

Dawson GC-Zero 70 KaSat Ultra Compact KA-SAT vehicle system

The GC-Zero 70 K solves the needs of Broadcast professionals with a professional antenna system

The very low profile (240 mm) antenna ensures that vehicle heights are not compromised by the fitting of the communications system

Fit and Forget ' reliability with long, reliable proven quality in the harshest of conditions



Applications

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

Functionality

With fully automatic pointing the system is simple to set up and use. A simple user interface requires no special training but gives the operator full control if required.

A choice of controllers gives single button auto find on all and with options of manual control, two different displays and diagnostic capabilities

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 embedded software that is pre programmed to search for KA-SAT required satellite interfacing and controlling the modem. The operational interface is a button

Optionally the controller also provides manual control of the antenna if required as well as diagnostics to assist with the unlikely event of fault finding. There is even an option of a hand held controller that can be operated from outside the vehicle connected via a CAT 5 cable

Compatibility

With the system so light and compact it can be fitted to virtually any base vehicle. Customers have already chosen small hatchbacks to articulated trailers to fit the systems to. Its small surface area and wide base plate make the interface easy and fast to install

Dawson GC-Zero LP Broadcast Ultra Compact Vehicle System

- O High data rates (10 Mb TX)
- O Light weight and rugged
- O Very Low Profile
- O Fully Automatic



Specification

Section	Item	Specification
Power requirement	Prime power	12 V DC (220 V AC optional)
	Power consumption	Approx 100W
Physical	Stow height	240 mm maximum
	Length x width	1150 mm x 800 mm
Weight	System weight	< 25 Kg roof mount
		< 4 Kg indoor equipment
Operation	Pointing time	<2 minute typical
	Pointing system	Fully automatic Manual over ride and emergency stow
Environmental	Temperature (use)	Minus 30 to Plus 50 Centigrade
	Wind speed	75 Kph Operational 160 Kph stowed
	Rain	Fully waterproof in use
Construction	Antenna system	Aluminium and stainless steel
	Reflector	ViaSat OEM part
	Base	10mm aluminium plate
Positioner	Elevation range	10 - 90 Degrees fully motorised
	Azimuth range	200 degrees +/- fully motorised
	Polarisation range	Automatic switching of polarity
Performance	BUC size	3 W standard ViaSat part
	Data rate TX	100 Kb - 20 Mb
	Data rate RX	100 Kb - 40 Mb
RF	Antenna	Eutelsat KaSat / ViaSat 1 in progress
	Frequency	KaBand
	Approvals	Eutelsat KaSat / ViaSat 1 in progress
	Antenna size Feed	70cm nominal Circular Polarised KaBand

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