



S A M - l i t e

Satellite Meter

User Manual

Ver: 0801

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1. Introduction

Thank you for purchasing our satellite alignment meter. It should provide years of trouble free operation.

Please read this guide to familiarize yourself with all features and options available.

Be careful with satellite dish pointing not to injure others by dropping tools or hurting yourself by falling down.

Take care of the meter by keeping it warm and out of the rain.

Please note in severe cold weather the battery capacity could be greatly reduced. Store it in warm condition prior to use and keep the battery fully charged in these conditions.



2. Supplied items



Maxpeak SAM-lite
Satellite Alignment
Meter with protective leather
case



Spare F to F Connector



USB Cable

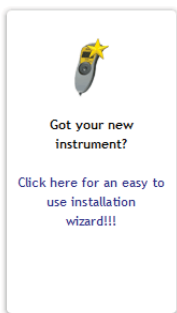


Wall socket charger



Car socket charger

3. Getting started



Before using the instrument, a full charge should be performed (as described in Chapter 4).

On our website www.maxpeak.tv ; Click on the “new instrument wizard” and follow a few steps to create a user profile and download firmware and settings.

1. Create a Maxpeak user profile:

- Navigate to our website: “www.maxpeak.tv”
 - The website senses your location and language automatically. If your language choice is different and available, click on the flag in the top right hand corner.
 - *The website language is the language that will be loaded in the firmware. E.g. if you have selected English, then the meter will be in English as well.*
- Create the profile.
 - Enter the security number from the picture.
 - Enter a “User name” and “Password” and valid email address.
 - *The e-mail address entered in the procedure needs to be valid. A confirmation e-mail is sent to this address and your account will not enable until you reply to it.*
If you do NOT receive a confirmation email within 5 minutes, it is likely your virus program and / or email provider has treated the email as SPAM. Try to retrieve the email or follow the alternative method.



The USB socket is located under the rubber molding on the left side on the instruments.



2. Product Registration, connect to pc:

- Connect the meter to the computer
 - Lift rubber molding on left side of the instrument to reveal the USB socket.
 - Connect the USB lead from the instrument's USB socket to the computer USB interface.
 - If connecting for the first time: follow the Windows driver installation process.
 - ! *Help with driver installation is available from our website, www.maxpeak.tv/support.php If windows cannot find the driver it can be downloaded from our support pages.*
- Register product online
 - Download the "Registration " program. Next register the product.
 - The firmware is selected automatically.
 - Now select the required settings (satellites) from the right hand side. A maximum of 16 can be selected.
 - Download the "Maxpeak Installer" and install the firmware and settings.
 - ! *Help with product registration is available from our website, www.maxpeak.tv/support.php*



Before updating firmware and download settings, remember to be logged in with a Maxpeak user account and that the instrument is connected to the computer.

3. Update firmware and download settings:

● Firmware update

- Make sure to be logged on at the Maxpeak website and that the instrument is connected to the computer.
- In the top right menu, click 'Products'. Then in the left menu, click 'Firmware Download'.
- Follow the instructions given at the 'Firmware Download' page.

! *Help with firmware download is available from our website, www.maxpeak.tv/support.php*

● Settings download

- Make sure to be logged on at the Maxpeak website and that the instrument is connected to the computer.
- In the top menu, click 'Products'. Then in the left menu, click 'Settings Download'.
- Follow the instructions given in the 'Settings Download' page.
- Please note, the website will remember your settings from previous selections. This helps if you want to retain your last choice and simply want to update for the latest settings.
- You can add and or remove settings.

⚠ *Please note that once a setting download has taken place the previous settings are over written.*

! *Help with settings download is available from our website, www.maxpeak.tv/support.php*

4. Charging procedure



The charging socket is located under the rubber molding on the right side of the instrument.



Only use the included car or wall socket chargers for charging the meter.

The meter is delivered with a nominal charge only. It needs 24 hours of initial charge before usage. The battery reaches full capacity after a couple of charges.

