

FLAT SATELLITE ANTENNA



SELF SAT PRODUCT LINE

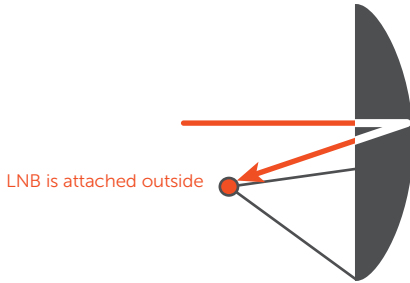
ver 3.0

Jan 2015	Develop SAT>IP application product
Dec 2014	SNIFE DOME series Launched
Feb 2014	CAMP series Launched
Dec 2013	Completed the development of high-H50D series
Nov 2013	SNIFE PRO / SNIFE PRO MAX Launched
Sep 2013	GOOD DESIGN Selection and Awarding of iDUO Voyager HD
Oct 2012	Launched Smart mirroring cable & monitor iDUO series
Sep 2012	Awarding KES Innovation with SNIFE
Jun 2012	Launched camping satellite antenna SNIFE
Mar 2012	Awarding the best trader of the month by KITA
Mar 2011	Launched ISDB-T digital home tuner for Japan market
Jun 2010	Patent registration for mobile antenna fixing equipment (Ref, Nr: 10-0962396)
Oct 2010	Europe patent registration for horn array antenna with linear polarization (Ref, Nr: EP 1930982)
Nov 2009	Launched a new flat antenna model, H30D
Dec 2008	Awarding an export tower prize from Korean government
May 2008	Supplied H21D to Canal plus
Jan 2008	Patent registration for horn array antenna with dual linear polarization
Jan 2008	Received approval from ASTRA
Jun 2007	Antenna bracket & 7 items design registration
Nov 2006	Developed first flat satellite antenna, H10D



SELF SAT™

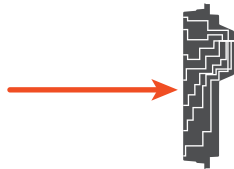
Patent	Ref no. 10-0801030	Patent registration of horn array antenna with dual linear polarization
Patent	Ref no. 10-0865956	Patent registration of horn array antenna with dual linear polarization
Patent	Ref no. 10-0864900	Patent registration of remote controller for TV corresponds with cellular communication network
Patent	Ref no. 10-0888936	Patent registration of horn array antenna with dual linear polarization
Patent	Ref no. 10-0905479	Patent registration of the method to optimize the reception angle of antenna with attenuation pad
Patent	Ref no. 10-0905914	Patent registration of horn array antenna with dual linear polarization
Patent	Ref no. 10-0918954	Patent registration of horn array antenna with dual linear polarization
Patent	Ref no. 10-0918957	Patent registration of horn array antenna with dual linear polarization
Patent	Ref no. 10-0918956	Patent registration of horn array antenna with dual linear polarization
Patent	Ref no. 10-0929165	Patent registration of horn array antenna with dual linear polarization
Patent	Ref no. 10-0949717	Patent registration of mobile AV device
Patent	Ref no. 10-0962396	Patent registration of fixing equipment for mobile antenna
Patent	Ref no. 10-1058814	Patent registration of mobile storage device for transmittable & receivable multimedia data
Europe Patent	EP 1930982	Horn array antenna for linear polarization
Utility Model	Ref no. 20-0442840	Utility model registration of supporting bracket for satellite antenna
Utility Model	Ref no. 20-0458333	Utility model registration of mobile horn array antenna
Utility Model	Ref no. 20-0469774	Utility model registration of mobile horn array antenna



LNB is attached outside

Parabolic Dish Antenna

- Gather signal by reflection
- Loss in diffused reflection
- Low efficiency (60~75%)

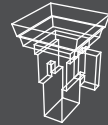


LNB is hidden attached at the backside

Wave Guide Horn Antenna

- Collect signal by through-in
- No diffused reflection
- High efficiency (95%)

Wave Guide Horn Array Technology



INPUT

Dual Linear (Vertical & Horizontal) Polarization

LAYER #1

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

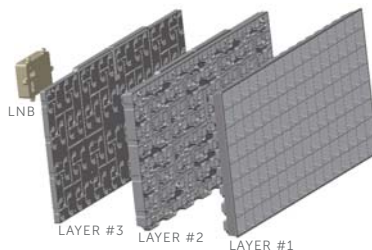
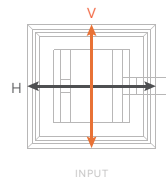
LAYER #2

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



HOME



SELF SAT>IP21

- Frequency : 10.7 ~ 12.75 GHz
- Gain : 34.5 dBi @ 12.7 GHz
- Size : 566 x 300 x 70mm
- Weight : 6.7kg



SELF SAT>IP33

- Frequency : 10.7 ~ 12.75 GHz
- Gain : 33.7dBi @ 12.7GHz
- Size : 527 x 330 x 69mm
- Weight : 5.8kg



SELF SAT>IP34

- Frequency : 10.7 ~ 12.75 GHz
- Gain : 33.7dBi @ 12.7GHz
- Size : 514 x 274 x 69mm
- Weight : 5.7kg



