

FOR SALE

“State of the Art 4K SNG full redundant”

Used 4K SNG Mercedes Sprinter 519 CDI

**High level fully redundant 4K SNG 2+1
In Super condition - according to EBU standard**

The SNG was built in 2023 by ND Satcom - Germany

First registration in November 2023

Registered as “special vehicle”

First transmission in 2023

Mileage 20.500km

Euro Emission Norm: Euro 6

TÜV/MOT valid until October 2025

Power system 32 Ampere CEE -IEC 60364-7-717-UEFA-FIFA standard

UPS – 2x Eaton 9SX 5000i

MobiE MB6003 power generator

HPC Hydraulic levelling system - to control the stamps + levelling

CTEK MXS 5.0 Battery charger - 12 Volt

Air condition: Dometic Fresh Well and Coleman Mach

Including:

2x KU-Band 4413 BUL 400W HPAs with block up converter – year of built 2023

13,75 – 14,50 GHz frequency range

Upconverters included in the HPA's - web based + front panel

1x NTT H32000E Encoder - 4K

1x NTT HC 11000E Encoder- 4K

3x Sencore SMD 989 Modulator

1x Sencore MRD7000 Decoder - 4K with 4 licenses included

1x Adtec IRD60 Decoder -1080i

2x Newtec FRC 0750 L-band combiner

Skymas 1900 Antenna

1x Oyster vision receiving Antenna

Multiplexing possible

Ross Ultrix NS FR1 4K video matrix

Phabrix Qx measuring device

Rigol RSA 3030 -9Khz-3Ghz spectrum analyzer

IEC 60364-7-717 power certificate

Navigation system through Car radio

Rear camera system

Alarm system included



SNG facts:

- 4K SNG fully redundant 2+1 - EBU standard
- High level uplink and broadcast technology with corresponding redundancies - in UHD -4K
 - » all requirements of the EBU or UEFA are met
 - » streaming system integrated
 - » one-room concept (1-4 workstations)
- » integrated emergency power generator / UPS concept
- SNG is in top condition

Video/Audio/Camera equipment:

Videomatrix:

- There is a Ross Ultrix NS FR1 4K video matrix installed 36x video out/inputs
- To distribute all incoming foreign 4K signals to the 4K Encoders.
- Multiviewing is routed also via the video matrix.
- The cabling for the 3G matrix is connected from the rear side matrix to the Encoders/Decoders

Intercom:

- Riedel Artist 32x32 intercom system

Satellite equipment:

- Very low HPA hours
- All waveguides and tubes are in excellent condition
- Helix current is very low.

Uplink system:

The transmission chain of the uplink system consists of:

Two active L-Band combiners Newtec FRC0750 for multi carrier operation
Two Ku Band 400W high power amplifier (TWT) with Blockupconverter
which converts the input L-Band signal to Ku-Band 13.75 – 14.5 GHz

Downlink system:

The receive chain of the downlink system consists of:

Transmit reject filter
One dual band LNB for cross-polar reception
Waveguide Diplexer to allow reception in the transmit polarization
One dual band LNB for co-polar reception
One active L-Band distribution (2x 1:8) LRXD28
One Ku-Band LNB for Tx monitoring
Bias-T for power supply of LNB

Technical specifications of the 4K SNG:

Vehicle information:

Mercedes Sprinter 519 CDI

First registration:

November 2023

Mileage:

19.500km

TÜV/MOT valid until:

October 2025

Measurements vehicle:

Length: 7,0m

Width: 2,2m

Height: 3,2m

Power Supply - according IEC 60364-7-717 -UEFA -FIFA standard

32A CEE

With 45 meter power cable

Maximum Weight of the vehicle:

5,3 tons

Euro Emission Norm:

Euro 6

Air condition – Dometic + Coleman:

2 independent circles for racks and production

Cooling: 2.700W

Heating: 3.000W

Jacks - stamps:

Hydraulic jacks on rear side

Diesel stand heater

Through the diesel tank of the vehicle.