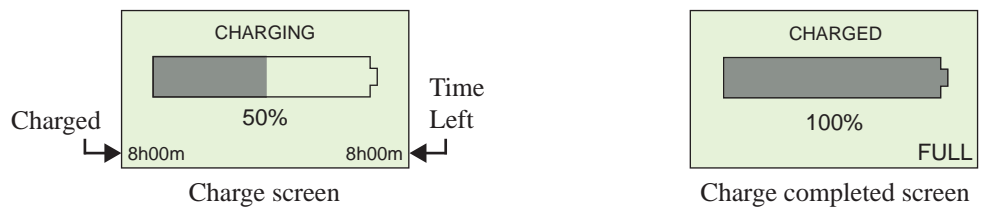
Charging procedure:

- Lift the rubber molding on the top right side of the instrument to reveal the charging socket.
- Plug the cord from either the car¹ or wall socket chargers to the instrument that are supplied with your meter.

⚠ *Please note that warranty is not valid if another non supplied charger is used.*

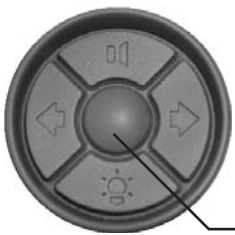
- Now the battery is charging. A full charge will take 14 hours.

ⓘ *Removing the charger from the charging socket puts the instrument in Standby-mode.*

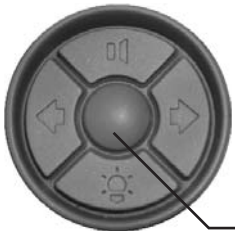


¹ Some vehicles need ignition turned on in order to provide power to the cigarette lighter socket.

5. Power up and shut down



Power Up:
Keep the Centre button
pressed.



Shut Down:
Keep the Centre button
pressed.

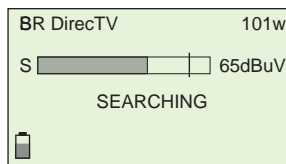
To turn the meter on, keep the “Centre” button pressed for five seconds. At startup, the following information is displayed:



Firmware and settings file versions are displayed.

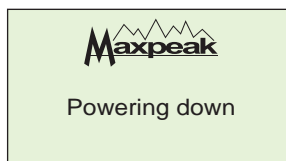
📌 *To freeze this information, keep holding the Select button.*

The meter then change to the meter view:



The meter is now up and running.
For the functionality available, please see:
Chapter 7 - To peak the dish

To shut down the meter, keep the “Centre” button pressed, (similar to when turning on the meter). When switching off, the screen below is displayed:



6. Dish installation

First find a suitable place to install the dish. It should be line of sight (use a compass to find azimuth angles (sideways). Make sure there are no overhead obstructions like trees , buildings etc.

- Next, assemble the dish according to the dish manufactures instructions.

Fit the LNB.

Preset the dish elevation (up/down) angle first. There may be a scale on the back. An inclinometer may be of use if you know the dish elevation offset angle. Set the feed rotation polarization angle too. There may be polarization rotation scale on the LNB feed horn throat. Or in some markets the dish has screws and scale on the back to set this.

Facing the satellite, clockwise polarization is positive, negative is anticlockwise. Look up the elevation and polarization in a chart (supplied with the dish) for the required satellite and location.

Next use a compass to roughly set the azimuth.

Hook up the SAM-lite meter to the LNB. Switch on the meter, gently move the dish to change from searching to found. Peak the dish for maximum Q. If reception is dual polarity peak the optimum Q for both polarities.

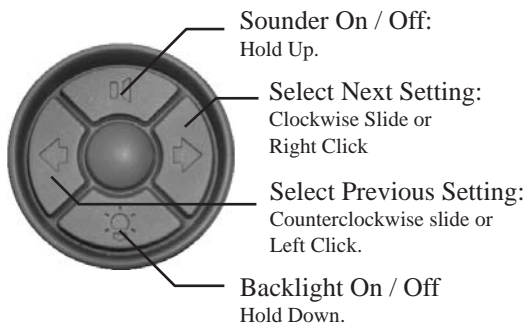
In certain markets grounding is a legal requirement of the dish.

⚠Be careful with satellite dish pointing not to injure others by dropping tools or hurting yourself by falling down.