SELF SAT>IP36

- Frequency : 10.7 ~ 12.75 GHz
- Gain : 33.7dBi @ 12.7GHz
- Size : 512 x 272 x 69mm
- Weight : 5.7kg



SELF SAT>IP38

- Frequency : 10.7 ~ 12.75 GHz
- Gain : 33.7dBi @ 12.7GHz
- Size : 515 x 275 x 60mm
- Weight : 5.5kg



SELF SAT>IP58

- Frequency : 10.7 ~ 12.75 GHz
- Gain : 36.1 dBi @ 12.7 GHz
- Size : 517 x 517 x 70mm
- Weight : 10.0kg

OUTDOOR



SNIPE Air

- Frequency : 10.7 ~ 12.75 GHz
- Gain : 33.7 dBi @ 12.7 GHz
- Size : 515 x 355 x 192mm
- Weight : 12.5kg



SNIPE DOME Air series

- Frequency : 10.7 ~ 12.75 GHz
- Gain : 33.7 dBi @ 12.7 GHz

Optimum solution for **SAT > IP**, **Wi-Fi Flat Antenna**

Watch Satellite Broadcasting Channels on Your Mobile Devices!





- SAT>IP Compliant
- Supporting 8 different smart devices simultaneously
- 2 legacy output for conventional DVB-S/S2 receiver
- Distributing satellite TV signals via home network (WI-FI)



Input Satellite Frequency	10.7~12.75 GHz
Polarization	Vertical & Horizontal
Antenna Gain	34.5 dBi @ 12.7 GHz
Size(WxDxH)	566×300×70mm
Weight	6.7kg
Simultaneously Operating Channels	8 Channels
Operating Temperature	-30°C~+60°C
LNB Output	2 legacy 1 standard Ethernet cabling (Cat5e or above)
LNB Output Frequency	950~2150 MHz
L.O. Frequency	9.75GHz / 10.6GHz
Conversion Gain	40~50 dB
LNB Supply Power (PoE IEEE 802.3af-2003)	48 V +/- 10%
LNB Power Consumption (Class 3, PoE PD device)	9 W (typ), 12.95 W (max)



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Input Satellite Frequency	10.7~12.75 GHz
Polarization	Vertical & Horizontal
Antenna Gain	33.7 dBi @ 12.7 GHz
Size(WxDxH)	514x274x69mm
Weight	5.7kg
Simultaneously Operating Channels	8 Channels
Operating Temperature	-30°C~+60°C
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- Distributing satellite TV signals via home network (WI-FI)



Input Satellite Frequency	10.7~12.75 GHz
Polarization	Vertical & Horizontal
Antenna Gain	36.1dBi @ 12.7GHz
Size(WxDxH)	517x517x70mm
Weight	10kg
Simultaneously Operating Channels	8 Channels
Operating Temperature	-30°C~+60°C
LNB Output	2 legacy, 1 standard Ethernet cabling (Cat5e or above)
LNB Output Frequency	950~2150 MHz
L.O. Frequency	9.75GHz / 10.6GHz
Conversion Gain	40~50 dB
LNB Supply Power (PoE IEEE 802.3af-2003)	48 V +/- 10%
LNB Power Consumption (Class 3, PoE PD device)	9 W (typ), 12.95 W (max)



- SAT>IP compliant
- Supporting 8 different smart devices simultaneously
- Portable with provided carrying case



Size (W x D x H)	515 x 355 x 192mm
Weight	12.5kg
Wirelessly Operating Channels	8 Channels at the same time
LNB Output	1 legacy
Min EIRP	50 dBW
Polarization	Linear (Horizontal / Vertical)
Antenna Gain	33.7 dBi @ 12.7GHz
LNB Input Frequency	10.7 ~ 12.75 GHz
LNB Output Frequency	950 ~ 2,150 MHz
Angle Range (Elevation , Azimuth , Skew)	15°~90° , 360° , -60°~+60°
Search Speed(Elevation , Azimuth , Skew)	11.5° / s , 25° / s , 15° / s
Satellite Searching Time	180 seconds (max)
Input Voltage	DC 12 ~ 24V
Power Requirement	70W (In searching)
Operating Temperature	-20°C~+60°C
Wireless Connection	Supporting IEEE 802.11 AC compliant



- SAT>IP compliant
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MODEL	AD Air / OV Air / MN Air
Size (W x D x H)	800 x 685 x 300 mm / 787 x 649 x 300 mm / 660 x 660 x 310 mm
Weight	9.6 kg / 9.6 kg / 8.0 kg
Wirelessly Operating Channels	8 Channels at the same time
LNB Output	1 legacy
Min EIRP	50 dBW
Polarization	Linear (Horizontal / Vertical)
Antenna Gain	33.7 dBi @ 12.7GHz
LNB Input Frequency	10.7 ~ 12.75 GHz
LNB Output Frequency	950 ~ 2,150 MHz
Angle Range (Elevation , Azimuth)	10°~75° , 390°
Search Speed(Elevation , Azimuth)	11.5° / s , 25° / s
Satellite Searching Time	180 seconds (max)
Input Voltage	DC 12 ~ 24V
Power Requirement	70W (In searching)
Operating Temperature	-20°C~+60°C
Wireless Connection	Supporting IEEE 802.11 AC compliant



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