



AS06-STC & AHD COMBO SIGNAL ANALYZER



DVB-S/S2



DVB-C



DVB-T/T2



AHD IN



EN USER GUIDE

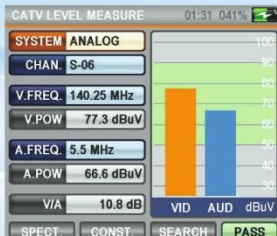
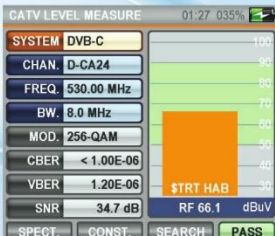
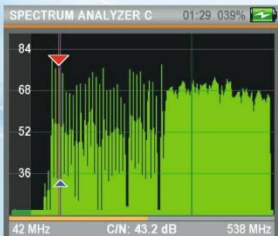
Please read this manual carefully before using your Signal Analyzer.

DE BEDIENUNGSANLEITUNG

Bitte lesen Sie diese Anleitung sorgfältig durch, bevor das Signal Analyzer.

TR KULLANIM KILAVUZU

Sinyal Analizörü kullanmadan önce lütfen bu kılavuzu dikkatlice okuyunuz.



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SAFETY INSTRUCTIONS:

Issues to be Observed:

Make sure to observe the following instructions in order to prevent yourself and your device from incurring any harm.

Pull out the charging cable before cleaning your device, and turn it off using the Power On/Off button, and clean it with a dry cloth.

Do not use accessories or additional attachments that are not recommended by the manufacturer since it may damage your device or invalidate your device's warranty. Protect your device from impacts and falls while carrying it, otherwise it might be damaged. Make sure to carry your device in its bag and do not carry it in boxes such as toolbox and with equipment which may cause damage on it, otherwise your device's warranty will become void.

Avoid using your device in outdoors in rainy and snowy weather, in order to protect it from contact with water. If you detect smoke odor or other odors or unusual sound coming from the inside of your device, turn it off and consult to technical service.

Charge your device with the recommended charging adapter and car lighter charger. Inappropriate charging devices will damage the batteries in your device, and may cause events such as overheating and explosion or it may harm you, and such cases are under the user's own responsibility. Make sure the charging adapters are supplied with 12 volts 1500mAh (middle center +). Do not leave your device open, as the batteries in devices which are left open will lose their function in time. Lighter charger, charging adapter and batteries are outside the scope of warranty since their life span varies depending on usage. Be careful against short circuits while connecting your device to LNB, otherwise the LNB and your device might be damaged.

Issues Regarding Service:

Do not attempt to repair your device yourself. Your device will no longer be within the scope of warranty if you open its cover. Consult your dealer or technical service for all services regarding the device.

Use the batteries sold or recommended by the manufacturer.

TECHNICAL SPECIFICATIONS:

MAIN FUNCTIONS:

- DVB S-S2 / T-T2 / C COMBO Signal Analyzer
- All in one 45-2150mhz 75 ohm ("F") Rf input
- AHD and CVBS video input for CCTV cameras
- 3.5" high resolution and high brightness display
- MPEG2-4 SD & HD pictures with Program List, Audio Video PIDs all on one screen.
- Support AAC supplied, DOLBY
- 800 MHz processor speed - 8MB Memory
- 3000mAh 7.4V replaceable Li-Po Battery with up to 4 hours duration
- Usb Memory Software upgrade and Frequency Database update
- Pc software for Frequency database update
- 30 Catv , 30 Terrestrial , 150 Sat programmable plan by PC or Local Keyboard.
- 5000 frequency memory
- Numeric Silicone keypad with backlight
- Power save timer functions
- dBm , dBuV and dBmV levels
- Level warnings with speaker
- Led Flash Light
- Test Voltage levels for end user
- Weight only 1 kg with battery
- Size 190mm X 110mm X 60mm
- Temperature range 0 °C to +50 °C
- Humidity Up to 90% non condensing
- With silicone case and padded bag.
- 12Volt 1.5A Charger and Car Lighter Charger