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Power generator:

MobiE MB6003 system

UPS system:

2x Eaton 9SX 5000

13 minutes in full working condition

Satellite equipment:

Antenna:

ND Satcom MAS 1900

Size: 1.5mtr. diagonal - 1.9mtr – across

The main component of the station is the antenna system, consisting of:

Electric. Motorized Az/El rotary mount

Feed system with polarization adjustment

1.5 m diamond antenna reflector with mounting frame

GPS, Inclinator, Compass to allow automatic pointing

Mount Winter AR/AE 1047E Extended

Satellite Dish for return signal:

Oyster Vision

Antenna controller:

ND Satcom ACU 5020

ND Satcom ACU E 110B SNG

HPAs – ND Satcom:

2x ND Satcom KU Band 4413 BUL 400 Watt with included block up converter - web based + Front panel controlled

Frequencies: 13.75-14.50 Ghz

HPA redundancy Controller:

ND Satcom RCU 5000

HPA 1:

Helix current 0.6mA

Elap Time TX On: 409 hours

Elap heater time: 468 hours

HPA 2:

Helix current 0.65mA

Elapsed Time TX On: 476 hours

Elapsed heater time: 570 hours

Encoder - HDR-4K:

1x NTT HC 3200E – 4K encoder

1x NTT HC 11000E 4K encoder

Formats:

AVC-HEVC-UHD-BISS-BISS2-CA

DVB-S -DVB-S2-DVB-S2X-QPSK-8PSK-16APSK-32APSK

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Encoder output:

Encoder ASI out + external modulator - 2+1 installed + Newtec FRC0750 L-Band combiner

Decoder - 4K:

1x Sencore MRD 7000 4K decoder - 4x IRD license included

Formats:

AVC-HEVC-UHD-BISS-BISS2-CA

DVB-S -DVBS2-DVB-S2X-QPSK-8PSK-16APSK-32APSK

1x Adtec RD-60 Decoder -1080i

Modulators:

3x Sencore SMD 989 modulators

Encoder/Decoder Formats:

HD-4K

HDR

HD 1080i

HEVC -H265

BISS:

Biss 1 + Biss CA

Streaming Encoder:

1x Rossopen Gear OGX-FR with 2x T21 92610GE

Phase combiner:

2x Newtec FRC0750 combiner

Symbol rate range:

From 0.5-45MSps

Multiplexing:

Multiplexing is possible

Network Switch:

1x SMC EZ switch SMCGS24C-smart

1x Netgear Prosafe 24 Port GS724T

HD Sat receiver:

1x Telestar Starsat HD+SL8

ND Satcom Receiving Matrix:

ND Satcom TX+RX receiving matrix

Spectrum Analyzer:

Rigol RSA3030 spectrum analyzer

Measurement equipment:

Phabrix Qx waveform monitor

1x Rigol RSA 3030 -9KHz-3Ghz

ND Satcom Receiving -distribution Matrix:

1x ND Satcom Receiving distribution Matrix

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Production Gallery:

Video Matrix -HD1080i+1080p-HDR-4K -12G:

Ross Ultrix-NS-FR1

With matrix control panel Ross RCP QE36

36x video out/inputs

Yellowbrick units:

1RU Rack frame -Yellowbrick RFR 1200

4x Yellowbrick PDM 1484-D -Analogue Audio embedder/De-embedder

1x Yellowbrick CHD 1402 -HDMI 2.0 to SDI converter

2x Yellowbrick CQS1441 -Qud-single link converter

Video/Audio configuration system:

1xHP mini Elite 800 G9 i7 configuration computer

Multiviewer:

Integrated in the Ross Ultrix

2x MV with 16 in/outputs

Monitoring:

2x HD Qline QDP 320-B 4K monitors

1x Wohler AMP1-8M

1x Wohler AMP2-16V

2xBlackmagic 4K control monitors on the rear side

Recording:

Aja Ki Pro GO

Video mixer:

No Videomixer

Frame synchronizer:

Aja FS4

Master Reference Generator:

1x Sync generator - AJA GENV10 HD/SD Sync generator

5 outputs + extra device AJA analogue 1x 6 distribution amplifier C10 DA for 5 additional outputs

Monitors:

1x liyama control monitor ProLite XU2294HSU

2x Blackmagic reference monitors – rear side of SNG

Audio:

Audio mixer:

Not installed.

