FLAT SATELLITE ANTENNA
<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016</td>
<td>Apr. Develop IoT application product</td>
</tr>
<tr>
<td>2015</td>
<td>Jan. Develop SAT&gt;IP application product</td>
</tr>
<tr>
<td>2014</td>
<td>Dec. SNIPE DOME series Launched</td>
</tr>
<tr>
<td></td>
<td>Feb. CAMP series Launched</td>
</tr>
<tr>
<td>2013</td>
<td>Nov. SNIPE PRO / SNIPE PRO MAX Launched</td>
</tr>
<tr>
<td></td>
<td>Sep. GOOD DESIGN Selection and Awarding of iDUO Voyager HD</td>
</tr>
<tr>
<td>2012</td>
<td>Oct. Launched Smart mirroring cable &amp; monitor iDUO series</td>
</tr>
<tr>
<td></td>
<td>Sep. Awarding KES Innovation with SNIPE</td>
</tr>
<tr>
<td></td>
<td>Jun. Launched camping satellite antenna SNIPE</td>
</tr>
<tr>
<td></td>
<td>Mar. Awarding the best trader of the month by KITA</td>
</tr>
<tr>
<td>2011</td>
<td>Mar. Launched ISDB-T digital home tuner for Japan market</td>
</tr>
<tr>
<td>2009</td>
<td>Nov. Launched a new flat antenna model, H30D</td>
</tr>
<tr>
<td>2008</td>
<td>Dec. Awarding an export tower prize from Korean government</td>
</tr>
<tr>
<td></td>
<td>May. Supplied H21D to Canal plus</td>
</tr>
<tr>
<td></td>
<td>Jan. Received approval from ASTRA</td>
</tr>
<tr>
<td>2007</td>
<td>Jun. Antenna bracket &amp; 7 items design registration</td>
</tr>
<tr>
<td>2006</td>
<td>Nov. Develop first flat satellite antenna, H10D</td>
</tr>
</tbody>
</table>

**Patent**
- Ref no. 10-0801030: Patent registration of horn array antenna with dual linear polarization
- Ref no. 10-0865956: Patent registration of horn array antenna with dual linear polarization
- Ref no. 10-0864900: Patent registration of remote controller for TV corresponds with cellular communication network
- Ref no. 10-0888936: Patent registration of horn array antenna with dual linear polarization
- Ref no. 10-0905479: Patent registration of the method to optimize the reception angle of antenna with attenuation pad
- Ref no. 10-0905914: Patent registration of horn array antenna with dual linear polarization
- Ref no. 10-0918954: Patent registration of horn array antenna with dual linear polarization
- Ref no. 10-0918957: Patent registration of horn array antenna with dual linear polarization
- Ref no. 10-0918956: Patent registration of horn array antenna with dual linear polarization
- Ref no. 10-0929165: Patent registration of horn array antenna with dual linear polarization
- Ref no. 10-0949717: Patent registration of mobile AV device
- Ref no. 10-0962396: Patent registration of fixing equipment for mobile antenna
- Ref no. 10-1360145: Remote control system for automatic satellite antenna
- Ref no.10-1384689: Car jack for multimedia play
- Ref no.10-1458093: Car jack for multimedia play and combined detachable mirroring service to it
- Ref no.10-1471535: Antenna device with satellite searching module and relative satellite searching manner
- Ref no.10-1471537: Antenna device with satellite searching module and relative satellite searching manner
- Ref no.10-1536341: Adaptor for antenna
- Ref no.10-1547452: Patent registration of horn antenna with dual linear polarization and horn used for the antenna
- Ref no.10-1546777: Patent registration of skew filter applied horn array antenna with dual linear polarization
- Ref no.10-1589872: Flat antenna and related satellite signal transmission system
- Ref no.10-1619701: Parent registration of flat antenna with satellite signal transmission system
- Ref no. 10-1058814: Patent registration of mobile storage device for transmittable & receivable multimedia data
- EP 1939982: Horn array antenna for linear polarization

**Utility Model**
- Ref no. 20-0442840: Utility model registration of supporting bracket for satellite antenna
- Ref no. 20-0458333: Utility model registration of mobile horn array antenna
- Ref no. 20-0469774: Utility model registration of mobile horn array antenna
Parabolic Dish Antenna
• Gather signal by reflection
• Loss in diffused reflection
• Low efficiency (60~75%)

Wave Guide Horn Antenna
• Collect signal by through-in
• No diffused reflection
• High efficiency (95%)

INPUT
Dual Linear (Vertical & Horizontal) Polarization

LAYER #1
Receive satellite signal through horn of layer #1 without signal loss / Divide into V & H polarization

LAYER #2
Collect H polarization, and send the collected H polarization to LNB

LAYER #3
Collect V polarization, and send the collected V polarization to LNB

LNB
The World's Best Satellite HOME Flat Antenna
Make it easy for yourself !!

