



TURN ON/OFF - HOME



- Press to turn ON
- Keep pressed 2" to turn OFF
- Press to visualize the HOME MENU

HW RESET



Press and holds for more than 10" to RESET, then turn ON

SW RESET



POWER ON and keep press VOLUME until the completely power-on

WHEEL NAVIGATION



Rotate to navigate



Press (ENTER) to select/confirm



Keep pressed 2" to visualize the drop down menu

N.B. : All the functions specified in this quick guide can be selected from the TOUCH screen if it is available and activate

MEASUREMENTS FROM HOME MENU



First select the signal type to analyze



(opz. where provided)

Then select the desired measurement mode directly



for example in SAT: PLAN, SPECTRUM, MEASURES ...

VOLUME & CONFIGURATION MENU

Press



IMPORTANT SETTINGS:

- Volume
- Brightness
- Video IN: Internal or External
- RF IN: F (75 ohm) or Optical
- Battery saving = ON or OFF
- Configuration Menu

MEMORY PLANS



After selecting the SAT, TV or CATV measurement mode press PLAN to select the required memory plan

SPECTRUM MODE



- In any measurement mode
- Press SPECT to enable spectrum analyzer mode
- Press again to enable the MAX HOLD feature (peak trace value memory)

SELECT: CHANNEL, TRANSPONDER, FREQUENCY, REF. LEVEL, SPAN, etc... IN MEAS & SPECT

- Select CHAN or TRANSP
- Navigate



OR

- Select CHAN or TRANSP
- Keep ENTER pressed 2"
- Select on a drop-down list
- Touch ENTER



FREQUENCY DIRECT SELECT in MEAS & SPECT

- Select FREQ or MRK.FR
- Key in a new value e.g. **8 4 2 . 0 0**
- Keep ENTER pressed 2"
- Press ENTER to confirm

FULL SCREEN IMAGE

Select image



to ZOOM

Press ENTER to return to measurements

AUTOMEMORY TV

to create a memory PLAN automatically in TV/CATV mode

GO TO
MEMORY MENU

Press



select



SELECT AUTO MEMORY TV

MEMORY MENU
AUTOMEMORY tv

press



WHEN IN AUTOMEMORY TV
SET FILE N.



FROM PLAN: EUROPE
TO FILE N: AUTO 1

press



SET LEVEL FOR SEARCHING



LEVEL: > 55 dBµV
DISCOVERY: TERR. ONLY

ENSURE YOU SET THE CORRECT
DISCOVERY MODE:

- TERR. only = DIG. TER. & ANALOG (47-880 MHz)
- TERR & CABLE = DIG. TER., QAM & AN. (4-1.000 MHz)
- CABLE only = QAM & ANALOG (4-1.000 MHz)

START AUTO MEMORY TV

Select **START SAVE?** (if free)

or **STAR OVERWRITE?** (if used)

SAVE
DATA
LOGGER

In **MEMORY MENU** select **SAVE DATALOGGER** select **FROM FILE:** select **Data File:**
and the **Point:** of destination, select **START SAVE?** or **START OVERW.?** press ENTER

RECALL
DATA
LOGGER

In **MEMORY MENU** select **RECALL DATALOGGER** select **Data File:**
and the **Point:** to recall. At the end select **RECALL?** and press ENTER

TV: DC at RF INPUT

in TV/CATV MEAS select

CC@RF
OFF

press the encoder, turn to select

the desired value (5, 12, 18, 24 V)



CC@RF
12 V

press to confirm

SAT: LNB or SCR/dCSS
MULTISWITCH

- Press HOME
- press SAT
- press SCR dCSS
- select LNB TYPE
- select SCR USER
- press SAT key for MEASURE or TEST for check users in Spectrum mode

TS ANALYZER

(opt. where available)

in TV MEAS select **MENU** press ENTER

select **TStreaming:** press ENTER select **ON** press ENTER

WI-FI

IN HOME
MENU SELECT



Select



to change band: 2.4 or 5 GHz

to change visualization: GRAPHIC or LIST

to enable / disable MAX HOLD: max peaks memory

to select: single reception CHANNEL, or all

OPTIC

IN HOME
MENU SELECT



Select



to access the POWER and OPTICAL ATTENUATION measurements

to access: MEASUREMENTS, IMAGES, list of services, etc ...

to select the measurement input connector: RF 75 ohm or OPTICAL

IPTV

IN HOME
MENU SELECT



Select



to access the configuration of: ADDRESS and PORT

to select the desired TV service

S.M.A.R.T PROGRAM and SOFTWARE UPGRADE PROCEDURE

The S.M.A.R.T. program (downloadable from website) allows the meter FW upgrade, is possible to handle the meter's internal memory (MANU FILE, AUTOMEMORY, LOGGER) eg. create or modify the memory plans, print or export them in EXCEL files

WARNING :

- Before carrying out your Meter's SW upgrades, we suggest you **close all the applications that are active on your PC:** e-mail messages, internet, management programs, etc;
- Also check that the Meter's batteries are charged and that the Meter is connected to the mains. Most importantly do not turn off or disconnect the Meter from the mains during the upgrade. The Meter will automatically turn off once the SW upgrade has been completed.

