

# Hiltron – New HSACU Antenna control unit for three axis motorized control of DSNG antennas.



Hiltron is a proven and established supplier of SATCOM specialized controller products, with a rich history of unique and reliable controllers, including the Hiltron HACU three axis antenna controller for rotatable stationary antenna systems, the HCS3 flexible modular SATCOM controller, and the HDCU de-ice controller. All these products utilize modern M&C interfaces via a simple to use Web browser interface.

## HSACU Features:

Hiltron's new **HSACU** Antenna DSNG control unit supports three axis motorized DSNG antennas up to 2.4m, with separate adaptation to the motors for Az, El and Pol. Control is accomplished by software, without turning any potentiometer or setting any internal jumpers.

Supports internal DVB-S/S2 tuner for verification of the satellite via carrier recognition.

Determination of heading through fluxgate compass or/and GPS compass.

Remote control via Web browser.

Compact 19"/2RU chassis.

Local user interface through push buttons and colour touch panel display at the front of the unit.

Fully automated and fast auto-acquisition of accessible satellites (less than 5 minutes). Even finds satellite without a compass through advanced search method.

Compensation of truck inclination in two axes.

Works with resolvers, potentiometers, inclinometers and DC motors.

## HSACU Options:

Satellite verification by beacon receiver.

## HSACU Typical Applications:

Complete three axis antenna control for SNG vehicles and similar mobile applications.



The new Hiltron **HSACU** - SNG antenna control unit

Hiltron's latest product and the future flagship of our controller series is the **HSACU** DSNG controller for control of manufacturer independent motorized DSNG antennas providing fully automated auto-acquisition. The Hiltron **HSACU** controller is unique on the market for several reasons and a must for any new DSNG truck or an ideal replacement of an existing control system.

The Hiltron **HSACU** uses a modern touch screen to allow navigating the control unit locally, or, alternatively push buttons can be used. All parameters are also easily accessible via a Web-interface.

Heading		Position		Current SAT
Fluxgate:	64.1	Longitude:	9.42°	Intelsat 10
GPS:	66.2°	Latitude:	48.96°	Manual
True:	65.30°			Fast
<b>Azimuth</b>	<b>Elevation</b>	<b>Polarisation</b>		Select Satellite
Current:	Current:	Current:		Show Status
162.30°	28.4°	89.82°		
Target:	Target:	Target:		
159.20°	28.4°	89.86°		
Drive:	Drive:	Drive:		
69.22°	75.42°	87.65°		

  

Current SAT	Select Mode	Current SAT	Window	Current SAT
Intelsat 10	Go to 19.2° - Astra 1L	Astra 1L	6.0°	Astra 1L
Manual Fast	Transp: 12.6330 GHz H 22.000 MSymbols Transp: 12.5240 GHz V 22.000 MSymbols	Manual Fast	-1.0°	Manual Fast
Select Satellite	Search Mode:	Select Satellite	Heading	Select Satellite
Show Status	Window Search Full SKY	Show Status	GPS 66.2° Fluxgate 64.1°	Show Status
	CCW CW		-0.5° 0.0° +0.5°	
			Start Search 1	

Illustration: Menu of the new **HSACU** antenna control unit interface

### Specifications

#### Electrical

Mains power requirements of Control Logic: 85-245V; 47-63Hz;  
Motor voltage max DC 24V  
Angle resolution 0.1° Az/EI, 0.5° Pol

#### M&C- Parameters

Monitoring of parameters: Angles, limits, satellites

#### M&C - Interfaces

LAN interface Ethernet / IEEE802.3  
Data transfer rate: 100 Mbit/s  
Connector: RJ45  
Communication: Web

#### Mechanical / Environmental

Size: 483x89x350 (width x depth x height in mm)  
Weight: 4,5Kg.

#### Temperature:

- Operating: +5°C to +45°C  
- Non operating -40°C to +70°C

CE safety EN60950-1 / UL 60950  
CE EMC EN 55022 Class B  
Emissions EN 61000-3-2, -3  
Immunity EN 50082-1

#### DVB-S/S2 receiver

DVB-S/S2 frequency range 950 to 2150 MHz

#### Additional features

Local power switch on/off for easy access  
at the front panel

### Order Information

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