

SATMARK user's guide

FUTURE SOLUTIONS

MERITS

Plug and play

No installation costs

Portable

Compact design

Multi satellite searching

Error-free

Auto positioning capability

FEATURES

Multi auto-searching / Adjustable LNB skew angle Regional elevation angle selection touch switch

Program update port

Working status on LCD / Built-in compass





Portable Auto Positioning Satellite Antenna



PAPSA

User's Guide

Congratulations' on purchasing your new PAPSA unit. The PAPSA is state of the art antenna technology. This user guide contains all the information required for setup and operation of the PAPSA unit. Please follow the user guide carefully.

WARNING: TO REDUCE RISK OF FIRE OR ELECTRICAL SHOCK, DO NOT EXPOSE TO RAIN OR MOISTURE



A helpful tip that either directs you to a related area whithin the manual or offers suggestions on getting the highest quality out of your system.



An alert to important information regarding procedures, product specifications, or product use.



An electrical safety warning to help identify electrical issues that can be a hazard to either this SATMARK product or a user.



Information about installation, maintenance, troubleshooting, or other mechanical issues.



This serial number will be required for all troubleshooting or service calls made regarding this product.

Introduction

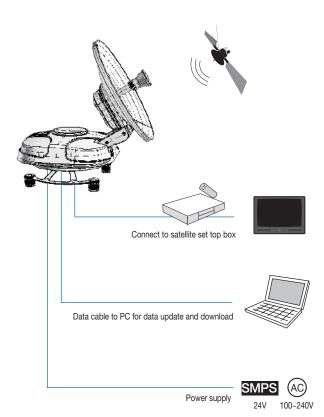
System Diagram Components Open **Contents / Assembling** Installing Watching TV **DATA Update Specification Causes and Remedies for Common Operational Issues**

SATMARK Industries Limited Warranty

System Diagram

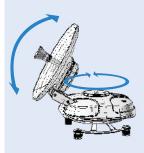
Feature

PAPSA is plug and play and will automatically search satellite signal. PAPSA can be located inside dwelling or outside.



Auto Positioning

Auto-Positioning seeks Satellite optimum signal
No user interface required.

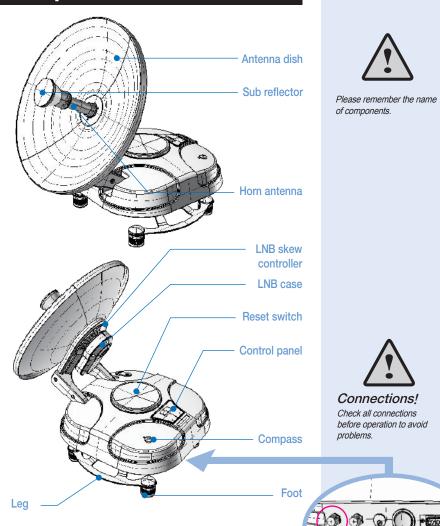




Caution!

Do not touch antenna during automatic setup.

Components



STB-1:Connect to set top box —

STB-2 :Connect to set top box

DC :Connect to power supply
POWER :System on/off —

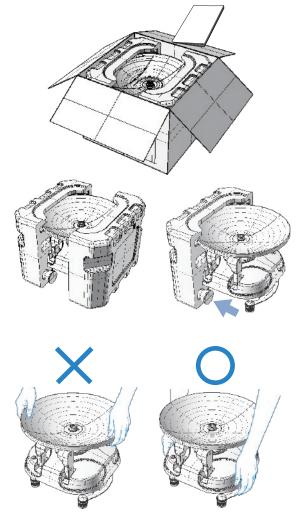
DATA :Program update port -

* Set top box must be connected to STB-1 port

Open

Open

Remove tape from packaging (Do not use knife) packaging contains user manual. Please read carefully Remove antenna gently from packaging Remove antenna parts from packaging foam



Do not handle antenna "dish" Hold antenna by leg or body "only"



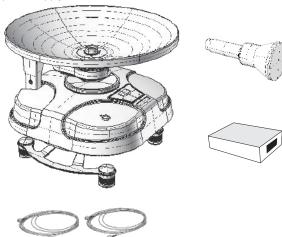
Caution

Do not handle antenna dish May cause antenna damage.

Contents/ Assembling

Contents

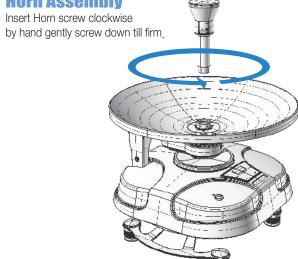
User manual, antenna body, antenna horn,4 legs, power cable, power supply.





Check contents carefully.







After assembly do not move antenna by hand.



Antenna Location

Place antenna with unobstructed line of sight (sky). Avoid placement near excessive moisture. Antenna may be placed on stand.

Setting Antenna Direction



Move antenna body until compass direction to target satellite aligns with triangle.



When adjusting position handle only body or legs.



Installation is possible where there is clear line of sight facing north.



Terrace or similar location



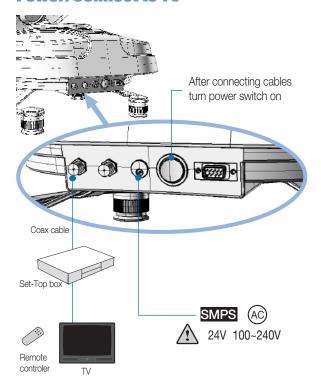
Roof or similar place





Watching TV

Power/Connect to TV





Avoid placement near excessive moisture.

