



SATELLITE NEWS GATHERING

productionSNG

The ND SatCom *productionSNG* is designed as a fast and flexible vehicle for live sports production and digital transmissions in SD or HD. It is also ideal as a temporary production studio and for uplinking medium-term outside events.

The system consists of a SkyRAY MAS antenna unit, an Antenna Control Unit (ACU), a transmission section, a receiving system, digital signal processing and a Monitoring & Control System (optional). Enough space is foreseen in the vehicle for the integration of audio, video and production equipment of up to 6 cameras. The antenna is EUTELSAT type approved. The complete uplink chain is certified according to the European R&TTE directive with the German notified body "CETECOM" for CE compliance.

Key Features

- / Simple operation of transmit equipment
- / Antenna diameters up to 1.9 m (diag.)
- / HPAs up to 750 W
- / L-Band interface to ODU
- / Two separate air conditioning units
- / Hydraulic jacks
- / A/V system design and full integration of production facilities
- / Rugged antenna mounting

Options

- / Automatic Satellite Access
- / Automatic Pointing System (APS)
- / Antenna Pointing Assistant (APA)
- / M&C System

// We are Europe's leader
in Satellite News Gathering Systems //



TECHNICAL SPECIFICATIONS

productionSNG

VEHICLE SPECIFICATIONS

Vehicle	Mercedes Sprinter	Mercedes Vario
Maximum Weight	5,000 kg / 5,300 kg	7,490 kg
Wheelbase	4,025 mm	4,250 mm
Horse Power	156 hp	177 hp
Cubic Capacity	2.7 l	4.25 l
Engine	Common Rail Diesel	Diesel
Coachbuilding	2 or 4 hydraulic jacks Independent generator up to 14 kVA	2 or 4 hydraulic jacks Independent generator up to 18 kVA
Interior Modification	Up to five 19" racks, desk for mixers and remote panels, non slip floor covering, fans for forced rack ventilation	
Air Conditioning	3.2 kW for operators room 1.7 kW for equipment racks	6.4 kW for operators room 4.6 kW for equipment racks

TRANSMIT SPECIFICATIONS

Antenna System	SkyRAY MAS 1900	SkyRAY Compact 1500plus
Antenna Gain typ.	RX / 11.70 GHz typ. 44.0 dBi (min. 43.7 dBi) TX / 14.00 GHz typ. 46.0 dBi (min. 45.0 dBi)	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° / + 135° Accuracy AZ/EL 0.2° Step size < 0.1°	
Frequency Range	Rx: 10.70 - 12.75 GHz; Tx: 13.75 - 14.5 GHz	
Power Amplifier	750 W TWTA EIRP ca. 73.5 dBW @14.00 GHz 400 W TWTA EIRP ca.: 70.5 dBW @14.00 GHz 50 W SSPA EIRP ca.: 62.0 dBW @14.00 GHz	400 W TWTA EIRP ca.: 68.8 dBW @14.00 GHz 50 W SSPA EIRP ca.: 60.1 dBW @14.00 GHz
Block Upconverter	L-Band to Ku-Band BUC integrated in HPA	
Transmit Chain Configuration	Single or fully redundant	
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	

OPTIONS

4-Wheel Drive	available	available
A/V Monitoring Equipment	Video monitors; waveform monitor; audio monitors	
Production Equipment	Audio mixer; video mixer, NLE system	
Camera Chains	Up to 6 camera chains	Up to 6 camera chains
A/V Controlling	Tally, GPI, Remote, Timecode, Network	
Communication	Intercom base station; wireless communication, GSM	
Antenna Pointing Assistant (APA)	Automatic antenna positioning via GPS, compass, and sat table data	
Automatic Pointing System (APS)	Fully automatic pointing system via TDMA carrier	
M&C System	Easy SNG operation via user friendly software with preset functionality	
Fully Remote Controlled	Fully remote SNG operation from central Hub station	
EUR.1 certificate	EUR.1 certificate can be issued on request	

// 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.

ND SatCom



ND SatCom
P.O. Box
88039 Friedrichshafen
Germany
Phone +49 7545 9390
Fax +49 7545 939 8780
info@ndsatcom.com
www.ndsatcom.com

AMERICAS
Phone +1 214 231 3400
Fax +1 214 231 3399
www.ndsatcom.com

MIDDLE EAST
Phone +971 2 443 6531
Fax +971 2 443 6650
www.ndsatcom.ae

CHINA
Phone +86 10 8479 5500
Fax +86 10 8456 4848
www.ndsatcom.com.cn

RUSSIA
Phone +7 495 781 7360
Fax +7 495 781 7360
www.ndsatcom.ru

INDIA
Phone +91 124 465 2400
Fax +91 124 465 2444
www.ndsatcom.co.in

TURKEY
Phone +90 216 399 1399
Fax +90 216 399 1222
www.ndsatcom.com.tr

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