

Dawson GC-Zero Lite Broadcast Ultra Fast Deploy Vehicle System

Dawson GC-Zero answers the needs of communications professionals with an ultra fast pointing system

The very low profile (220 mm) antenna ensures that vehicle heights are not compromised by the fitting of the communications system

Fastest pointing in the industry gives virtually instant connection



Applications

Broadcast for IP TV and IP Radio with MPEG 4 coders for Breaking News
Inmarsat Terminal and ISDN replacement

Functionality

With fully automatic pointing the system is simple to set up and use. A one button user interface requires no special training and gives almost instant connection (less than 1 minute typical !)

With built in inclinometer, GPS receiver and DVB receiver built in and fully controlled the operator can concentrate on other important tasks

Design

The system has been designed taking into account Dawson's extensive experience to make the solution light, rugged and fast to deploy but while still retaining the Dawson reputation for quality and value with the system costing a fraction of competitive equipment

Ease of use

The system operates from Dawson custom software that is pre programmed to search for the required satellite using the built in DVB receiver. The operational interface is a simple one button on the control panel, press once to deploy and once again to stow !

Ease of use, speed and reliability were the main drivers for the design allowing broadcasters to replace expensive to run Inmarsat systems for IP Radio and TV applications

Another ' fit and forget ' solution with all parts weather proofed with plastic housings or where exposed manufactured from stainless steel

Compatibility

With the system so light and compact it can be fitted to virtually any base vehicle. It is particularly suited to small vehicles or where space is tight due to its small size and weight. The small dimensions and light weight make the system easy to fit in many different configurations

Dawson GC-Zero Lite Broadcast Ultra Compact Vehicle System

- O Ultra Fast Pointing - Less than One Minute Typical !
- O Very Low Profile
- O Fully Automatic



Specification

Section	Item	Specification
Power requirement	Prime power	12 V DC
	Power consumption	Approx 2 A @ 12 V
Physical	Stow height	220 mm maximum
	Length x width	1150 mm x 800 mm
Weight	System weight	< 18 Kg roof mount < 1 Kg indoor equipment
Operation	Pointing time	< 1 minute typical
	Pointing system	Fully automatic on DVB carrier Simple control panel with display
Environmental	Temperature (use)	Minus 20 to Plus 50 Centigrade
	Wind speed	50 Kph Operational 160 Kph stowed
	Rain	Fully waterproof
Construction	Antenna system	Aluminium and stainless steel
	Reflector	SMC
	Base	Powder coated aluminium
Positioner	Elevation range	10 - 70 Degrees fully motorised
	Azimuth range	180 degrees +/- fully motorised
	Polarisation range	180 degrees +/- fully motorised
Performance	BUCK size	1,2,3,4,6,10 W possible
	Data rate TX	64 Kb - 3 Mb
	Data rate RX	512 Kb - 25 Mb
RF	Antenna Gain	TX 39.0 @ 14.25 GHz
		RX 37.4 @ 11.70 GHz
	Frequency	TX 13.75 - 14.50 GHz
		RX 10.70 - 12.75 GHz
	Approvals	Intelsat and Eutelsat
	Flange	Circular waveguide, optional OMT
	Antenna size	80cm nominal
Feed	2 port linear Ku band	
Options	Power Pack	Vehicle inverter system
	Wireless	Built in wireless access point
	Wireless extender	Battery powered wireless extender pack

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