Intercom System:

1x Riedel Artist 32x32 Mainframe

Included cards:

1xCPU128S-G2

1x Coax 108G2

1x AIO 108G2

1x VoIP 108 G2

Intercom panels:

1xRSP 2318

1xRCP 1012E

Audio monitoring:

Wohler eAMP1-8M

Wohler iVAM2-2

Soundboxes:

2x Genelec sound boxes

DSL Modem:

1x AVM Fritz! Box 7590

Rear side:

Included Video/Audio/Multicore cables

Schill drum CAT-7 network drum – 75m –

Schill drum UHD video – 45m

Schill drum HD video – 50m

2x Lemo SMPTE 180m fiber camera cable

1x Schill Belt tension drum video cable 60m HD Diverse patch cables

Video Patchbay (external & internal)

Rear side patch field for audio/video connections

Inside the SNG patch field for audio/video connections

UPS system:

2x Eaton UPS 9SX 5000i systems

With up to 13 minutes in full working condition

Power cable:

1x 45m power cable

Electric equipment:

The electrical equipment of the vehicle is divided into three main areas:

1. 230 V supply of the uplink system and the A/V production system via an external power supply 3-phase/400V.
2. 230 V supply via the installed generator (6.2 kW)
3. Expansion of the 12V vehicle electrical system for supplying the lighting, etc.

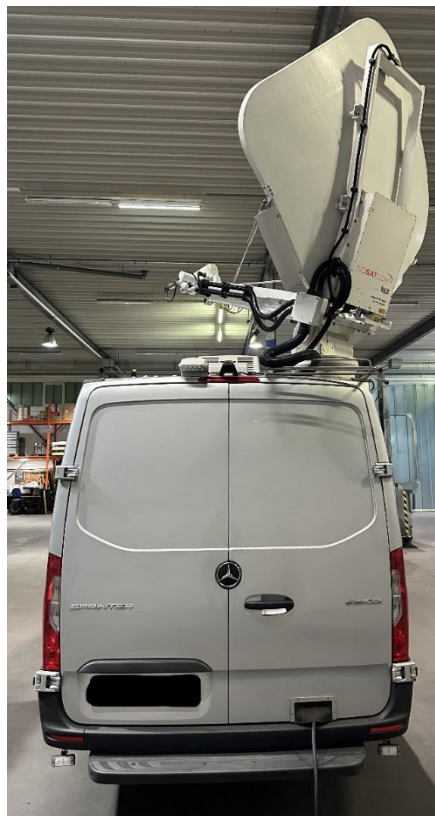
230 V supply:

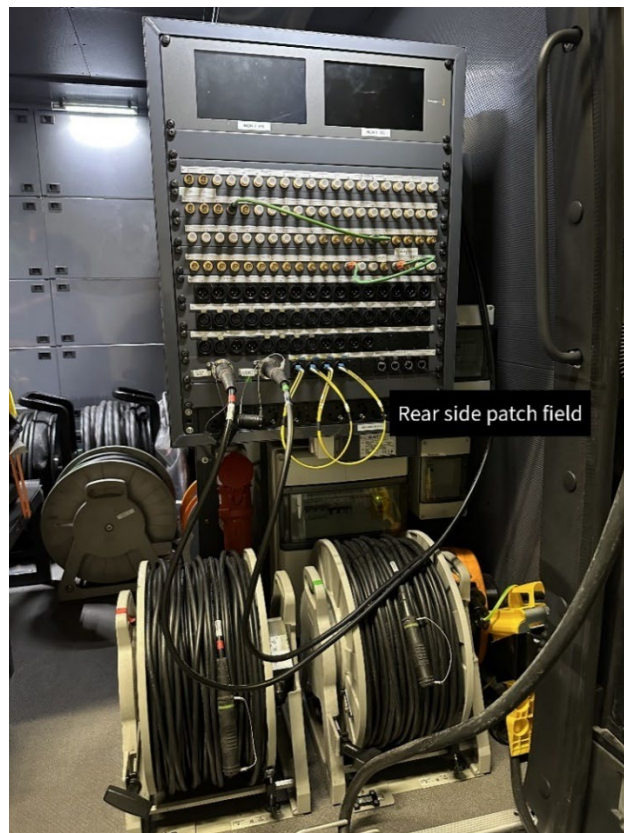
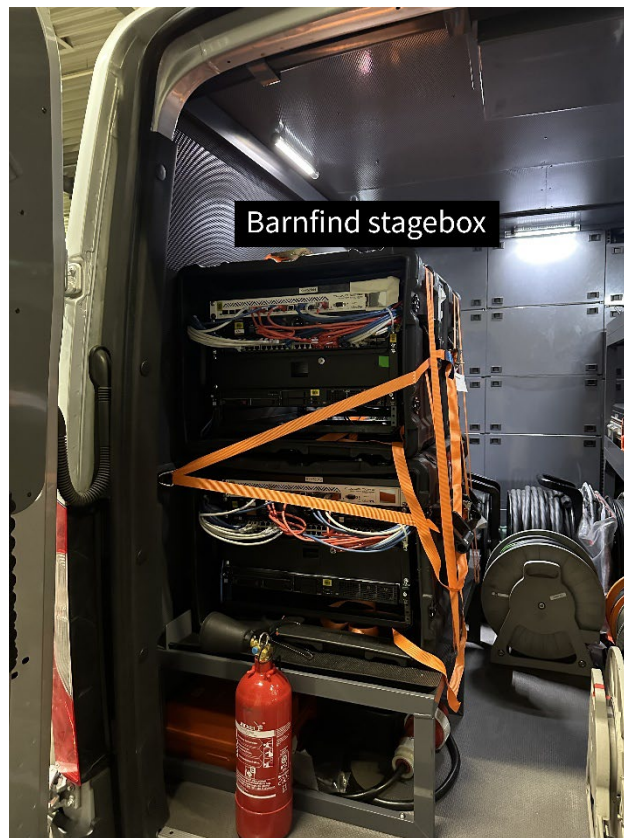
The vehicle can be supplied via the 3x230V/32A input or via the generator. The switchover is

