

# 1200

# iNetVu®

by C-COM Satellite Systems Inc.

## TECHNICAL SPECIFICATIONS

The iNetVu® 1200 Drive-Away Antenna is a 1.2m auto-acquire satellite antenna system which can be mounted on the roof of a vehicle for Broadband Internet Access over any configured satellite. The system works seamlessly with the iNetVu® 7000C Controller providing fast satellite acquisition within minutes, anytime anywhere.



### Features

- One-Piece offset feed, prime focus, SMC reflector with a back cover
- Heavy duty platform for up to 11kg (25 lbs) RF Electronics (LNB & BUC)
- Designed to work with the iNetVu® 7000C controller
- Works seamlessly with the world's most popular commercially available satellite modems
- 3 Axis motorization
- Supports manual control when required
- One button, auto-pointing controller acquires any Ku-band satellite within 2 minutes
- Locates satellites using the most advanced satellite acquisition methods
- Supports Prodelin 1.2m antenna, Model 1132/1134
- Standard 2 year warranty

### Application Versatility

If you operate in Ku-band, the 1200 system is easily configured to provide instant access to satellite communications for any application that requires reliable and/or remote connectivity in a rugged environment. Ideally suited for industries such as Oil & Gas Exploration, Military Communications, Disaster Management, SNG, Emergency Communications Backup, Cellular Backhaul and many others.

**C-COM**  
SATELLITE SYSTEMS INC.

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### Mechanical

|                        |   |
|------------------------|---|
| Reflector              | 1.2m Prime Focus, Offset Feed, SMC <sup>(1)</sup> |
| Platform Geometry      | Elevation Over Azimuth                            |
| Deployment Sensors     | GPS antenna<br>Compass ± 2°<br>Tilt sensor ± 0.1° |
| Azimuth                | Full 360° in overlapping 200° sectors             |
| Elevation              | 0 - 78° <sup>(2)</sup>                            |
| Polarization           | ±90°  |
| Elevation Deploy Speed | Variable 2°/sec typ.                              |
| Azimuth Deploy Speed   | Variable 15°/sec Max., 10°/sec typ.               |
| Peaking Speed          | 0.2°/sec  |

### Electrical

|                                 |  |                          |
|---------------------------------|--|--------------------------|
| Rx & Tx cable                   | 2 RG6 cables - 9.1m (30 ft) each   |                          |
| Control cables                  | 9.1 m (30 ft) Ext. Cable with MIL Connectors up to 60 m (200 ft) available |                          |
| Standard:                       |  |                          |
| Optional:                       |  |                          |
|                                 | <b>Ku-band (Linear)</b>  | <b>X-band (Circular)</b> |
| Transmit Power <sup>(3)</sup>   | 1 to 200 Watt  | 1 to 40 Watt             |
| Receive Frequency (GHz)         | 10.70 - 12.75 <sup>(4)</sup>   | 7.25 - 7.75              |
| Transmit Frequency (GHz)        | 13.75 - 14.50  | 7.90 - 8.40              |
| Midband Gain(±0.2 dB)           |  |                          |
| (Rx)                            | 41.50  | 37.40                    |
| (Tx)                            | 43.00  | 38.10                    |
| Antenna Noise Temp. (K)         | 20° EL=46 / 30° EL=43  | 20° EL=51.6              |
| Sidelobe Envelope, Co-Pol (dBi) |  |                          |
| 1° < Ø < 20°                    | 29 - 25 Log Ø  | DSCS Req.                |
| 20° < Ø < 26.3°                 | -3.5   |                          |
| 26.3° < Ø < 48°                 | 32 - 25 Log Ø  |                          |
| 48° < Ø < 180°                  | -10 (averaged)   |                          |
| Cross-Polarization              |  |                          |
| Within 1 dB contour             | -30 dB (Max.)  |                          |
| Any angle off axis              | -25 dB (Max.)  |                          |
| VSWR                            | 1.3:1 (Max.)   | 1.25:1 (Max.)            |

### Environmental

|               |               |                  |
|---------------|---------------|------------------|
| Survival      |               |                  |
| Wind Deployed | 112 km/h      | (70 mph)         |
| Wind Stowed   | 225 km/h      | (140 mph)        |
| Temperature   | -40°C to 65°C | (-40°F to 150°F) |
| Operational   |               |                  |
| Wind          | 72 km/h       | (45 mph)         |
| Temperature   | -32°C to 55°C | (-26°F to 130°F) |

Thermal Test per MIL-STD-810F, Method 501.4, Low Temperatures

### Physical

|                            |                                  |                   |
|----------------------------|----------------------------------|-------------------|
| Mounting Plate             | L: 132 cm (52")                  | W: 56 cm (22")    |
| Stowed Reflector Ext. Dims | L: 177 cm (69.75")               | W: 123 cm (48.6") |
|                            | H: 49 cm (19.25") <sup>(5)</sup> |                   |
| Deployed Height            | 168 cm (66")                     |                   |
| Reflector Weight           | 15.9 kg (35 lbs)                 |                   |
| Total Weight w/Reflector   | 92.5 kg (204 lbs)                |                   |

### RF Interface

|                 |  |
|-----------------|--|
| Radio Mounting  | Feed Arm / Rear of Base / Inside Vehicle |
| Axis Transition | Twist-Flex Waveguide                     |
| Waveguide       | WR75 Cover Flange Interface              |
| Coaxial         | RG6U from Feed Arm to Base               |
| Feed            | 2 port Xpol                              |

### Motors

|                      |       |               |
|----------------------|-------|---------------|
| Electrical Interface | 12VDC | 15 Amp (Max.) |
|----------------------|-------|---------------|

### Shipping Weights & Dimensions\*

Platform Crate: 168 cm x 89 cm x 77 cm (66" x 35" x 30"), 59.5 kg (131 lbs)  
 Platform: 76.5 kg (168 lbs) 7000C Controller: 6 kg (13 lbs) Cables: 5 kg (11 lbs)  
 Reflector Crate: 145 cm x 15 cm x 130 cm (57" x 6" x 51"), 22 kg (48 lbs)  
 Total Weight: 169 kg (371 lbs)

1-Piece Transportable Case: (Optional)  
 219 cm x 143 cm x 84 cm (86" x 56" x 33"), Appr. 164 kg (362 lbs)

2-Piece Plastic Transportable Cases: (Optional)  
 Platform: 178 cm x 69 cm x 74 cm (70" x 27" x 29"), 149 kg (328 lbs)  
 Reflector: 132cm x 25cm x 147cm (52" x 10" x 58"), 49 kg (109 lbs)  
 Total Weight: 198 kg (437 lbs)

2-Piece Metallic Transportable Cases: (Optional)  
 Platform: 178 cm x 76 cm x 74 cm (70" x 30" x 29"), 161.5 kg (356 lbs)  
 Reflector: 132cm x 25cm x 147cm (52" x 10" x 58"), 50 kg (110 lbs)  
 Total Weight: 211.5 kg (466 lbs)

\* The shipping weights/dims can vary for particular shipments depending on actual system configuration, quantity, packaging materials and special requirements

### Notes:

- <sup>(1)</sup> Antenna based on Prodelin, Model 1132 / 1134
- <sup>(2)</sup> Adjustable at the time of order to support higher elevation angle (Optional)
- <sup>(3)</sup> Depending on size and weight for feed arm mounting limitation
- <sup>(4)</sup> LNB PLL Type required with stability better than ± 25 KHz
- <sup>(5)</sup> Lower stow height option available (approx 4 cm lower)



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