

Digital Satellite Meter

User Manual

FCC ID: OPJDSM101

Model Name: DSM-101, LXN-PN-DSM-101

Brand Name: LUXONUS

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Product Description

It is a battery powered hand held Satellite alignment meter demodulating DVB-S Signal. It's very convenient for installer to catch quick and accurate Alignment for Antenna to the best position.

It's with microprocessor controller, reliable and stable performance. When it's turned on, channel picture, Signal Strength and Signal Quality will be showed on LCD Screen after you set up your local DVB-S Parameter. Also, it enables you to select big menu window for data figure which is helpful for alignment.

It shows Azimuth and Elevation, CBER/VBER, S/N, Signal Strength and signal lock sound.

It detects very faint signal, and supports antenna power OFF/13V/18V selectable.

It's with auto-protection for LNB short-circuit

It includes both AV IN and AV OUT for Camera, LCD...etc

It has the AV in and AV out function.

It assist with key backlighting, flashlight

It's used with 12V Power Adaptor when you need to use external power.

It includes high capacity Lithium Battery 8.4V 3000mAh which works for more than 4 hours after it's fully charged.

1.GUIDE

1.1 Panel keypads



NO.	Name	Function
1	Signal Input	To connect it with external antenna
2	LCD Screen	To show menu and channel pictures... etc
3	Signal Lock Indicator Light	To lock signal when it lights
4	Charging Indicator Light	The light is on when it's charging; It's off when charging is complete.
5	Power Indicator Light	The light is on when meter is turned on
6	22K Switch Indicator Light	22K Switch is on when it lights
7	13/18V Indicator Light	To show H/V switch output
8	F1 F2 F3 F4	Function Buttons
9	◀▶▶▶ OK	Arrow for Cursor Moving OK for Confirmation
10	MENU	To show main menu or return to previous menu
11	EXIT	To cancel selection or exit from current menu
12	0-9 Numerical Button	To input numerical for setting parameters
13	BEEP	Signal lock alarm
14	B.Light	LCD Screen Switch
15	Mute	Sound On/Off Switch
16	TV/Radio	Switch between TV Channel and Radio Channel
17	SCAN	Enter into Quick Search
18	INFO	To show parameter of current channel
19	USB Port	Port for Upgrade or connecting to multimedia
20	Power Connection port	Port for connecting to external power supply
21	Power Switch	Power Switch for machine power
22	AV Output	AV Output
23	AV Input	AV Input
24	Flashlight holes	flashlight

1.2 Power On/Off

To turn on the meter when Power Switch moves to I position

To turn off the meter when Power Switch moves to 0 position

Please turn off the meter to charge the meter in time when system information for showing low power pops up

1.3 Power Supply and Battery

It's used with 12V 1.5A Power Adaptor. It charges through external power when battery is out of power.

It's used with 8.4V 3000 AH Lithium Battery. It needs 5 hours charging time by connecting power adaptor with external power or car charging. After it's full charge, it works for more than 5 hours (It also depends on the load of external antenna).

Notice: For initial charge, please make battery fully-charged (We suggest it charge for 8 hours).

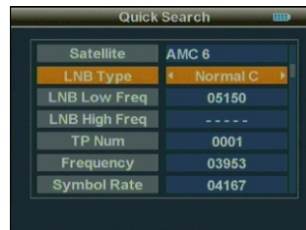
2. MENU

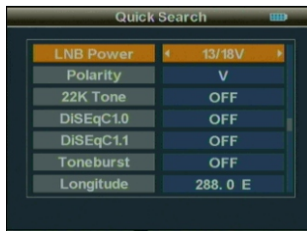
Press “MENU” key to enter into main menu, and

use Arrow key to move cursor, and then press “OK” key to select sub-menu.



2.1 Quick Search





2.1.1 Satellite Name

To select the satellite name for receiving signal

2.1.2 LNB Type

Select LNB Type

2.1.3 LNB Low Freq/ LNB High Freq

Use the numerical button to input Freq Value of LNB

2.1.4 Frequency

Use the numerical button to input the Value of Frequency

2.1.5 Symbol Rate

Use the numerical button to input Value of SYMBOL RATE.

2.1.6 Polarity

Select Polar Mode

2.1.7 LNB Power

Choose LNB Power type (OFF/13V/18V).