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done by an integrated cam switch in the main power distribution. The external power input is equipped with a Multi-functional voltage relay with automatic check of voltage and frequency of the input source before switching on.

Photos of the HD SNG:



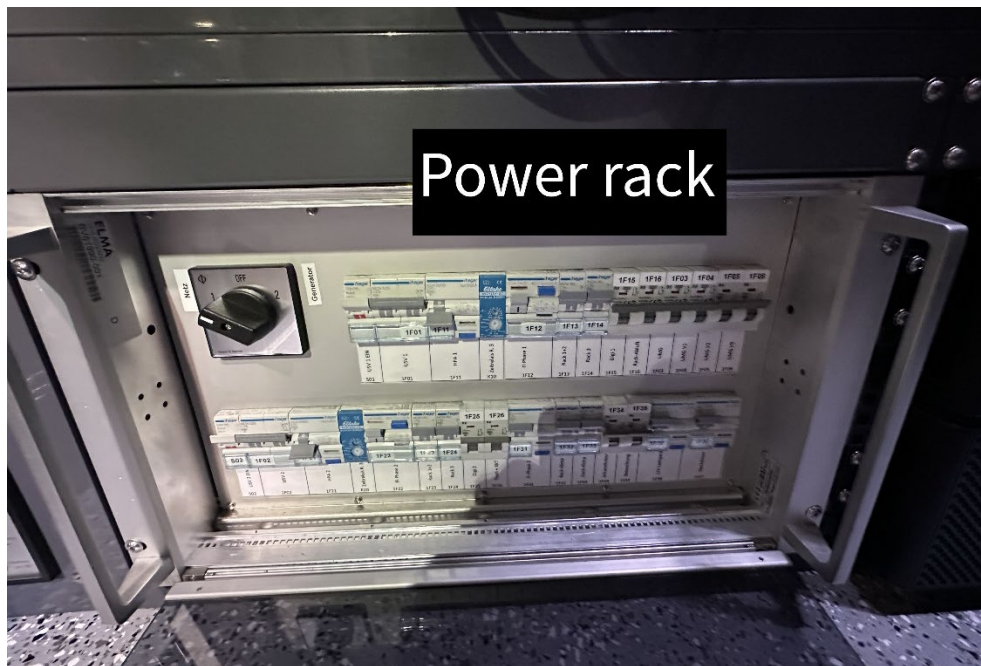


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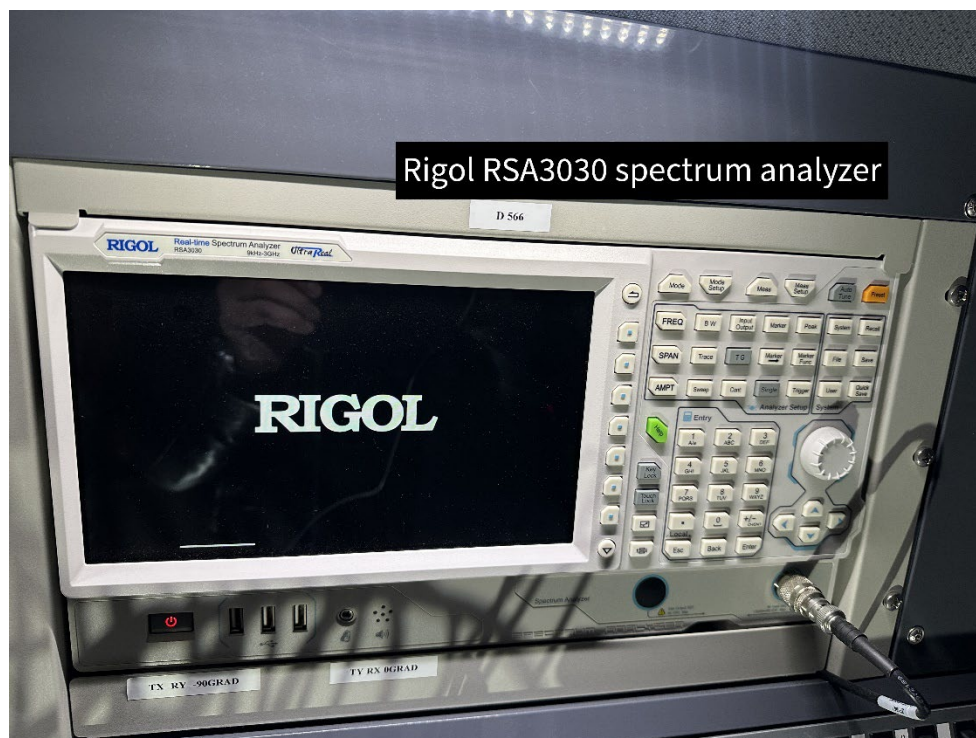