Balcony

Wall

Window

Stand
Standard HOME Flat Antenna

- Slimmest & smallest dual polarization antenna
- Anti-rust reinforced plastic material
- Easy installation with provided brackets
- Support Ku-band channels reception

<table>
<thead>
<tr>
<th>Input satellite frequency</th>
<th>10.7 ~ 12.75 GHz</th>
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<tbody>
<tr>
<td>Polarization</td>
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<tr>
<td>L.O frequency</td>
<td>9.75 / 10.6 GHz</td>
</tr>
<tr>
<td>Output</td>
<td>1 / 2 / 4</td>
</tr>
</tbody>
</table>

• Slimmest & smallest dual polarization antenna
• Anti-rust reinforced plastic material
• Easy installation with provided brackets
• Support Ku-band channels reception
• Gain : 33.7 dBi @ 12.7 GHz
• Size : 517 X 277 X 58 mm
• Weight : 2.7 kg

• Gain : 33.7 dBi @ 12.7 GHz
• Size : 527 X 330 X 69 mm
• Weight : 4.3 kg

* Size and weight info is only based on antenna main unit
High Gain HOME Flat Antenna

- High performance flat antenna
- Modern and aesthetic design
- Easy installation with provided brackets
- Support Ku-band channels reception

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<tr>
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<td>9.75 / 10.6 GHz</td>
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<tr>
<td>Output</td>
<td>1 / 2 / 4</td>
</tr>
</tbody>
</table>
**H21D**
- Gain: 34.5 dBi @ 12.7 GHz
- Size: 566 X 300 X 67 mm
- Weight: 4.7 kg
- Feature: Interchangeable LNB

**H22D**
- Gain: 34.5 dBi @ 12.7 GHz
- Size: 566 X 300 X 78 mm
- Weight: 4.9 kg
- Feature: Interchangeable LNB

**H50D**
- Gain: 36.1 dBi @ 12.7 GHz
- Size: 517 X 514 X 58 mm
- Weight: 6.6 kg

**H53D**
- Gain: 36.1 dBi @ 12.7 GHz
- Size: 532 X 588 X 70 mm
- Weight: 8.0 kg

**H58D**
- Gain: 36.1 dBi @ 12.7 GHz
- Size: 517 X 517 X 70 mm
- Weight: 8.0 kg

※ Size and weight info is only based on antenna main unit
Multi-reception HOME Flat Antenna

- First dual satellite reception flat antenna
- Automatic satellite change by DiSEqC
- Luxurious and unique design
- Support Ku-band channels reception

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<tr>
<th>Input satellite frequency</th>
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<td>L.O frequency</td>
<td>9.75 / 10.6 GHz</td>
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<tr>
<td>Output</td>
<td>1 / 2 / 4</td>
</tr>
</tbody>
</table>
**H50M**

- Gain: 33.7 dBi @ 12.7 GHz
- Size: 520 X 527 X 112 mm
- Weight: 6.0 kg
- Feature: ASTRA1 & HOTBIRD

**H50N**

- Gain: 33.7 dBi @ 12.7 GHz
- Size: 520 X 527 X 112 mm
- Weight: 6.0 kg
- Feature: ASTRA3 & ASTRA1 (optional)

※ Size and weight info is only based on antenna main unit
• SAT>IP certified
• All different channel distribution for each users
• Distributing satellite TV via existing network (Wi-Fi)
• Legacy output for conventional DVB-S/S2 receiver

