



24/7 hour booking
+31 621 294 804
info@flevosat.nl



Flevosat | Television satcom services.

We are an independent satellite broadcast company from the Netherlands.

Quality is our main concern

We offering high quality broadcast television, radio and IP services via satellite. Available is a very complete EBU/Eurovision compliant HD KU-band satellite van. With build-in newest technology for reliable satellite transmissions.

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

The transmission and reception paths are fully redundant. They can be used 1 for 1 or phase combined. Power supply is guaranteed by a redundant no break UPS system. In case of power outage from shore power, the main engine PTO driven generator can supply backup power. An external super-silent generator is available, will be towed. (available on request).

The SNG van will be operated by experienced engineers/operators. They speak Dutch, English and German.

Operating area: the Netherlands, Europe and beyond.

Technical Specifications / On board equipment

25 Aug '21

MPEG-4 HD-SNG | EBU (Eurovision) compliant

Prepared for 1+1 (redundant) 2+0 (dual path) or 2+1 (redundant dual path)

Details:

Eutelsat, Intelsat/Thor/10-02, SES/Astra/NSS/New-Skies/Sirius and Hispasat registrations.
Station ID Eutelsat: **HOL-090** | Station ID SES: **HOL-048**

- 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 1500 Kg, Hydraulic heavy duty jacks, front and rear, auto-leveling. The vehicle is no subject to a speed limiter. Rear axle with air suspension and level control. Diesel engine, conforms to latest 2015 emission EURO-5

Mains, power and air conditioning:

Connection to grid: 32 Ampère 3 phase 5 pin male RED CEE-Form.
Load +/- 8 KVA * "without charging batteries".
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 linear KU-band antenna.
Manual control, no automatic tracking.
2x 180W Stellar Ku BAND TWTA Extended KU-band TX 13.75-14.5GHz, 1-1 or phase combined
Output **EIRP 70.3 dBW** available at feedhorn.
RX 10.7-12.75GHz 43.6 dBi H & V high and low band.
All 4 RX ports available for reception at the same time, no switching needed.

Modulators: 3 (or more)

2x Enensys Vyper DVB-S, DVB-S2, DVB-S2X | QPSK, 8PSK, 16APSK and 32APSK Modulation
0.05 to 80Mbauds + very low SNR modes | 5% -35% roll-off | IF= 50-180Mhz BISS-1/E/2/CA
1x Tandberg DVB-S, DVB-S2 | QPSK, 8PSK, 16APSK Modulation

RF-Upconverters: 2 (or more)

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

Encoders: 3 (or more)

Adtec EN-81 Mpeg-2/4, HD/SD Low/normal 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 Very Low/normal 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/normal, 4:2:0_4:2:2 BISS-1/E Encryption, up to 8 audio, Dolby E, Dolby Digital

ASI Multiplexer:

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

Decoders – Demods/IRD's: 3 (or more)

1 Tandberg RX-8200, HD1080i & 1080p, Mpeg 2/Mpeg 4(H264) 4.2.0/4.2.2
RASS & BISS-1/E/2/CA QPSK/8PSK
1 x Ericsson RX-8200, HD1080i & 1080p, Mpeg 2/Mpeg 4(H264) 4.2.0/4.2.2 BISS-1/E/2/CA
DVBS/DVBS2/DVBSX - QPSK/8PSK/16APSK/32APSK
1 x Adtec RD-71, HD1080i & 1080p, Mpeg 2/Mpeg 4(H264) 4.2.0/4.2.2 BISS-1/E/
QPSK/8PSK/16APSK

1x Off-air/ Off-sat DVB-T & DVB-S2 MPEG-2/MPEG-4 HD Receiver.

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

Measurement:

Spectrum analyzer 3 GHz Rohde und Schwarz FS300
Leitch Rasterizer SD/HD Waveform, Eye, Vector, Audio (Dolby-E monitoring)
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 Dual transmitter/receiver 400-470MHz. (16 Licensed frequencies in the Netherlands)
3x Wireless receivers for in-ear IFB use.
1x Prodys, Prononet TCP-IP Codec (PCM, G711/G722, MPEG L2, OPUS, APTX and AAC)
High quality, low delay 4 wire dual mono/stereo codec unit.
(connectivity by wire or by 3g/4g, availability depending on Qos mobile telephone network)

Vision:

32 x 32 AJA 3G HD-SDI Vision Router.
2x AXON HD/SD 4ch audio de-embedder
1x AXON HD/SD 8ch audio embedder
1x AXON 2TG100 Lip-sync measurement tool & Id/test 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
Digital audiomixer: Yamaha DM-1000 with meter bridge, build in Yamaha 8 ch de-embedder & AUDINATE DANTE-MY16-AUD2 16-Channel Dante Network I/O Card
2x Sonifex AVN-AIO8R - 8 Input, 8 Output Dual Dante Interface
Various microphones: Re-50, Bayer Dynamic, Sennheiser, wireless Sony transmitter & beltpack

Playback/Record:

Sony PDW-1500 Mpeg-4 SD/HD 4:2:0/4:2:2 XD-Cam single & double density 23Gb & 50Gb disks
* Final Cut Pro 10 editing tools are available. Only available on request, **not** standard aboard!

Fibre: 2x 150 meter SMPTE cable (a total length of 300 meter) single mode, 2 fibre carriers.
Field unit runs on battery (6 hours) or local power. 2x camera, 1x return, 4x audio two way

Cables:

3x HD video cable 75 meter
1x single audio cable 100 meter
1x multi 4 audio microphone cable 100 Meter on drum
1x 50 meter Shuco 220V/16 Amp's cable on drum
1x cat-6 network cable 100 meter
Various Audio, Video, Network, Power and L-band cables.
1x splitter 63 Ampère 3 phase 5 pin male CEE-Form -> 2x 32 Ampère 3 phase 5 pin female CEE-Form

* all specifications are subject to change !!!