Check Satellite operation/watching TV

Turn on TV and set-top box Power on PAPSA

Wait until antenna searching and positioning is completed (approx 1 minute)

After antenna positioning is complete PAPSA will start automatically and TV can now be viewed

If no TV picture check all conditions set-top box PAPSA and TV Follow the above steps again

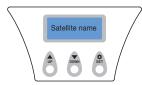
Refer to users guide.



If you use single output set top box always connect to STB-1.

Elevation Angle Setting

A few seconds after System Power On, "satellite name" will appear elevation angle set menu.



Elevation angles are set from 35 degree to 70 degrees. User's can also choose elevation angle by location name.

Use up and down switch to choose your location and push set switch. All settings are finished. Now push start switch and system will start searching satellite signals.

Factory setting will be 50 degrees. After the first settings have been activated they will be automatically memorised. There is no need to reset as long as you remain in the same location.

LCD window shows current status of auto searching system

H POL. SELECTED

18V from set top box (Vertical signal)

V POL. SELECTED

13V from set top box (Horizontal signal)



Only applicable for the above two cases (Linear signal)

CHECK. STB CBL. Not connected with set top box- Check cable connected with STB-1

SIGNAL DETECTED

Satellite signal found

NIT DETECTED Confirm the signal is right information from target satellite

SIGNAL LOST. Cannot find satellite signals - check antenna direction



Elevation Angle / Location name

Use up and down switch to set locations.

Example(Australia)

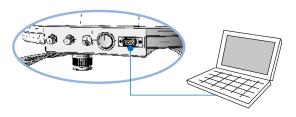
EL 70DEG COOKTOWN EL 65DEG **TOWNSVIL** EL 60DEG BRISBANE EL 55DEG DARWIN EL 50DEG SYDNEY EL 45DEG **MELBOURN** ↓ ↑ EL 40DEG HOBART EL 35DEG PERTH



After antenna is locked in with satellite you may power off to save unnecessary power usage.

DATA Update

future work



Data cable to PC for data update or download.

Specification

Antenna Type	Parabolic 46 cm
Input Frequency	10.7-12.75 GHz
Output Frequency	950-2,050 Mhz
Antenna Gain	33[dBi] / 35[dBi]
Antenna Size	460mm / 600mm
Polarization	Horizontal / Vertical or RHCP / LHCP
Cross Polarization	< -20dB min.
LNB Noise Figure	0,9dB max.
L/O Frequency	Suitable for most frequency ranges world wide
Output Impedance	75[Ohm]
Az Controll Range	360° ±10°
EL Controll Range	25~80°
Power Supply	AC100-240[V] / DC24[V]
Operation Temperature	-30℃ ~80℃
Storage Temperature	-40℃ ~85℃
Humidity	95%@40degrees
Weight	7kg
Dimension	460 x 460 x 410mm

Causes and Remedies for Common Operational Issues

There are a number of common issues that can affect the signal reception quality or the operation of the PAPSA. The following sections address these issues and potential solutions.

Blown Fuse, Low Power, or Wiring

If the antenna unit is installed but entirely non-responsive, there are three key factors to check as part of the troubleshooting process:

Blown Fuse

With the system powered on, move the antenna reflector slowly by hand. If the reflector does not move freely, a fuse is not the problem. If the reflector does move freely, one of the two fuses mounted on the CPU Board may have blown or been broken. The PAPSA Technical Manual provides detailed instructions for authorized service personnel who may be required to replace a fuse. Contact your local SATMARK dealer or service center for assistance

Low Power

If the power cable to the antenna unit is more than 50ft (15 m), the power levels can decrease over the course of the cable, resulting in a voltage or current level at the antenna unit that is too low to power the system properly. The PAPSA Technical Manual provides detailed instructions for supplying adequate power to the antenna unit. Contact your local SATMARK dealer or service center for assistance

Wiring

If the system has been improperly wired, it will not operate correctly. The PAPSA Technical Manual provides detailed instructions for authorized service personnel who may be required to check the wiring. Contact your local SATMARK dealer or service center for assistance.



If you need help troubleshooting your system, Please contact an authorized SATMARK dealer. To find an authorized dealer near you, visit www.satmark.com, or contact SATMARK directly at the numbers provided on the first page of this manual.

Satellite Signal Blocked

Satellite signals can be blocked or degraded by buildings, other vessels, or equipment on the vessel itself. Simply moving the vessel or obstruction will clear the signal.

Satellite Coverage Issue

PAPSA will provide outstanding reception within the 18" (45 cm) antenna coverage area for your satellite television service of choice

However, reception can be degraded as you approach the fringe coverage areas.

Refer to your satellite television service manual to check the viable coverage area for a18" (45 cm) antenna

Radar Interference

The energy levels radiated by radar units can overload the antenna's front-end circuits. Check with your installer to make certain that the PAPSA antenna unit is in the optimal location with regard to your radar unit.

Satellite Frequency Data Changed

If some channels work while one or more other channels do not, or if the antenna is unable to find the satellite, the selected satellite's frequency data may have changed.

This frequency data can be updated via the maintenance port. Contact your local SATMARK dealer or service center for assistance.

Incorrect or Loose RF Connectors

A loose RF connector can reduce the quality of the satellite signal.

Also, if you cannot switch satellites using your IRD remote, your IRD may be connected to the wrong antenna base plate connector. The PAPSA Technical Manual provides instructions for authorized service personnel who may need to check the RF connections.

Contact your local SATMARK dealer or service center for assistance.



For your convenience, SATMARK provides links to several web sites that offer satellite coverage information. Simply go to our website at www.satmark.com