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<tr>
<th>Input satellite frequency</th>
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<tr>
<td>L.O frequency</td>
<td>9.75 / 10.6 GHz</td>
</tr>
<tr>
<td>Output</td>
<td>1 x SAT&gt;IP, 2 x Legacy</td>
</tr>
</tbody>
</table>
- **IP33**
  - Gain: 33.7 dBi @ 12.7 GHz
  - Size: 527 X 330 X 69 mm
  - Weight: 4.9 kg
  - Feature: 8 users

- **IP34**
  - Gain: 33.7 dBi @ 12.7 GHz
  - Size: 514 X 274 X 69 mm
  - Weight: 3.9 kg
  - Feature: 8 users

- **IP36**
  - Gain: 33.7 dBi @ 12.7 GHz
  - Size: 512 X 272 X 69 mm
  - Weight: 3.9 kg
  - Feature: 8 users

- **IP38**
  - Gain: 33.7 dBi @ 12.7 GHz
  - Size: 515 X 275 X 69 mm
  - Weight: 4.4 kg
  - Feature: 8 users

※ Size and weight info is only based on antenna main unit.
High Gain SAT>IP HOME Flat Antenna

- SAT>IP certified
- All different channel distribution for each user
- Distributing satellite TV via existing network (Wi-Fi)
- Legacy output for conventional DVB-S/S2 receiver

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<tr>
<td>L.O frequency</td>
<td>9.75 / 10.6 GHz</td>
</tr>
<tr>
<td>Output</td>
<td>1 x SAT&gt;IP, 2 x Legacy</td>
</tr>
</tbody>
</table>
**IP21**
- Gain: 34.5 dBi @ 12.7 GHz
- Size: 566 X 300 X 70 mm
- Weight: 5.3 kg
- Feature: 8 users

**IP22**
- Gain: 34.5 dBi @ 12.7 GHz
- Size: 566 X 300 X 81 mm
- Weight: 5.5 kg
- Feature: 8 users

**IP58**
- Gain: 36.1 dBi @ 12.7 GHz
- Size: 517 X 517 X 70 mm
- Weight: 8.6 kg
- Feature: 8 users

※ Size and weight info is only based on antenna main unit
### SELFSAT>IP PRO vs SELFSAT>IoT

<table>
<thead>
<tr>
<th>Feature</th>
<th>SELFSAT&gt;IP PRO</th>
<th>SELFSAT&gt;IoT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input satellite frequency</td>
<td>10.7 ~ 12.75 GHz</td>
<td>10.7 ~ 12.75 GHz</td>
</tr>
<tr>
<td>Polarization</td>
<td>Vertical &amp; Horizontal</td>
<td>Vertical &amp; Horizontal</td>
</tr>
<tr>
<td>LNB output frequency</td>
<td>950 ~ 1,950 MHz</td>
<td>950 ~ 2,150 MHz</td>
</tr>
<tr>
<td>L.O frequency</td>
<td>9.75 GHz</td>
<td>9.75 / 10.6 GHz</td>
</tr>
<tr>
<td>Output</td>
<td>1 x SAT&gt;IP, 1 x Low band, 1 x PoE</td>
<td>1 / 2 / 4, 2 x PoE</td>
</tr>
</tbody>
</table>

- For commercial and professional use
- All different channel distribution for each users (IP PRO model)
- Supporting HD & Ultra HD
- Extra PoE output for IoT customization such as IP camera
- **IP21 PRO**
  - Gain: 34.5 dBi @ 12.7 GHz
  - Size: 566 X 300 X 70 mm
  - Weight: 5.7 kg
  - Feature: 32 users

- **IP22 PRO**
  - Gain: 34.5 dBi @ 12.7 GHz
  - Size: 566 X 300 X 81 mm
  - Weight: 5.9 kg
  - Feature: 32 users

- **IoT34**
  - Gain: : 33.7 dBi @ 12.7 GHz
  - Size: 514 X 274 X 69 mm
  - Weight: 4.0 kg
  - Feature: 2 PoE ports

※ Size and weight info is only based on antenna main unit
Multi-distribution HOME Flat Antenna

- Single cable solution antenna for multi users
- Saving considerable labor and material cost
- Satisfying EU standards EN50494(SCR) / EN50607(dCSS)
- Interchangeable LNB (except H50SCR)