N.B. :

N.B.: If the graphic of your PC bar showing the upgrade advancement blocks, do not interrupt the procedure because the SW download is still taking place even if the PC monitor does not correctly show the advancement in sequence.

PROCEDURE :

- Connect your Meter to the mains and turn it on;
- Wait for the Start-Up phase of the Meter to finish correctly;
- Connect the **USB** cable, **first** to the Meter and then **to the PC**;
- Start up the **S.M.A.R.T.** program in your PC;
- In the S.M.A.R.T. program window, click on "**Instrument**", followed by "**Upgrade Firmware**";
- In the Open window, select "**SW Upgrade (.rvr)**" downloaded in your PC;
- Click on "**Open**" and confirm the selection;
- **The SW upgrade procedure will automatically start up;**
- If this does not happen, the **Upgrade Firmware** window will open, select the exact model of your Meter and click on "**Upgrade**" to carry out the Upgrade manually;
- Wait a few minutes, the S.M.A.R.T. program will load the new SW in your Meter;
- Once the download has been completed, the following message on the PC will appear:
Power on the meter to activate FW **PROGRAM SUCCESSFUL;**
- If your Meter did not automatically turn off, turn it back on again and check, in the Start-Up or Self-Test window (METER INFO - INFO ABOUT), the SW version number.

WARNING :

In the case the update is interrupted or is not successful, check the USB cable connection and repeat the procedure from the beginning.

If the procedure described in this paragraph continues to fail, contact the **After Sales and Service Department**.

SUGGESTED VALUE TO: SUBSCRIBER SOCKET, KUNDEN ANTENNEN DOSE, PRESA UTENTE, PRISE DE L'ABONNE', TOMA FINAL DE USUARIO, АБОНЕНТСКИЙ РАЗЪЕМ

DVB-S QPSK			DVB-S2 8PSK			DVB-T & H COFDM			DVB-T2 & GB COFDM			DVB-C & J83 QAM A-B		
PARAM.	MIN	TYP.	PARAM.	MIN	TYP.	PARAM.	MIN	TYP.	PARAM.	MIN	TYP.	PARAM.	MIN	TYP.
AVG PWR	40 dBµV	50 dBµV	AVG PWR	40 dBµV	50 dBµV	AVG PWR	40 dBµV	50 dBµV	AVG PWR	40 dBµV	50 dBµV	AVG PWR	45 dBµV	55 dBµV
NOISE MARG.	3 dB	6 dB	NOISE MARG.	3 dB	6 dB	NOISE MARG.	6 dB	9 dB	NOISE MARG.	6 dB	9 dB	NOISE MARG.	3 dB	6 dB
αBER post. Viterbi	2×10^{-6}	2×10^{-8}	PER 8PSK	$< 1 \times 10^{-7}$	$< 1 \times 10^{-8}$	αBER post. Viterbi	2×10^{-6}	2×10^{-8}	PER	1×10^{-7}	1×10^{-8}	bBER pre R.S.	$< 1 \times 10^{-6}$	$< 1 \times 10^{-8}$
MER QPSK 2/3 FEC	9 dB	12 dB	MER 8PSK 2/3 FEC	11 dB	14 dB	MER 64 QAM 2/3 FEC	25 dB	28 dB	MER 256 QAM 2/3 FEC	25 dB	28 dB	αBER post R.S.	$< 1 \times 10^{-8}$	$< 1 \times 10^{-8}$
MER QPSK 3/4 FEC	10 dB	13 dB	MER 8PSK 3/4 FEC	12 dB	15 dB	MER 16 QAM 2/3 FEC	20 dB	23 dB	MER 256 QAM 3/4 FEC	26,5 dB	29,5 dB	MER 64 QAM	27 dB	30 dB
MER QPSK 5/6 FEC	11 dB	14 dB	MER 8PSK 5/6 FEC	13 dB	16 dB	MER QPSK 2/3 FEC	14 dB	17 dB	MER 256 QAM 5/6 FEC	28,5 dB	31,5 dB	MER 256 QAM	31 dB	34 dB

CHARGE BATTERY EVERY NIGHT AFTER USE

Take advantage of the safety ring included in the shoulder strap to safely lock your meter while on a ladder, antenna mast, or driving in a car