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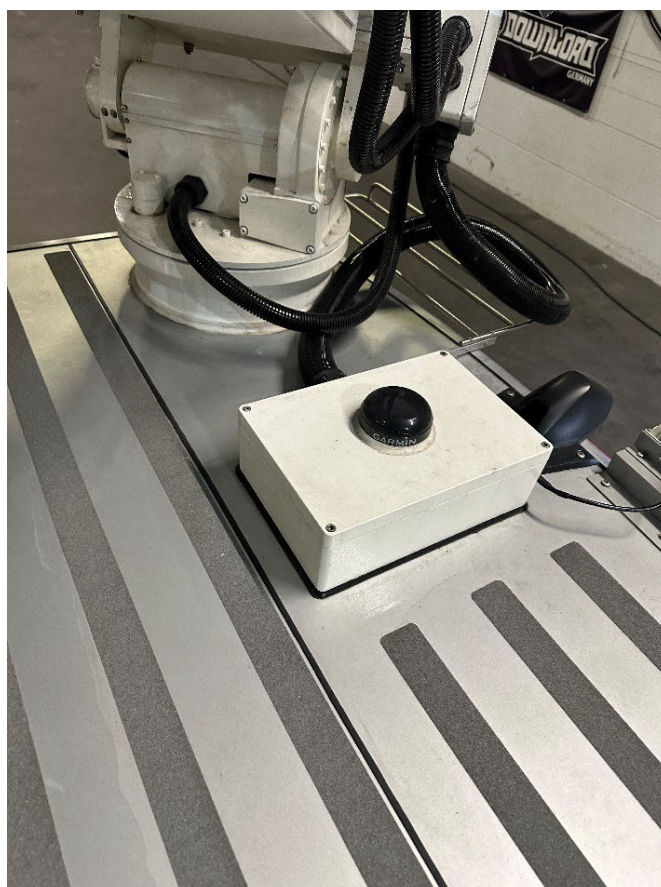
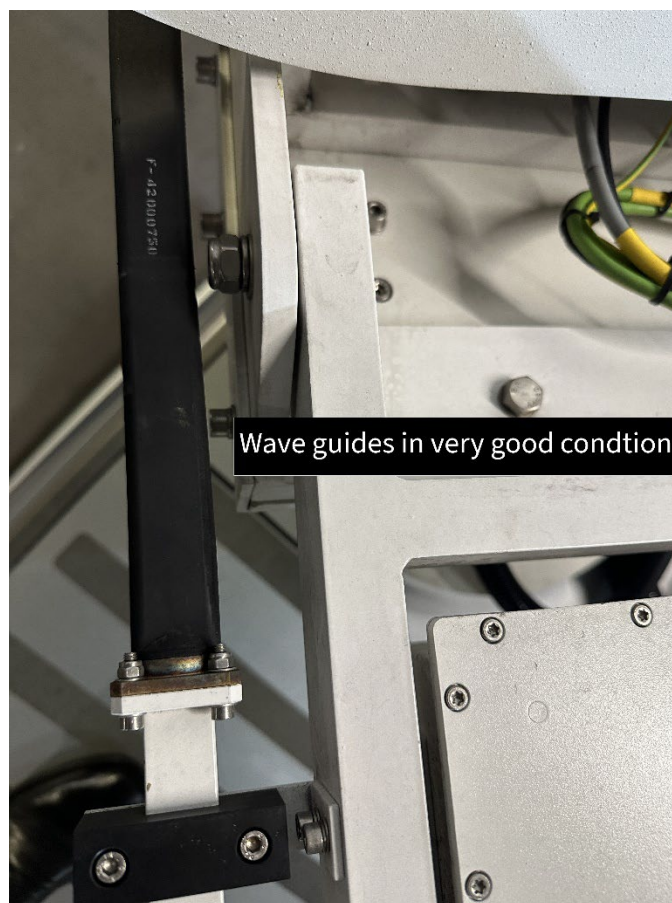
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