

DIGITAL SATELLITE METER

MODEL NUMBER: S M - 1 1 0 0

USER'S MANUAL

TRIMAX METERS

<http://www.trimaxmeters.com>

Please read this manual carefully before using your meter for the first time.

The technical specifications and operating methods included in this manual are subject to changes without notice. In case of any inquires after a period of usage, please contact the manufacturer.

Please charge the battery before using your meter for the first time. (Recommend 5 hours)

Contents

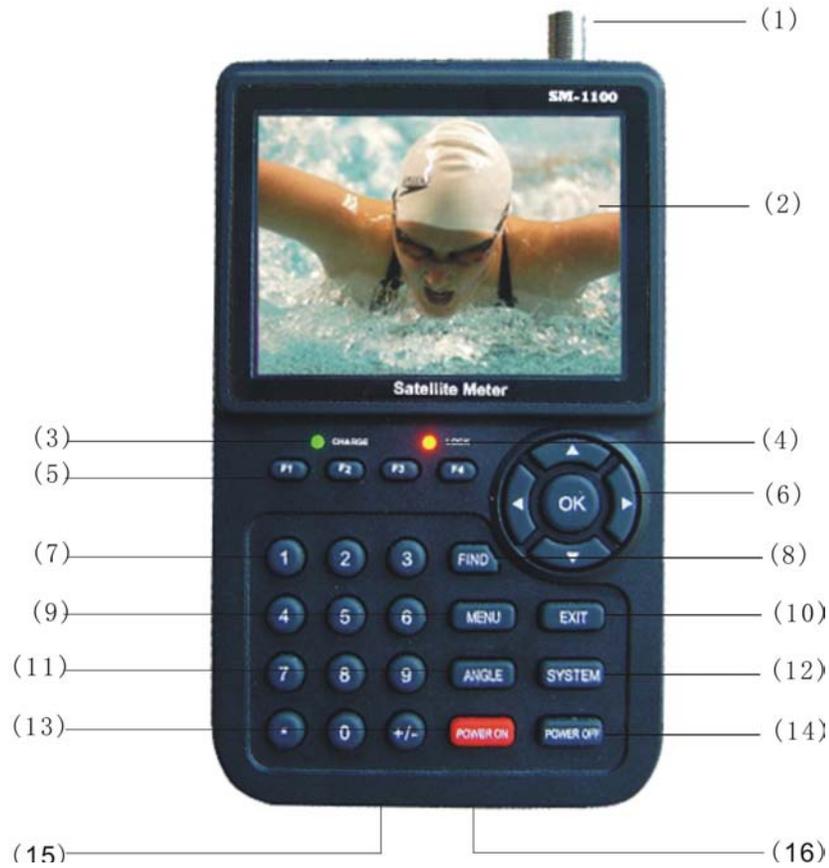
Chapter I. Introduction	3
Chapter II. Function	4
A. Front Panel	4
B. Quick Operation	5
1. Language setting	
2. Quick operation guide	
C. Detailed operation Guide	6
1. Turn on the equipment	6
2. Satellite Setting	
(1) Edit Satellite	
(2) Add TP	
(3) Delete satellite	
(4) Auto Scan	
3. System Setting	6
4. System Information	
5. Current Program Information	
6. Dish angle calculation	12
Chapter III. Power Supply	14
Chapter IV. Specification	15

Chapter I Introduction

SM-1100 digital satellite meter is simple and convenient for setting and aligning a satellite dish. Using the parameters of satellite, you can set and align a satellite dish quickly, easily and accurately.

Chapter II Function

A. Front Panel



<Figure2-1>

- (1) LNB INPUT :
Satellite signal input port, connects directly to satellite antenna using coaxial cable.
- (2) LCD Screen :
Shows MENUs and Programs clearly
- (3) Power Light :
Indicates ON or OFF state.
- (4) Signal Light :
This light will be on when signal is locked.
- (5) Function Key :
Made of 4 keys, F1 -- F4.
(Tip) F4 : To show information about the current program
- (6) Arrow Key and OK key :
Use the Arrow key to select the right item, OK key to confirm.
- (7) Numerical Key :
To enter numerical settings directly.
- (8) FIND Key:
Go to the easy satellite find menu, can set and align a satellite dish quickly.
- (9) MENU Key:
To enter or exit the main menu.
- (10) EXIT Key :
To exit from the present menu and move to the previous menu
- (11) ANGLE Key :
Go to the AZ and EL calculation menu
- (12) SYSTEM Key :
To set all system parameters.
- (13) Power On Key :
To turn the meter on , press and hold for 2 seconds to power on the meter.
- (14) Power Off Key :
To turn the meter off
- (15) Charge port:
to connect with the charger cord.
- (16) USB Port:
connect to PC to upgrade .