<table>
<thead>
<tr>
<th></th>
<th>SCR</th>
<th>dCSS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input satellite frequency</td>
<td>10.7 ~ 12.75 GHz</td>
<td>10.7 ~ 12.75 GHz</td>
</tr>
<tr>
<td>Polarization</td>
<td>Vertical &amp; Horizontal</td>
<td>Vertical &amp; Horizontal</td>
</tr>
<tr>
<td>LNB output frequency</td>
<td>950 ~ 2,150 MHz</td>
<td>950 ~ 2,150 MHz</td>
</tr>
<tr>
<td>L.O frequency</td>
<td>9.75 / 10.6 GHz</td>
<td>9.75 / 10.6 GHz</td>
</tr>
<tr>
<td>Output</td>
<td>1 x SatCR , 2 x Legacy</td>
<td>[1 x dCSS] or [3 x dCSS]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>or [1 x dCSS, 2 x Legacy]</td>
</tr>
</tbody>
</table>
H21SCR
- Gain: 34.5 dBi @ 12.7 GHz
- Size: 566 X 300 X 67 mm
- Weight: 4.7 kg
- Feature: 4 users

H22SCR
- Gain: 34.5 dBi @ 12.7 GHz
- Size: 566 X 300 X 78 mm
- Weight: 4.9 kg
- Feature: 4 users

H21dCSS
- Gain: 34.5 dBi @ 12.7 GHz
- Size: 566 X 300 X 78 mm
- Weight: 4.9 kg
- Feature: 16 / 24 / 32 users

H22dCSS
- Gain: 34.5 dBi @ 12.7 GHz
- Size: 566 X 300 X 78 mm
- Weight: 4.9 kg
- Feature: 16 / 24 / 32 users

* Size and weight info is only based on antenna main unit
Full Automatic Operation !!

- Preferable material
- 3 axis auto adjustment
- 11 pre-set satellites
- Easy upgrade by USB

Brands: hispasat, TURKSAT, VIASAT, ASTRA, telenor, eutelsat
Input satellite frequency | 10.7 ~ 12.75 GHz
---|---
Polarization | Vertical & Horizontal
LNB output frequency | 950 ~ 2,150 MHz
L.O frequency | 9.75 / 10.6 GHz
Output | 1 / 2
**SNiPE3**
- Gain: 33.7 dBi @ 12.7 GHz
- Size: 515 X 355 X 201 mm
- Weight: 10.3 kg
- Feature: Portable & Mountable

**SNiPE3 COMBO**
- Gain: 33.7 dBi @ 12.7 GHz (Satellite), 8 dBi (Terrestrial)
- Size: 515 X 355 X 201 mm
- Weight: 10.8 kg

**SNiPE PRO**
- Gain: 33.7 dBi @ 12.7 GHz
- Size: 515 X 491 X 235 mm
- Weight: 15.2 kg
- Feature: Full aluminum body

**SNiPE PRO MAX**
- Gain: 36.1 dBi @ 12.7 GHz
- Size: 518 X 569 X 270 mm
- Weight: 19.6 kg
- Feature: Full aluminum body

※ Size and weight info is only based on antenna main unit
**SNIPE**

**Automatic CAMPING Flat Antenna**

- Full automatic flat camping antenna
- Pre-programmed 11 satellites
- Extra durable dome cover for protecting internal antenna
- User-friendly one button operation

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<tr>
<td>Output</td>
<td>1 / 2</td>
</tr>
</tbody>
</table>
• Gain : 33.7 dBi @ 12.7 GHz
• Size : 805 X 696 X 299 mm
• Weight : 10.0 kg

• Gain : 33.7 dBi @ 12.7 GHz
• Size : 787 X 649 X 308 mm
• Weight : 10.0 kg

• Gain : 33.7 dBi @ 12.7 GHz
• Size : 660 X 660 X 315 mm
• Weight : 9.8 kg

※ Size and weight info is only based on antenna main unit
• Anti-rust aluminum dish
• Auto satellite switching by DiSEqC 1.1
• Low profile of 18 cm height at HOME position
• Auto HOME positioning by ignition

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<td>Output</td>
<td>1 / 2</td>
</tr>
</tbody>
</table>
GALAXY65

- Gain: 37 dBi @ 12.7 GHz
- Size: 885 X 660 X 184 mm
- Weight: 12.0 kg
- Dish size: 65 cm

GALAXY85

- Gain: 39 dBi @ 12.7 GHz
- Size: 1106 X 860 X 184 mm
- Weight: 13.8 kg
- Dish size: 85 cm