SATELLITE:

- DVB S/S2 Measuring SAT: 950 - 2150 Mhz
- -80 to 0 dBm power measurement range
- BER , MER , C/N digital measurements.
- Level Measurement Accuracy 1 dB typ. (2.5 dB max.)
- Spectrum Analyzer: Real Time Spectrum with capture
- 50 , 75 , 150 , 300 , 600 , 1200mhz Spectrum Span
- Automatically TP identifies NIT function in spectrum menu
- Tp Control : 4 Tp's Levels of one and two Satellite in one screen
- Multi Sat Level Control: Dual Feed LNB 2 satellite's levels in one screen
- Satellite Constellation: Qpsk & 8psk for Sat.
- Auto Port Scan: Diseqc 1.0-1.1-Unicable ports search for sat.
- 150 satellite's more than 2000 TP Frequency current database
- Automatic Signal Quality analysis assistant
- HD & SD Sat Tv Video
- FEC: DVB-S: 1/2, 2/3, 3/4, 5/6, 7/8 - DVB-S2: 1/2, 2/3, 3/4, 5/6, 8/9, 9/10, 2/5, 3/5
- Symbol Rate: 1 to 45MS/s Full automatic selection
- Supports DiSEqC 1.x, DiSEqC 2.x and USALS
- Unicable 1&2 EN50494/EN50607
- Lnb Power Supply : 13V/18V/21V - 500mA
- Supports 32 Lnb Type
- KA , KU , C , L / R band

CABLE TV:

- DVB C and Analog Measuring CATV : 45 - 1002 MHz
- -90 to 0 dBm power measurement range
- BER , MER , C/N digital measurements.
- Analog Catv level and V/A ratio 4dB to 26dB
- Analog Audio carrier 4,5MHz, 5,5 MHz, 6,0 MHz, 6,5 MHz
- Level Measurement Accuracy 1 dB typ. (2.5 dB max.)
- Spectrum Analyzer: Real Time Spectrum with capture
- 15 , 30 , 50 , 100 , 200 , 500 , 1000mhz Spectrum Span
- Automatically TP identifies NIT function in spectrum menu
- TILT / LIMIT Function for full band
- Automatically scan and prepare search table
- Edit Frequency Plan database by Pc or Keypad
- Catv Constellation: 16QAM, 32QAM, 64QAM, 128QAM, 256QAM
- DVB-C & QAM Annex A/C
- Symbol rate: 2 to 6.999MS/s - Automatic selection
- 6 MHz, 7 MHz, 8 MHz Channel Bandwidth
- 30 Frequency Plan more than 4000 TP Frequency
- Automatic Signal Quality analysis assistant
- HD & SD CATV Digital Video

TERRESTRIAL:

- DVB T/T2 and Analog Measuring Terr : 45 - 1002 MHz
- -90 to 0 dBm power measurement range
- BER , MER , C/N digital measurements.
- Analog Terrestrial level and V/A ratio 4dB to 26dB
- Analog Audio carrier 4,5MHz, 5,5 MHz, 6,0 MHz, 6,5 MHz
- Level Measurement Accuracy 1 dB typ. (2.5 dB max.)
- Spectrum Analyzer: Real Time Spectrum with capture
- 15 , 30 , 50 , 100 , 200 , 500 , 1000mhz Spectrum Span
- Automatically TP identifies NIT function in spectrum menu
- TILT / LIMIT Function for full band
- Automatically scan and prepare search table
- Edit Frequency Plan database by Pc or Keypad
- Terr Constellation: QPSK, 16QAM, 64QAM (DVB-T) 256QAM (DVB-T2)
- FEC : DVB-T: 1/2, 2/3, 3/4, 5/6, 7/8 , DVB-T2:1/2, 2/3, 3/4, 5/6, 7/8, 3/5, 4/5
- 1.7 MHz , 5MHz , 6 MHz, 7 MHz, 8 MHz Channel Bandwidth
- 30 Frequency Plan more than 4000 TP Frequency
- 5V / 12V / 20V-250mA antenna power supply
- Automatic Signal Quality analysis assistant
- HD & SD TERR Digital Video