B. Quick Operation

Through this function, user can quickly and easily find the right satellite and accurately set the dish.

Menu language Setting

1. Turn on your satellite meter
2. Press the SYSTEM button to display the system setting menu <Figure2-2>



<Figure2-2>

3. Use [◀][▶] button to change the language . Select the language that you want .

2) Quick operation guide

- 1 . Press the FIND button to display the signal finding menu <Figure2-3>



<Figure2-3>

- 3 . Use [◀][▶] button to select the satellite .
- 4 . Select the item that you want to edit, and set its parameters as desired.
LNB Type : Select C/Ku/Universal
L.O. LOW : Set the parameters as desired
L.O. HIGH : Set the parameters as desired
- 5 . Use [◀][▶] button to move to the TP Index, select the TP frequency you want.
FREQUENCY : Set its parameters, can input numerically .
SYMBOL RATE : Set its parameters, can input numerically .
POLARITY : Select between Vertical and horizontal.
- 6 . When signal finding: you can see the bar meter of the LEVEL and QUALITY, and the numerical of S/N and C/N, at the same time the LOCK light will come on and the speaker will sound.
- 7 . Adjust the dish slightly to get the strongest signal
- 8 . Highlight “SCAN” and press “OK” to scan for channels.

C. Detailed operation Guide

📁) Turn on the equipment

- 1 . Press and hold POWER ON button for 2 seconds to turn on the satellite meter

📄) SATELLITE SETTING

➤ EDIT SATELLITE

- 1 . Press the MENU button to display the main menu
- 2 . Use[▲][▼]button to move cursor
- 3 . Press OK on 'SATELLITE SETTING' The following window will appear.<Figure2-4>



<Figure2-4>

4. Press OK on 'EDIT SATELLITE' The following window will appear<Figure2-5>



<Figure2-5>

5. Use [◀][▶] button to move cursor, select the satellite you want to edit.

LNB Type : Select among C/KU/Universal

L.O. LOW : Set its parameters as desired

L.O. HIGH : Set its parameters as desired

22K : Select among ON/OFF

DiSeqC : Select among LNB1/ LNB2/ LNB3/ LNB4/OFF

- 6 . If the default satellite name is not appropriate, you can select the item that you want to edit.

Edit Satellite Name :

Press OK on 'SATELLITE NAME' ,Use[◀][▶]button to select the letter you want to edit. Use[▲][▼] button to select './0-9/a-z/A-Z' , press OK to confirm.

Edit Longitude :

Press OK on 'LONGITUDE' , to edit parameters as desired

Press OK under 'YES' to save the selected satellite

➤ ADD TRANSPONDER

- 1 . Press OK on 'ADD TRANSPONDER' The following window will appear.<Figure2-6>



<Figure2-6>

- 2 . Use [◀][▶] button on satellite name, select the satellite that you want
- 3 . Use [▲][▼] button to select the item that you want to edit, and set its parameters as desired
FREQUENCY : Set its parameters as desired
SYMBOL RATE : Set its parameters as desired
POLARITY : Select V or H
- 4 . Press OK under 'YES' to save the added TP

➤ DEL SATELLITE

- 1 . Press OK on 'DEL SATELLITE' The following window will appear,<Figure2-7>



<Figure2-7>

- 2 . Use [▲][▼]button to select the satellite name that you want to delete
- 3 . Press OK on the satellite name,
- 4 . Use [◀][▶]button to select YES or NO(YES:delete;NO:don't delete)

➤ AUTO SCAN

1 . Press OK on ‘AUTO SCAN’ The following window will appear,<Figure2-8>



<Figure2-8>

2 . Use [◀][▶] button on SCAN MODE to select the scan mode that you want

3 . Highlight “YES” and press OK to scan the selected satellite

<Figure2-9>



<Figure2-9>

4 . saves the channels in memory.