7. Peaking the dish



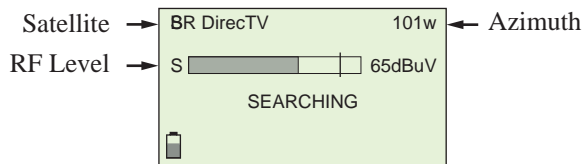
Connect the F to F lead from the LNB to the F connector at the bottom of the instrument.



- Hook up the LNB via the F to F lead.
 - ❗ *Use a screw of high quality on the F connector as it affects the readings. Do not use push-on F connectors, since they are very unreliable.*
- Connect the other end to the bottom of the meter and power up.
 - ❗ *Connect the leads first and then power up the meter since some modern multi LNB's draw a large amount of current that may cause the meter to current limit.*

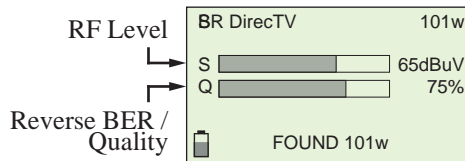
The meter view:

The search begins with parameters from the currently selected setting.



- To choose among settings, click Left / Right.

When the dish is moved for the correct satellite, the meter beeps twice and changes from “SEARCHING” to “FOUND”, indicating identification of correct satellite. A Q bar appears that need to be maximized.



8. Battery replacement



Remove the screw located at the upper back side of the instrument.



Take away the battery lid and disconnect the current battery pack.



Attach the socket of the new battery to the connector on the instrument. Put the battery pack in place and put back the lid and screw.

The meter is powered by a replaceable NiMH battery pack. As with all batteries the pack will deteriorate in time.

! *To maximise the life of the battery pack, be sure to use/discharge and recharge the meter frequently*

When the battery pack needs to be replaced, spare packs can be ordered from an authorized reseller.

! *Do not use any other kind of non original batteries. A different pack can damage the meter and invalidate the warranty.*

Battery Replacement:

Changing the battery pack is a simple procedure.

- Unscrew the screw and take away the battery lid.
- Remove the battery and disconnect the plug.
- Connect the new battery pack to the plug.
- Place the pack as shown in the bottom picture to the left.
- Initially charge the meter for 24 hours as described in Chapter 2 - Charging.

9. Specification

- C, Ku, Ka or L band
- Replaceable F-connector
- 75 Ohm imp 30 to 100 dBuV
- RF level as dBuV , range 17-87dBuV , precision to +-2.5 dB
- Quality displayed in % (reverse pre BER) , range 0.001% to 10% , precision +-5%
- RF, quality displayed together
- Backlite graphics display 128x64 dots
- Integrated rechargeable NiMH battery 11.52 W
- Charged from wall adaptor or car
- Upto 16 sats / transponders
- Upgrade of settings via USB 2.0
- Upgrade of firmware via USB 2.0
- Language option via USB 2.0
- Built in audible sounder
- Built in 22 K tone
- Run time in excess of 3 hours, charge time 14 hours
- 200x75x56 mm 400 grams

The manufacturer reserves the right to change this specification without prior notice

10. Warranty

This product carries a manufactures warranty against faults or manufacturing defects for a period of 12 month from first registration of the product on the support website www.maxpeak.tv.

Maxpeak reserve the right to replace or repair a faulty meter. The warranty does not cover misuse or damage caused by dropping the meter or if the meter has been opened.

Declaration of conformity:

We, the manufacturer, Maxpeak Ltd 2nd Floor Compton House 29-33 Church Road Stanmore HA7 4AR ENGLAND declares that SAM-lite (satellite meter) meets the following standards and directives:

Low voltage : 73/23/EEC , 93/68/EEC EMC: 61000-6-1:2001 61000-6-3:2001 and ammendment A11:2004 RoHS

P Lagerstedt (Director) Bridgetown 13:th of Feb 2007



Recycle:

Please recycle the carton and packaging.

Do not throw out the NiMH battery, recycle!

Do not discard the meter at the end of useful life, recycle!

info@maxpeak.tv

www.maxpeak.tv