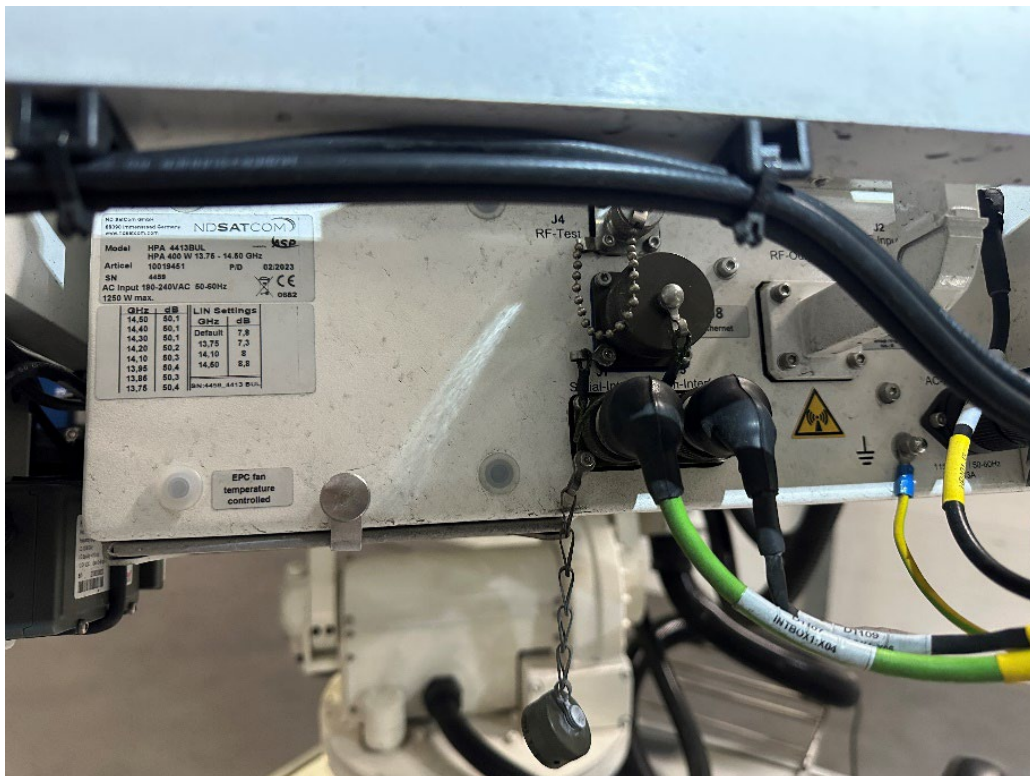
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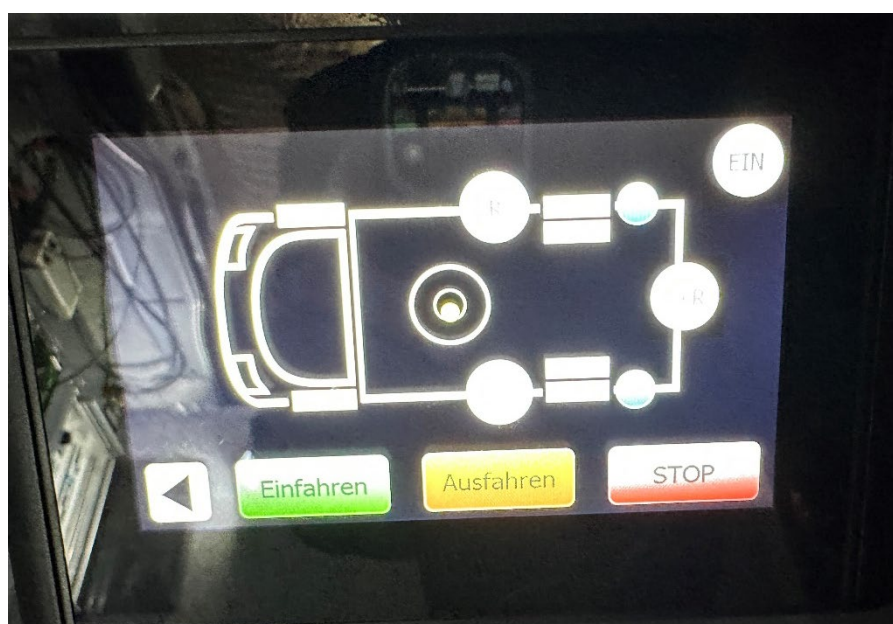


