The SWE DISH® 150KM Drive-Away is a unique concept for vehicle mount antenna systems. During transportation, you see an elegant looking car-box on top of a SUV or a Van. At site, the antenna deploys gracefully, and automatically points the antenna at the selected satellite. Within 10 min you are on the air, transmitting your DSNG contribution back to base - from a comfortable working environment free of HPA generated noise and heat.

APPLICATIONS
The SWE-DISH 150K Drive-Away system is your choice for vehicle mount Ku band high data-rate and high power DSNG applications, from anywhere. Lower datarate/power applications are also common: Commercial & military satcom from remote sites - also at military X band, with Step Tracking.

INTEGRATION CAPABILITIES
The rooftop integration capabilities are unsurpassed – anything from a 16W transceiver, 2 x 50W SSPA to the really high power configuration – phase combined 400W TWTA’s plus an integrated AirCon unit - beaming up to 72 dBW EIRP towards the bird.

CAPABLE ANTENNA
The high performance elliptical 1.5 m Gregorian offset antenna is of course the heart of the 150KM Drive-Away – the dual optics and accurate reflector surfaces (carbon composite) provide exceptional low sidelobes and good cross-polar performance. The antenna mount is a large diameter turntable, totally backlash free in both elevation and azimuth.
EASE OF USE
Operation is extremely easy if the GPS / Flux option is fitted - get to the site, jacks down, press 'Deploy' on the full featured SWE-DISH ACU3000 keyboard, select 'Satellite' and press 'Locate'. Lean back and watch the antenna peak up on the selected satellite – maybe via the pod-mounted video camera/spotlight.

The proven Easy Control & Monitoring (ECM) unit helps the not-so-well-trained operator to configure the system – set up the MPEG2 encoder, configure the modulator, select pre-set frequency and power level – followed by step-by-step support during line up towards the satellite.

KEY FEATURES
- Fits any SUV or Van, for elegance, comfort and low drag
- All equipment is totally incapsuled during transportation
- Wide choice of configurations – automatic antenna alignment with GPS/Flux, step tracking, single thread, redundant, phase combined HPA’s, integrated AirCon system and de-icing
- High EIRP operation thanks to exceptional antenna performance
- Easy and cost effective vehicle integration. The load is spread over the vehicle roof - no need for expensive internal reinforcements
- Granted FCC license, Intelsat/ Eutelsat type compliant, ETSI/CTR 030 approved

SPECIFICATIONS: SWE-DISH® DRIVE-AWAY 150KM

ANTENNA PERFORMANCE
- **Antenna model no**: 150K EDD
- **Antenna concept**: Gregorian dual offset antenna, 1.5m elliptical main reflector, folding feedarm with fixed subreflector
- **Feed system**: 2 port linear polarisation, 3 port optional
- **Receive frequency**: 10.7 - 12.75 GHz
- **Receive gain**: 43.2 dBi at 11.7 GHz
- **Antenna noise temp**: 23K at 20° elevation
- **G/T with 75K LNB**: 12.75 - 14.5 GHz and DBS band
- **Transmit frequency**: 13.75 - 14.50 GHz, optional
- **Transmit gain**: 45.0 dBi at 14.25 GHz
- **Crosspolar rejection**: > 35 dB
- **EIRP capability**: 66 dBW with single thread 150W HPA, 72 dBW with phase combined 400W HPA

ANTENNA DRIVES AND TRAVEL RANGES
- **Azimuth range**: Up to +/- 183°
- **Azimuth travel rate**: High speed: 3°/sec; Slow speed: 0.3°/sec, adjustable
- **Elevation range**: 5° to 90° continuous, depending on installed azimuth range
- **Elevation travel rate**: High speed: 3°/sec; Slow speed: 0.3°/sec, adjustable;
- **Polarisation range**: +/- 100° skew range, <1° accuracy, motor driven
- **Deployment and stow**: Automatic, by command from Antenna Control Unit ACU3000
- **Antenna pointing**: Automatic with GPS/Flux option, manual jog

ENVIRONMENTAL SPECIFICATION
- **Operational wind speed**: ≈ 25 m/s, gusts to ≈ 30 m/s
- **Survival wind speed**: ≈ 36 m/s
- **Survival wind speed, ≈ 200 km/h stowed**: Complete antenna as well as pod floor
- **Ambient temperature**: Operational – 20° to + 55°C, survival – 40° to +60°C
- **Rain**: Operational and survival in heavy rainstorms
- **Relative humidity**: 0% to 100% with condensation
- **Solar radiation**: 1000 W/m²
- **Radial ice, survival**: 2.5 cm on all surfaces
- **Corrosive atmosphere**: As encountered in coastal regions or heavy industrialised areas

DSNG/DATACOM SYSTEM CAPABILITIES
- Audio/Video inputs & processing support all industry standards (DVB/ HDTV)
- QPSK/8-PSK modulation, SCPC or MCPC, data rates 1.4 to 60 Mbps
- All commonly used coding types and rates are implemented

TRUCKS & VANS
Wide ranges of fully integrated vehicle solutions are available for the world market. We will transform the vehicle into a high quality environmentally conditioned working environment for simple transmission purposes or combined with multi-camera facilities with onboard editing and playout for outside broadcast operations.

All vehicles are internally lined and insulated and fitted with racking, lighting, AC & DC power systems and options for power generators, stabilisers, air-conditioning, heating and external interfaces.

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