



# SATELLITE NEWS GATHERING

## compactSNG

The ND SatCom small size *compactSNG* is designed as a fast news reporting vehicle for digital transmissions. Our objective was to create a smaller, stylish and cost-effective SNG system without compromising on functionality.

The resulting product is the *compactSNG*. Based on the Mercedes Vito platform, this vehicle represents the ultimate solution for customers requiring standard TV transmission capacity without comprehensive cutting capability and at an attractive price.

With the *compactSNG*, ND SatCom offers a cost-effective solution for events such as tennis tournaments, motor racing, other sports events, concerts, etc. The system consists of a SkyRAY Antenna Subsystem, a transmission section, and digital signal processing.

In the basic version, the *compactSNG* is designed for easy transmissions, just take an external video signal from a camera or other device which is plugged into the DVB unit and transmit it over satellite.

The antenna has an EUTELSAT type approval. The transmission and antenna systems are approved by CETECOM, which is essential for obtaining a transmitting license in Germany and also very useful for other countries.

### Key Features

- / Compact and flexible
- / SkyRAY Compact 1500 Antenna Subsystem
- / 400 W HPA or 50 W SSPA
- / DVB MPEG-2 or IP MPEG-4 via TDMA
- / A/V monitoring and laptop editor
- / Desk and seating for 2 operators
- / Independent power supply based on battery power, charged by strengthened alternator or external 230 V power

### Options

- / Automatic Satellite Access
- / Automatic Pointing System (APS)
- / Antenna Pointing Assistant (APA)
- / Fully remote controlled operation
- / 1+1 redundant



# TECHNICAL SPECIFICATIONS

## compactSNG

### VEHICLE SPECIFICATIONS

Vehicle	Mercedes Vito	Volkswagen T5
Maximum Weight	2,940 kg	3,200 kg
Wheelbase	3,200 or 3,430 mm	3,000 or 3,400 mm
Horse Power	109 or 150 hp	130 or 174 hp
Engine	Common Rail Diesel	Turbo Diesel
Coachbuilding	Mains power distribution, 2 hydraulic jacks	
Interior Modification	19" racks with side and rear covers, desk, non slip floor covering, fan forced rack ventilation, air conditioning 1.7 kW The interior of the vehicle is created for comfortable operation. The equipment rack is easy to dismantle in case of changes to the base vehicle.	

### TRANSMIT SPECIFICATIONS

Antenna Subsystem	SkyRAY Compact 1500	SkyRAY Compact 1500plus
Antenna Gain typ.	RX / 11.70 GHz typ. 43.0 dBi (min. 42.2 dBi) TX / 14.00 GHz typ. 44.5 dBi (min. 43.6 dBi)	
Antenna Mount Tuning Range	AZ +/-135° (optional +/-177°); EL +8° to +85°; POL +/-45° Accuracy AZ/EL 0.2° (100 km/h) Step size < 0.1°	
Frequency Range	Rx: 10.70 - 12.75 GHz; Tx: 13.75 - 14.5 GHz	
Power Amplifier	400 W TWTA EIRP approx. 68.5 dBW @ 14.00 GHz 50 W SSPA EIRP approx. 60.0 dBW @ 14.00 GHz	
Transmit Chain Configuration	400 W TWTA 1+0 50 W SSPA 1+1	400 W TWTA 1+1 50 W SSPA 1+1
DVB System	SD or HD MPEG-2 DVB-S / S2 or MPEG-4 IP over DVB; 4:2:0 / 4:2:2 QPSK Modulator or TDMA Modem	
Mains Power	Voltage 230 V battery powered or independent power generator	

### OPTIONS

4-Wheel Drive	n.a.	4 Motion 4-Wheel Drive Load capacity 100 kg less
Stabilising Jacks	2 hydraulic stabilising jacks	
A/V Monitoring Equipment	e.g. LCD display; waveform monitor; audio monitor	
Small Production Equipment	e.g. Laptop editor	
Communication	Intercom base station; wireless communication, GSM	
Monitoring & Control	Station operation with a user friendly MMI Antenna positioning via GPS and compass Station Preset Functions	
Fully Remote Control	Station operation from central Hub station incl. fully automatic pointing via TDMA carrier	

## // End-to-End Broadcast Solutions //

ND SatCom has strengthened the combination of its broadcast & media know-how and in-house manufactured component portfolio with its system integration capabilities.

We are Europe's leader in SNG systems, offering customers a one-stop integration service for both uplink and broadcast production SNG vehicles.

Engineering Excellence. Comprehensive Product Portfolio. Technical Innovations.



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