2.1.8 22K Tone

Choose 22K TONE(ON/OFF)

2.1.9 Toneburst

Choose Toneburst Mode. (OFF/A/B)

2.1.10 DiSEqC1.0

Choose DiSEqC 1.0 Mode (OFF/LNB1/LNB2/LNB3/LNB4)

2.1.11 DiSEqC1.1

Choose DiSEqC 1.1 Mode (OFF/LNB1/LNB2/LNB3/LNB4 /LNB5/LNB6/LNB7/LNB8/ LNB9/LNB10/LNB11/LNB12 /LNB13/LNB14/LNB15/LNB16)

2.1.12 Longitud

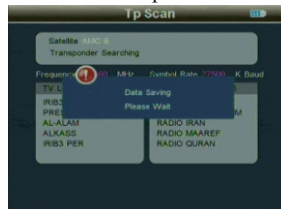
Use the numerical button to input Longitude of Satellite.

2.1.13 Set parameters, and press “OK” button to enter the Sub-menu, and then adjust the dish according to the interface parameters.



2.1.13.1 TP Scan

Scan all programs of the current frequency, and automatically store them after scanning, and then return back to the previous menu.

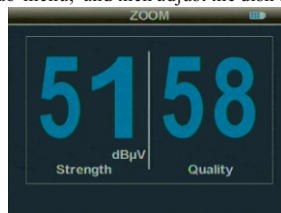


2.1.13.2 Scan All

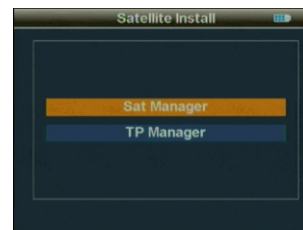
Scan all programs of all channels, and automatically store them after scanning, and then return back to the previous menu.

2.1.13.3 Zoom

Use ◀▶ button to select Zoom, and press “OK” button to enter the Sub-menu, and then adjust the dish to the best direction.

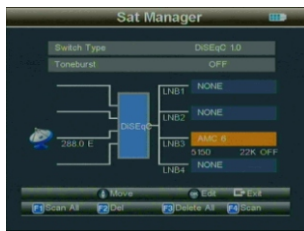


2.2 Satellite Install



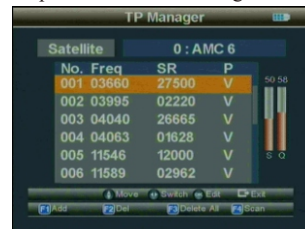
2.2.1 Sat Manager

Press “OK” button to enter the Sub-menu, and then set the state of the dish

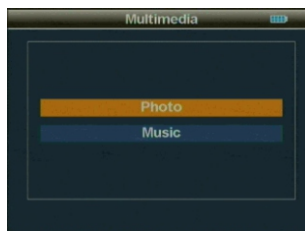
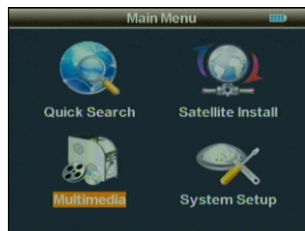


2.2.2 TP Manager

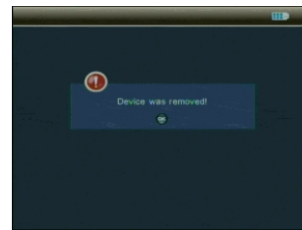
Press “OK” button to enter the Sub-Menu, and then make operations according to the instructions.



2.3 Multimedia

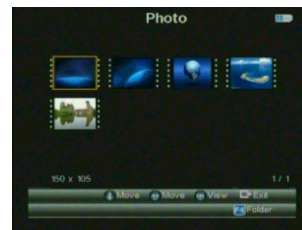


For Multimedia, the external memory should be inserted into USB port. Otherwise, “Device not supported” will pop up on the window..



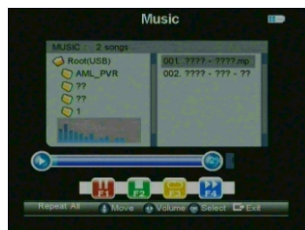
2.3.1 Photo

Previewing the pictures in JPG format, and make operations according to its instructions.



2.3.2 My Music

Play the Music in MP3 format, and then make operations according to its instructions.



2.4 System Setup



2.4.1 OSD Language

Set the On Screen Display Language

2.4.2 KB-BackLight

Button backlight delay select switch (OFF、5 Second、10 Second、20 Second)

2.4.3 SW Update

To upgrade SW or Data through USB port.

To store the upgrading file in the external memory, and insert it into USB port, and then enter upgrade menu.

To select the file, it will automatically return back to the previous menu after upgrade.

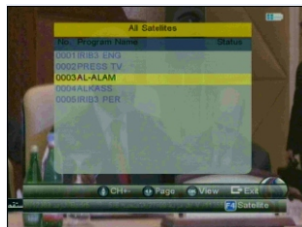


2.4.4 Set Default

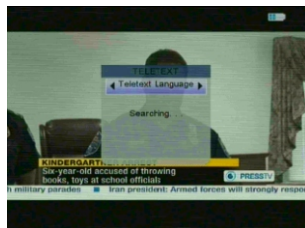
Press “OK” button to set Factory Default.