FRONT CONTROL PANEL VIEW



EQUIPMENT INCLUDED WITH THE PRODUCT:

1 piece of Silicone Cover with Shoulder Strap:



The silicone cover with shoulder strap protects your device from negative external factors such as dust, dirt and fall down. The protective cover cannot protect against squeezing and heavy impacts. Your device may become outside the scope of warranty.

1 piece of 220V Charging Device:



With your 12 Volt output electrical charging adapter, you can ensure your device is kept charged all the time, and thus use your device in environments where electricity is not available. Prevent your charging adapter from squeezing, impacts and overload. Do not open for repairing or examining.

1 piece of Lighter Charging Device:



With your 12 Volt output lighter charging adapter, you can ensure your device is kept charged all the time, and thus use your device in environments where electricity is not available. You can charge your device while you are driving your car. Prevent your lighter charging adapter from squeezing, impacts and overload. Do not open for repairing or examining.

1 piece of A-V Cable:



You can test the external Video and Audio signals with the AV input of your device. You can also test devices such as security cameras which require focus and direction adjustment.

1 piece of F Female Connector:



Use your F-F Female Connector in your device all the time. With the F-F Female Connector, the Tuner input of your device will not be affected by factors such as wearing, tearing and overuse.

1 piece of Carrying Bag:

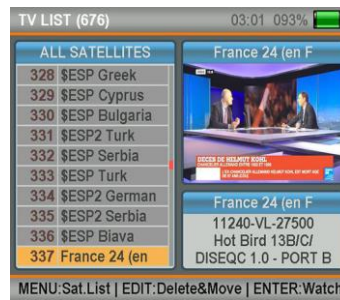


The Carrying Bag with shoulder strap protects your device from negative external factors such as dust, dirt and fall down. You can carry your device with this bag.

SATELLITE MEASUREMENT USER INSTRUCTIONS:

STARTING THE DEVICE:

Press the POWER ON/OFF button and turn your device on. Please choose DVB S/S2 for satellite MENU. On the TV broadcast screen will the TV/Radio channel list appear with the ENTER button.



SOUND ADJUSTMENT:

While watching any channel, you can change the sound volume with the RIGHT/LEFT buttons or shut it complete off with the MUTE button.



COLOUR ADJUSTMENT:

While watching any channel, you can change the colour settings of the image when you keep the EDIT button pressed.



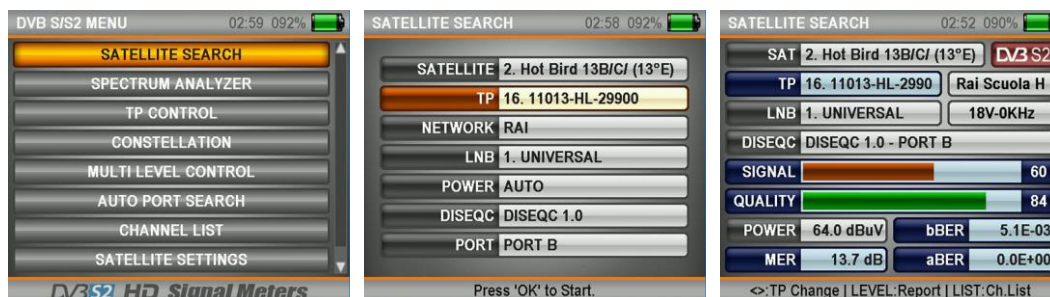
LEVEL INDICATOR:

While watching any channel, you can instantly the signal levels of the watched channel on the screen in real time when you press on the LEVEL button. Beside this, the colour of the level indicators will turn from grey to green and red when you lock on any channel.



