

## Dawson GC-Zero LP Broadcast Ultra Compact Vehicle System

Dawson GC-Zero answers the needs of communications professionals with a low profile 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

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 simple user interface requires no special training but gives the operator full control if required.

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 three button One for deploy, One for stow and an emergency stop. The display also provides a progress meter and a Eb/No meter so that pointing progress can be monitored from the main screen  
The software also provides manual control of the antenna if required as well as detailed diagnostics to assist with the unlikely event of fault finding. There is even an option of a manual hand held controller to give complete redundancy

### 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 Light weight and rugged
- O Very Low Profile
- O Fully Automatic



### Specification

| Section           | Item                  | Specification                                      |
|-------------------|-----------------------|--|
| Power requirement | Prime power           | 110 / 220 V AC 50 / 60 Hz                          |
|                   | 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                                 |
|                   |                       | < 10 Kg indoor equipment                           |
| Operation         | Pointing time         | <5 minutes typical                                 |
|                   | Pointing system       | Fully automatic on DAB carrier<br>Manual over ride |
| Environmental     | Temperature ( use )   | Minus 20 to Plus 50 Centigrade                     |
|                   | Wind speed            | 50 Kph Operational 160 Kph stowed                  |
|                   | Rain                  | Fully waterproof in use                            |
| Construction      | Antenna system        | Aluminium and stainless steel                      |
|                   | Reflector             | SMC  |
|                   | Base                  | Large surface area aluminium                       |
| Positioner        | Elevation range       | 10 - 90 Degrees fully motorised                    |
|                   | Azimuth range         | 180 degrees +/- fully motorised                    |
|                   | Polarisation range    | 180 degrees +/- fully motorised                    |
| Performance       | BUCK size             | 1,2,3,4,6 W possible                               |
|                   | Data rate TX          | 64 Kb - 5 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 Outlast                               |
|                   | Flange                | Circular waveguide, optional OMIT                  |
|                   | 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             |

**Dawson**