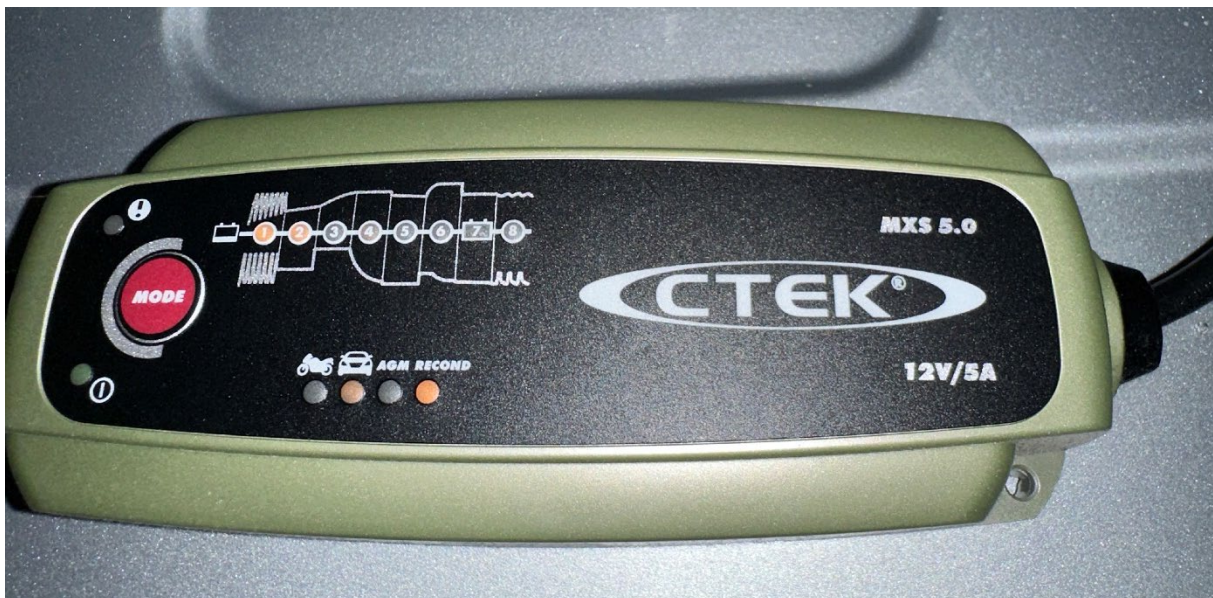
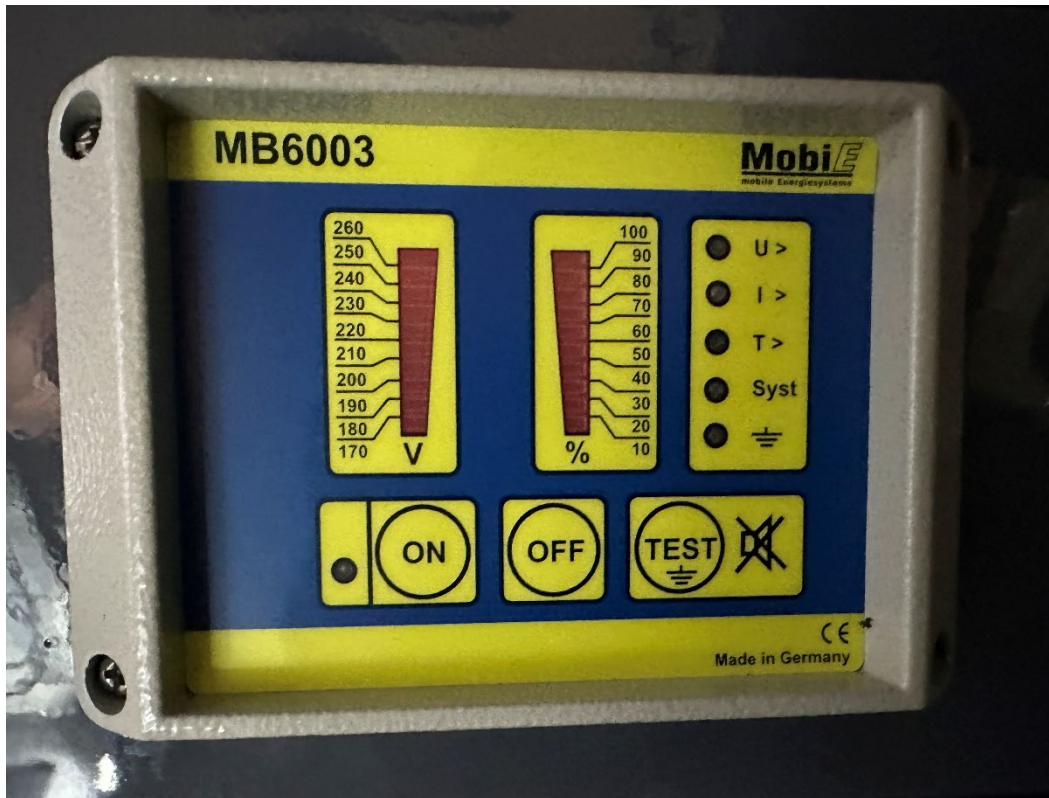
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HPA 1 - Parameter (2/2)

