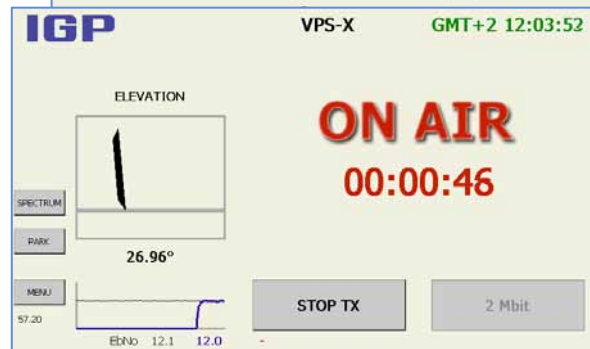
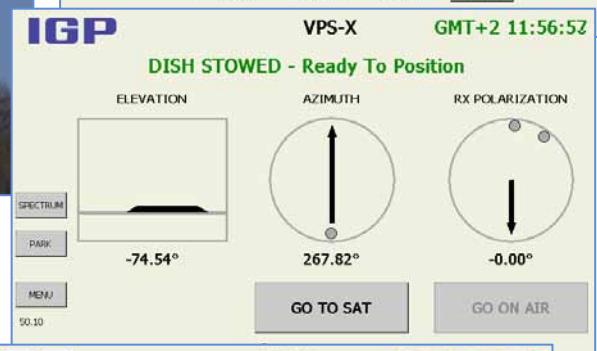


VPS-X Gyro-150 SNG DVB-S2 SD/HD SNG



Redefining User Friendliness, Speed, Precision and Reliability.

The VPS-X is the first vehicle mounted SNG system that has redundant pointing technology and does not have to look for the satellites. It knows where they are!

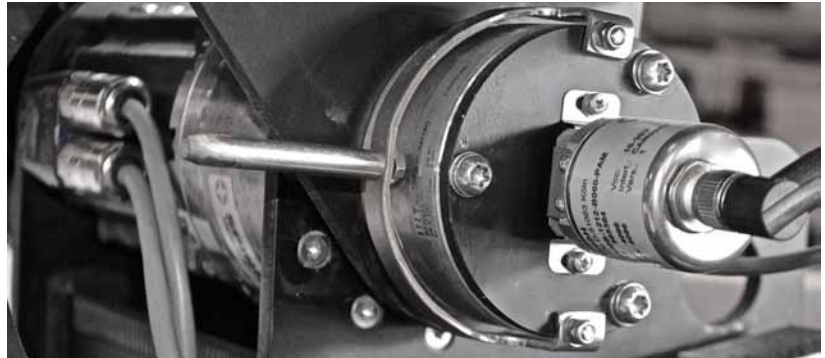


The VPS-X is particularly suited when high speed and high reliability are required in critical situations, such as Special Operations, News and Prime-TV program delivery

Motion Control

Its GPS supported Gyro system, takes the dish straight to the desired satellite on initial movement. 30 seconds is all it takes to deploy and point the VPS-X with its powerful Hybrid Motors. The design results in the highest wind loading capability in the industry.

Innovative Hybrid motors backed-up by absolute encoders mounted BEFORE the gear box rather than BEHIND is another first that increases precision, speed and reliability. Brakes are applied automatically when the power is switched off. When the antenna is not powered and the antenna still needs to be brought in position or stored, the antenna can simply and quickly be moved by releasing the brakes manually.



Indoor Unit

A 1 U 19" rack mount redundant power supply with Gyro; Canbus to IP converter comes standard.



Touch Screen Controller

A highly informative 7" IP 54 weatherized touch screen integrated with the VPS-X makes selecting and bringing up a carrier far easier than ever before. It can be easily installed in any working environment. Depending on the application different personalities can be chosen ranging, from fully automated use to "expert mode" for operators using multiple satellites.

The controller also houses the embedded software on which the various processes are run.



SD/HD DVB-S2 Transmission

State-of-the-art SD/HD MPEG-2 / H.264 Encoding with DVB-S2 modulation controlled through the same touch screen, single thread or redundant with very user-friendly interface through VPS-X antenna controller. BISS encryption is included. RX and TX settings can be stored and recalled to very quick access to any satellite slot.

