

# ADVENT

## NewSwift HD 2.4m

### Motorized Antenna

The Advent NewSwift HD 2.4m antenna is the latest addition to the current NewSwift range. The lightweight, roof-mounted, drive-away antenna design meets the highest standards of reliability and functionality for today's broadcast and military market. All three motorized axis work simultaneously to provide on-air capabilities of less than five minutes.

The weatherproof housing, mounted close to the feed, minimizes waveguide loss and protects the power amplifier and electronics.

### Benefits

- Tracking option with beacon receiver
- Designed to work with the ACU5000 series antenna controller
- Available in any color scheme



## Key Features

- Less than five minutes to deploy
- Interchangeable C, X, and Ku Band feed cartridge
- Full three axis simultaneous motorization
- Eutelsat, Intelsat and Arabsat compliant
- GPS based auto satellite acquisition option

## Typical Applications

- Newsgathering
- Event Coverage
- Sports Coverage
- Secure SATCOM

## Common

### Physical

- Elevation Adjustment:
  - 6° to 95°
- Azimuth Adjustment:
  - +/- 180°
- Polarisation Adjustment:
  - Linear +/- 90°, circular none
- Platform Mount:
  - Elevation over Azimuth
- Configuration: Prime Focus
- Feed Type:
  - Offset
- Weight:
  - 220kg (485 lbs.)
- ITAR Status:
  - ITAR Free

### Environmental

- Operating Temperature:
  - -30°C to 60°C (-22°F to 140°F)
- Transport Temperature:
  - -40°C to 70°C (-40°F to 158°F)
- Humidity:
  - 0 - 100%
- Operating Wind Speed:
  - 75 Kmph (46 mph)
- Degraded Wind Speed:
  - 100 Kmph (62 mph)
- Deployed Survival Wind Speed:
  - 115 Kmph (71 mph)
- Stowed Survival Wind Speed:
  - 180 Kmph (111 mph)

### Power Requirement

- 90 - 264V AC (supplied with external half rack width PSU)

## C-Band

### Frequency

- Tx Frequency Band (CP):
  - 5.85-6.425 GHz
- Rx Frequency Band (CP):
  - 3.625-4.2 GHz
- Tx Frequency Band (LP):
  - 5.85-6.65 GHz
- Rx Frequency Band (LP):
  - 3.4-4.2 GHz

### Gain

- TX Gain:
  - 42.1 dBi

### G/T

- 3.8 GHz, 16.3 dB/K

### Polarization

- Polarization Tx – RHCP or LHCP configurable
- Rx:
  - Orthogonal to Tx
  - Optionally Linear
- Axial Ratio (CP)
  - <1.3 dB (Tx)
- Cross Polar isolation <27 dB

### Standards

- MIL-STD-188-164B
- EUTELSAT EESS-502
- ITU-R S.465.5 and S.580-6
- FCC 25.209

## X-Band

### Frequency

- Tx Frequency Band:
  - 7.9-8.4 GHz
- Rx Frequency Band:
  - 7.25-7.75 GHz

### Gain

- TX Gain:
  - 43.6 dBi

### G/T

- 7.5 GHz, 22.5 dB/K

### Polarization

- Polarization Tx:
  - RHCP or LHCP configurable
- Rx:
  - Orthogonal to Tx
- Axial Ratio:
  - Tx <2 dB
  - Rx <1.21 dB

### Standards

- MIL-STD-188-164B

## Ku-Band

### Frequency

- Tx Frequency Band:
  - 13.75-14.5 GHz
- Rx Frequency Bands:
  - 10.7-12.75 GHz

### Gain

- TX Gain:
  - 49.3 dBi

### G/T

- 11.7 GHz, 26.0 dB/K

### Polarization

- Polarisation:
  - Linear H/V Tx orthogonal to Rx
- Cross polar isolation:
  - 35 dB

- ITU-R S.465-5 and S.580-6
- FCC 25.209 with 25.212
- INTELSAT IEES-601
- EUTELSAT EESS-502
- MIL-STD-188-164B