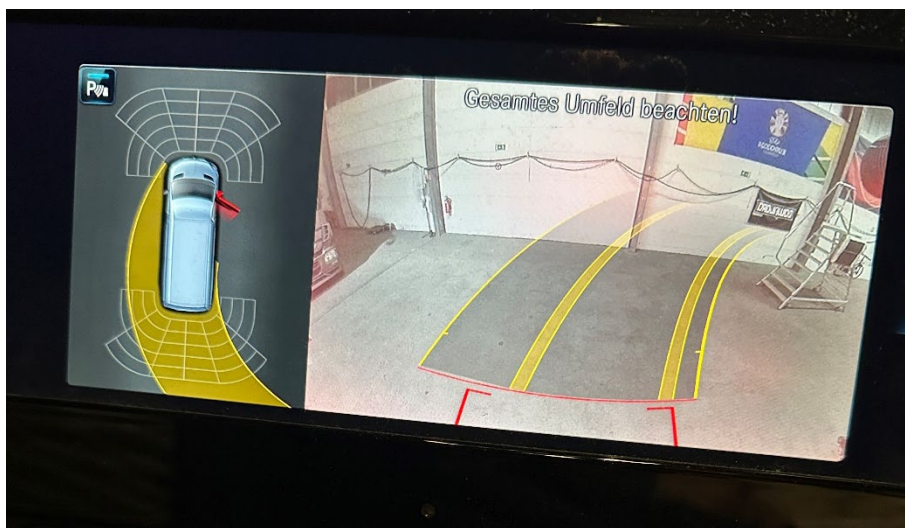
Output Power	402 W
Heater Current	1168 mA
Helix Current	0.6 mA
Helix Voltage	8.56 kV
Temperature	15.3 °C











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