3) System Setting

1 . SHUT OFF

Through this setting you can select the satellite meter shut off time

a) Press the SYSTEM button to display the system setting menu <Figure2-10>



<Figure2-10>

b) Use [◀][▶] button to select shut off time from 00 to 45 minutes (00 means always on)

2 . TV STANDARD

This menu allows you to specify the video output

➤ Video Format : Select the video output format.(Auto/PAL/NTSC)

3 . LNB POWER

➤ Select ON or OFF

6) FACTORY DEFAULT

This sub menu allows you to restore the factory default value<Figure2-11)



<Figure2-11)

➤ Factory Set : Erase all channels and restore the factory default settings.

▣) Channel Selection – Press “OK”

You can use [▲][▼] to navigate between channels until you find the channel you want<Figure2-12>

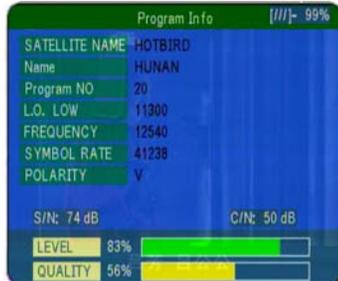


<Figure2-12>

➤ If you know the channel number, you can enter it with the NUMERIC buttons and wait 2 seconds until the channel is changed

☰) Channel Information

- While watching a channel, you can press the F4 button to display the information menu <Figure2-13>



<Figure2-13>

- Use this menu to check the satellite name, channel name, TP parameters, Signal intensity, etc.

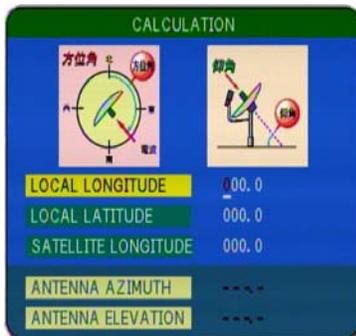
7) SYSTEM button

You can check the current information about your satellite meter such as meter S/W(software) version, <Figure 2-11>

Note : This information is useful to see if there is a newer software available.

8) Calculation

- 1 . Press the ANGLE button to display the Calculation menu <Figure2-14>



<Figure2-14>

- 2 . Local longitude : input your local longitude
- 3 . Local Latitude : input your local Latitude
- 4 . Satellite Longitude: input the the longitude of the satellite you want to install
- 5 . Antenna azimuth: shows the azimuth of the chosen satellite.
- 6 . Antenna elevation: shows the elevation of the chosen satellite.

Specifications

System capabilities	Fully DVB compliant	
LNB/Tuner input	Connector	IEC 169-24,female
	Frequency range	950MHz-2150MHz
	Signal lever	-65dBm~-25dBm
	LNB supply	13/18V,max400mA
	LNB switch control	22KHz
	DiSEqC	Ver 1.0/1.1
Demodulator	Front end	QPSK
	Symbol rate	2Msps~45Msps
	SCPC and MCPC Capable	
	Spectral inversion	Auto conversion
System resource	Processor	32bit processor (133MHz)
	SDRAM	8Mbyte
	FLASH	2Mbyte
	EEPROM	32Kbyte
Video decoder	MPEG 2	Main Profli@Main Level
	Data Rate	up to 15M bits/s
	Resolution	720*576,720*480
	Video format	NTSC,PAL
	Aspec Ratio	4:3,16:9
MPEG Audio	MPEG 1 layer 1&2	
	Type	Mono,Dual mono,Stereo,Joint Stereo
	Sampling rates	32,44.1 and 48KHz
Serial data interface	Connector	9pin D-sub male,Max 115k bps
Power supply	Battery	1950 mA
	Supply voltage	12.6Volt
	charger	90-240V
Rear Panel connectors	Digital tuner input	IEC 169-24
Physical Specification	Size(3.5x6x1.75)	9.5x15.5x4.5 (cm)
	Weight(Net) 1.05 pds	0.5 Kg

Chapter III Power Supply

The meter battery is Li-oN battery.