Uplink

BUC LO Frequency (MHz)	12800
Uplink Frequency (MHz)	14050.00
Symbol Rate (kBaud)	27000
Data Rate (kBaud)	44867
Bandwidth (kHz)	32400

Modulation Mode
 DVB-S DVB-S2

Constellation
 QPSK 8PSK

FEC Rate
 1/2 3/5 2/3 3/4
 4/5 5/6 8/9 9/10

Done

Carrier OFF

CW

MODULATION

SET

+ -8.0 dBm

- 52.0 dBm

CARRIER OFF

H/VD-02 H.264 SD/HD Decoder 172.29.252.199

LNB LO Frequency (MHz)	11300
Satellite Frequency (MHz)	12677
Symbol Rate (kbaud)	1737

LNB Voltage
 Off 13V 18V

LNB 22 kHz
 Off On

DISEQC
 Off Port A Port B Port C Port D

BISS
 Off BISS 1 BISS E
BISS 1 Key (12 digits) 000000000000

Done

Set Get



Complete DVB-S2 TX/RX VPS-X System

Useful Options

Integrated Spectrum Analyzer

A 10 kHz – 4000 MHz analyzer may be part of the system sharing the screen or using its own 7" screen that then can provide redundant antenna controls.

Virtual Private Satellite Frequency Management System

Allows control of IP Modem and DVB-S2 capacity, including uplink power control and bookings. Low CAPEX allows for use even by small networks.

Park Assist

Park Assist allows the operator, in a highly effective way, to locate a place with free line of sight to the satellite. When arriving in a built-up area the operator selects Park Assist. A monitor on the dashboard will now show camera picture of the exact location of the satellite. When there is an obstacle the operator can move the vehicle to a location with free line of sight. Even when the vehicle is moving and turning the monitor will show the actual satellite position. When the operator has found a place where the hairline on the monitor sees the skies (thus no obstacle between SNG and satellite) he can disengage Park Assist and switch to fine tuning to the satellite.



Service Kit

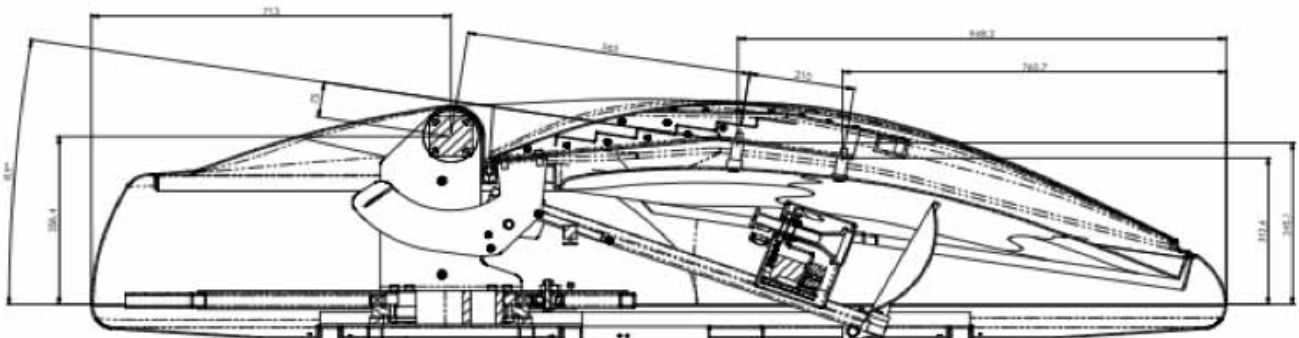
Since many of our systems are used in remote environments, we offer service kits that include critical components and service manuals.

24/7 Worldwide Support

IGP offers world-wide 24/7 support to its customers.