SATELLITE SEARCH MENU:

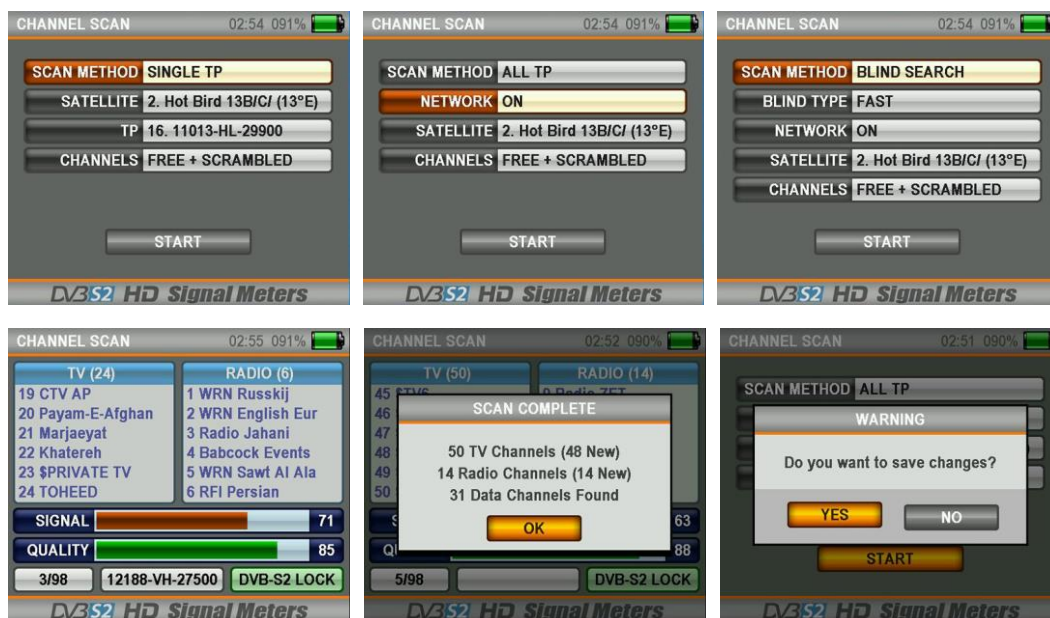
Call the MAIN MENU to the screen by pressing on the MENU button and select the SATELLITE SEARCH menu by using the down - up buttons. Select the satellite you want to set your satellite dish or see the signal levels of, the transponder, the Diseqc type and the LNB type and press on ENTER.



You can see the signal levels on the screen that appears. You can check whether the signal levels have the highest values or not. By pressing the LEVEL button, you can see the levels on the detailed screen. You can change the ordered transponders with the RIGHT/LEFT buttons.



After having adjusted the signal level in the best way, you can press on the ENTER button and perform a CHANNEL SCAN. You can perform the scan processes as SINGLE TP/ALL TP and BLIND SCAN, and then add the detected channels to the CHANNEL LIST by following the instructions indicated in the figures below.



Thus, the channels are recorded into the memory and added to the end of the CHANNEL LIST.

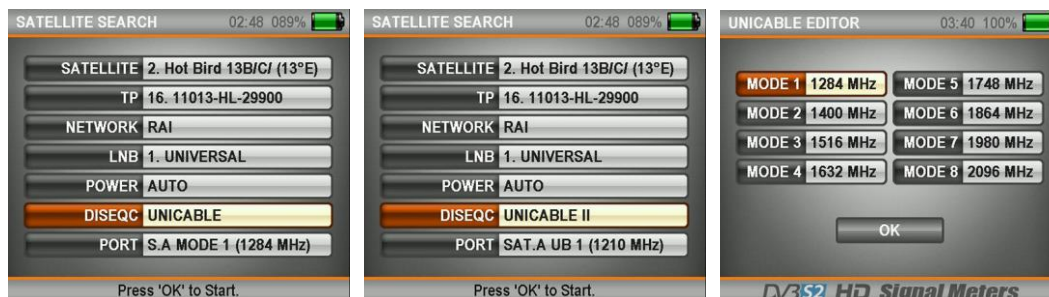
USALS MOTOR SETTING:

