 editing tools are available. Available on request, **not** standard aboard!

**Cables:**

3x 80 meter HD-SDI cables on drum

2x 150 meter SMPTE cable, single mode 2 fiber carriers, on drums

1 set Dual Channel 3G/SDI, HD/SDI Fiber Optic Link bi-directional (2x Tx, 1x Rx)

1x 2 pairs audio microphone cable 100 Meter on drum

1x 50 meter Shuco 220V/16 Amp's cable on drum

1x Converter/ splitter, 63 Ampère 3 phase 5 pin male CEE-Form -> 2x 32 Ampère 3 phase 5 pin female CEE-Form

Various Audio, Video, Network and L-band cables.

**Optional - Dolby Surround audio Broadcasting, or for rent:**

Dolby (AC-3) Digital Multichannel Audio Encoder DP569

Dolby (AC-3) Digital Multichannel Audio Decoder DP562

Dolby (E) Digital Multichannel Audio Decoder DP572

\* all specifications are subject to change !!!