Block Upconverter / Amplifier Combination

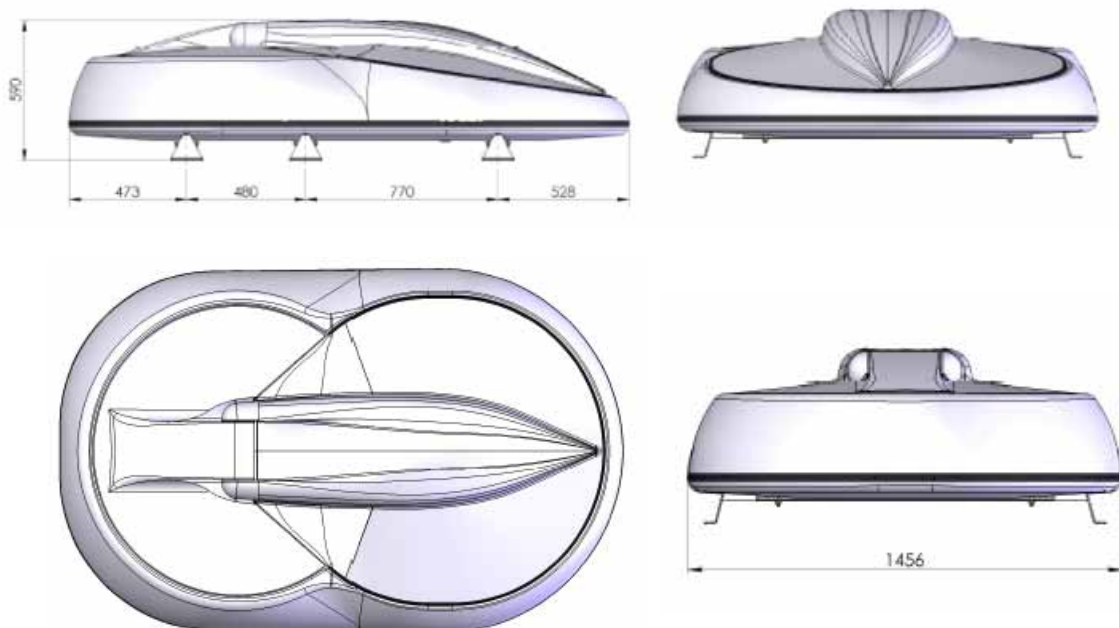
Solid State Amplifiers ranging from 4 to 750 Watt, single chain or redundant are available. Since the amplifiers are mounted on the turntable, no rotary joints are necessary and waveguide runs can be kept short.



Specifications

Antenna subsystem

Type:	Gregorian offset dual optics
Frequency range:	13.75 – 14.5 GHz TX 9.75 – 12.75 GHz RX
Gain:	44.3 dBi TX 42.8 dBi RX
Output power:	48 – 72 dBW, according to configuration
Crosspolar:	> 35 dB
VSWR:	< 1.2
Half power beamwidth:	1.2°
G/T:	23.1 dB/K
Maximum output power:	16 Watt 56.0 dBW 25 Watt 57.6 dBW 40 Watt 60.2 dBW 80 Watt 63.0 dBW 400 Watt 69.5 dBW 750 Watt 72.0 dBW
Panic buttons:	Separate interrupt contacts
Antenna not-in-stow indication:	Form-C relay on controller
Controller type:	Embedded software Touchscreen and remote
Interface with antenna controller:	DC Power cable, RS-428 cable
Outdoor system weight:	135 kg excluding RF equipment
Outdoor environment:	100% moist, must operate in rain, snow, dust and salt air -40 to + 55° Celsius
Indoor environment:	Humidity 5 to 95%, non-condensing, Temperature -15 - + 45° C.
Maximum wind-loading, operational:	120 km/h deployed, 200 km/h stowed
Automatic positioning:	Multi-GPS supported gyroscope, DVB-S2 tuner and modem interface, TLE input
Elevation and heading accuracy:	0.2° elevation and azimuth
Polarization:	Automatic, accuracy 0.2°
Range:	+/- 190° on Azimuth level, 5 –90° Elevation
Deployment and pointing:	Approx. 30 seconds
Secondary satellite option:	Points accurately to any satellite within 10 seconds from primary
User interface:	Touchscreen with VNC
Manual control:	Via controller or, on power failure, by hand releasing motor brakes
Power requirement:	110 – 240 Volts – 3A
Indoor system weight:	5 kg



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