※ Size and weight info is only based on antenna main unit
• Automatic camping satellite antenna with Wi-Fi broadcasting
• All different channel distribution for each users
• Supporting HD & Ultra HD
• Legacy output for conventional DVB-S/S2 receiver

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<td>Output</td>
<td>1 x SAT&gt;IP, 1 x Legacy</td>
</tr>
</tbody>
</table>
SNIPE Air

- Gain: 33.7 dBi @ 12.7 GHz
- Size: 515 X 355 X 192 mm
- Weight: 10.9 kg
- Feature: 8 users

SNIPE DOME Air AD

- Gain: 33.7 dBi @ 12.7 GHz
- Size: 805 X 696 X 299 mm
- Weight: 10.2 kg
- Feature: 8 users

SNIPE DOME Air OV

- Gain: 33.7 dBi @ 12.7 GHz
- Size: 787 X 649 X 308 mm
- Weight: 10.2 kg
- Feature: 8 users

SNIPE DOME Air MN

- Gain: 33.7 dBi @ 12.7 GHz
- Size: 660 X 660 X 315 mm
- Weight: 10.0 kg
- Feature: 8 users

※ Size and weight info is only based on antenna main unit
• Economic and cost effective with manual adjustment
• Easy to control 3 axis operation angles precisely
• Compact size and design for portable installation anywhere
• Support Ku-band channels reception

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</tr>
<tr>
<td>Output</td>
<td>1</td>
</tr>
</tbody>
</table>
TRIPOD38

- Gain: 33.7 dBi @ 12.7 GHz
- Size: 515 X 275 X 60 mm
- Weight: 3.8 kg

TRIPOD58

- Gain: 36.1 dBi @ 12.7 GHz
- Size: 517 X 517 X 70 mm
- Weight: 8.0 kg

CAMP38

- Gain: 33.7 dBi @ 12.7 GHz
- Size: 515 X 275 X 60 mm
- Weight: 3.8 kg

CAMP58

- Gain: 36.1 dBi @ 12.7 GHz
- Size: 517 X 517 X 70 mm
- Weight: 8.0 kg

Traveler KIT

- Gain: 33.7 dBi @ 12.7 GHz
- Size: 517 X 277 X 58 mm
- Weight: 2.7 kg

Easy Find

- Gain: 33.7 dBi @ 12.7 GHz
- Size: 517 X 277 X 58 mm
- Weight: 2.7 kg

※ Size and weight info is only based on antenna main unit
Satellite
MOBILE
Flat Antenna
Get live broadcasting anywhere!!

- Full automatic operation
- Auto tracking system
- Aerodynamic design
- Crystal clear view
• Auto-tracking system for stable reception during drive
• For commercial and professional use
• Aerodynamic design for on-the-move
• European target satellites: ASTRA1 / ASTRA2 / HOTBIRD

<table>
<thead>
<tr>
<th></th>
<th>SELFSAT WAVE</th>
<th>SNIPE DRIVE</th>
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<tr>
<td><strong>Input satellite frequency</strong></td>
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</tr>
<tr>
<td><strong>Output</strong></td>
<td>1 x SAT&gt;IP</td>
<td>1</td>
</tr>
</tbody>
</table>
SELFSAT WAVE

- Gain: 33.7 dBi @ 12.7 GHz
- Size: 808 X 696 X 312 mm
- Weight: 17.0 kg
- Feature: 16 / 32 users

SNIPE DRIVE

- Gain: 33.7 dBi @ 12.7 GHz
- Size: 700 X 700 X 315 mm
- Weight: 15.3 kg
- Feature: DiSEqC 1.1 supportive

※ Size and weight info is only based on antenna main unit
MOBILE Flat Antenna

- Auto-tracking system for stable reception during drive
- Less visible sleek and slim design
- Easy installation and removal by magnetic plate
- One cable connection, no additional power cable required

<table>
<thead>
<tr>
<th>Input satellite frequency</th>
<th>TBD for customization</th>
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<tr>
<td>Polarization</td>
<td>TBD for customization</td>
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<tr>
<td>LNB output frequency</td>
<td>TBD for customization</td>
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<td>L.O frequency</td>
<td>TBD for customization</td>
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<td>Output</td>
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