



ND SATCOM

Satellite News Gathering XRACER

The ND SATCOM 4-wheel drive XRACER is a small, agile and cost-effective design that offers complete reliability when delivering real-time news reports and does not compromise on functionality. The transmission system is largely automated and engineered for perfect integration of all components with an attractive price tag.

The Digital Video Broadcasting (DVB) system within the vehicle has the ability to transmit all video signals directly over satellite with a choice of antennas from the SKYRAY family and an additional option Ka-band transmission. The uplink can be remotely controlled or fully automated using our TDMA based satellite router SKYWAN and the transponder booking tool Media Fleet Manager (MFM). The IP satellite interface can be used for video streaming as well as for independent voice and Internet connection.

ND SATCOM's XRACERs are based on standard vehicles that are modified to suit the requirements of the contribution system and provide comfort for the user.

Customers can choose from the range of field-tested and proven models such as VW Amarok, Toyota Land-cruiser or Hilux, or select their own favourite vehicle.

The XRACER is available with a Satcom-On-The-Pause (SOTP) but also with a Satcom-On-The-Move (SOTM) antenna system that allows you to transmit data, voice and video footage up to 7 Mbps from the first second while driving, as well as if you have no GSM/LTE or microwave connectivity (e.g. in rural areas, if GSM/LTE is overbooked). No dish needs to be deployed and adjusted.

KEY FEATURES

- SKYRAY antenna system with Eutelsat Type Approved Automatic Pointing
- CETECOM-approved transmission and antenna systems
- Various SOTM antenna choices for on-the-move transmission of voice, data and video
- IP or DVB MPEG-4 SD and HD coding
- A/V monitoring and laptop editor

TECHNICAL SPECIFICATIONS

VEHICLES

Mercedes X-Class	Up to 3.2 t (payload max. 1.064 kg)
VW Amarok	Up to 3.04 t (payload max. 1.151 kg)
Land Rover Defender	Up to 3.05 t (payload max. 1.000 kg)
Toyota Landcruiser	Up to 2.99 t (payload max. 810 kg)
Toyota Hilux	Up to 2.69 t (payload max. 720 kg)
and many others...	

VEHICLE MODIFICATION

Independent super-silent battery power and/or external or vehicle engine-driven generator, 2 manual or hydraulic jacks, air-conditioned 19" equipment racks, operator's area with monitors and desk.

ANTENNA SYSTEMS FOR SOTP

SKYRAY Light 1200	1.2m dish	1+0	Up to 100W SSPB
SKYRAY Compact 1500	1.5m dish	1+1	Up to 100W SSPB
		1+0	Up to 750W HPA

Antenna systems available with dual Ka-/Ku-band feed switch system

ANTENNA SYSTEMS FOR SOTM

RAYSAT ER7000	TX Gain 36dBi	Up to 100W SSPB
MKu40	TX Gain 35.4dBi	Up to 40W SSPB
MKu60	TX Gain 36.8dBi	Up to 40W SSPB
Thinsat300	TX Gain 33.7-36.7dBi	40W (int.), max. 100W

BASEBAND EQUIPMENT

DVB System	SD/HD, MPEG-2/MPEG-4, 4:2:0/4:2:2, DVB-S2/TDMA
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/LTE

MONITORING & CONTROL

System operation via user-friendly MMI at local PC or from central station via IP Satellite Router. EUTELSAT Type Approved Automatic Pointing System.

IP SATELLITE ROUTER

SKYWAN TDMA Modem for IP connection to Master Control Room (MCR) for video streaming, file transfer, remote control of uplink system, Intranet/Internet access, voice connection and cloud applications.

MEDIA FLEET MANAGER

The ND SatCom MFM is an easy-to-use management tool to plan, schedule and book DVB and IP uplink sessions. Remote stations can operate automatically and start their transmission at a given schedule.

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