2.5 Shortcut Buttons

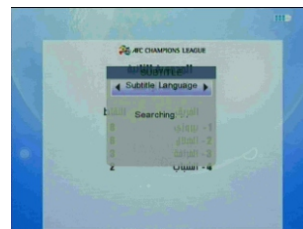
2.5.1 Press “OK” button to enter the Sub-menu when it's playing programs, and make operations according to its instructions.



2.5.2 Press “F1” button to enter the Sub-menu when playing programs, and make operations according to its instructions.



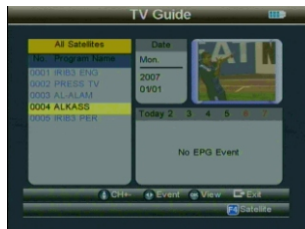
2.5.3 Press “F2” button to enter Sub-menu when it's playing programs, and make operations according to its instructions.



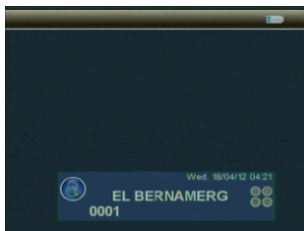
2.5.4 Press “F3” button to enter the Sub-menu when it's playing programs, and make operations according to its instructions.



2.5.5 Press “F4” button to enter the Sub-menu when it's playing programs, and make operations according to its instructions.



2.5.6 In the broadcast, press the “TV/Radio” button , to achieve TV/Radio feature conversion.



2.5.7 Press “INFO” button to enter Sub-menu when playing programs, and make operations according to its instructions.



2.5.8 According to “BEEP” selection signal strength prompt open or closed.

2.5.9 Press “” button over two secs ,on/off flashlight.



Chapter III Specifications

System Capabilities	Fully DVB-S Compliant	Yes
LNB input	Connector	F type, Female
	Frequency Range	950MHz-2150MHz
	Signal Level	-65dBm~-25dBm
	LNB Power	13/18V,Max350mA
	LNB Switch Control	22KHz
Demodulator	DiSEqC	Ver 1.0
	Front end	QPSK
	Demodulation Range	2Mbps-45Mbps
System Resources	SCPC and MCPC Capable	Yes
	Processor	32bit processor (133MHz)
	FLASH	8Mbyte
	SDRAM	4*16Mbyte
Video Decoder	MPEG 2	MP@ML
	Data Rate	Max15Mbits/s
	Resolution	720*576,720*480
	Video format	PAL/NTSC/SECAM
Audio	MPEG	MPEG-1&2
	Type	Single
	Sampling Rate	32,44.1 & 48KHz
Data Transfer	Connector	USB
Power Supply	LI-ION battery	3000 mAh/8.4V Max
	Power Adaptor	In AC 100-240
		Out DC 12V
Physical characteristics	Size	12.5x20.5x4.5 (cm3)
	Net Weight	0.66KG

Handling Precautions and Prohibitions of Battery in Sat Meter

Warning:

You are using Lithium ion batteries and Nickel metal hydride batteries in the machine now, so Please don't work under high temprature or high pressure conditions. If the follo-wing items happened,abnormal chemical reaction mey occur which will lead to the battery overheat, emit smoke,ignite and/or burst.

- (1)incinerate and dispose the battery in fire or heat it;
- (2)pierce the battery with a nail or other sharp objects,strike it with a hammer or step on it;
- (3)immerse the battttery with water or connect the positive(+) and negative(-) terminals with a metal objects such as neckles, hair pins,etc.

Notice:

The battery is only applicable to the charger which supplied or appointed by the manufacturer of this machine. The charging time should be minimum 5 hours for the first time, and it should not be charged over 12 hours after the first time.

Please keep your machine off when the battery is charging. The battery should be stored within a temperature range of 0℃ to 40℃.

When stored for a long period, charge the battery at least

once per half month so as to prevent over discharge.
The battery is expendable.

Handling:

Improper setting of new battery may lead to the battery burst.

Please use the battery only supplied by the manufacturer,if you want to change a new battery.

Please do not put the battery in fire or dispose it together with garbage.

Please contact the waste administrative institute in your place to get the nearest battery collection station.

5.Product Standard Package



AV cable



Car charger cable



Power



Ruobber Cover

IMPORTANT REGULATORY INFORMATION

This device complies with Part 15 of the FCC Rules: Operation is subject to the following two conditions:

1. This device may not cause harmful interference and
2. This device must accept any interference that is received, including any interference that may cause undesired operation.

WARNING:

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.