Select the DISEQC type as USALS MOTOR in order to use the Diseqc Motors with Usals commands. Go ver to the USAL SETTINGS menu by holding the EDIT button pressed for 2-3 seconds. Enter the coordinates of the region, where you will perform the satellite setting and mark the OK box and the SATELLITE DISH will AUTOMATICALLY go to the position of the satellite, when you then go to the GO box and press on ENTER.



UNICABLE I&II SETTINGS MENU:

You can use this menu for the UNICABLE Multiswitch or Unicable SCR LNB types and conduct the tests after having performed these settings. First, select the DISEQC type as UNICABLE and go to the PORT section and keep the EDIT button pressed for 2-3 seconds.



You can adjust on this screen the output IF frequencies according to the Unicable Multiswitch or Unicable SCR LNB type you will test. Then you can test the signals from the SATELLITE SETTINGS menu.



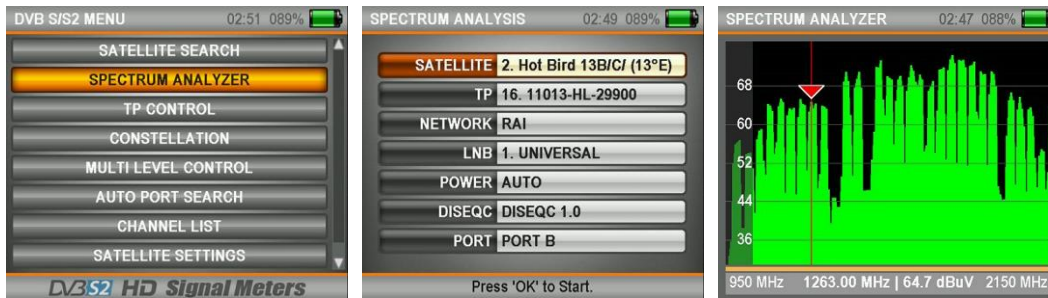
DISEQC 1.2 MOTOR SETTING MENU:

First select in the DISEQC TYPE section the option Diseqc 1.2 Motor and go to the SATELLITE SETTINGS menu signal levels by pressing on the ENTER button. Here you can view the signal levels and at the same time manually rotate with the RIGHT/LEFT buttons your Diseqc 1.2 Motor in EAST/WEST directions. Your battery could be discharged faster than normal since the DISEQC MOTOR will consume more power in this menu. Please keep your charging device available at this scan type.

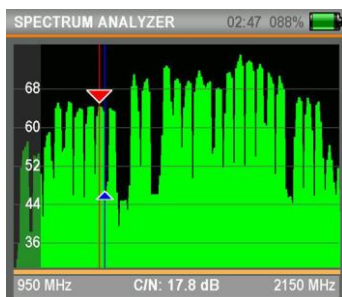


SPECTRUM ANALYSIS MENU:

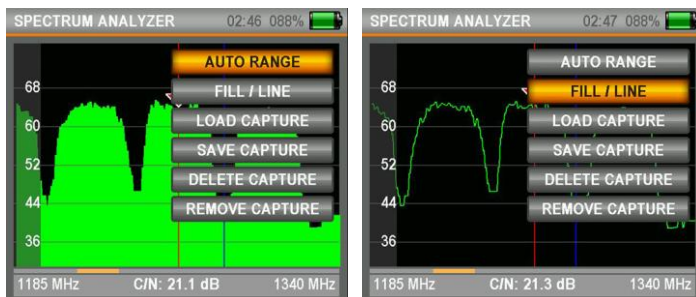
Press on the MENU button and select the SPECTRUM ANALYSIS box in the MAIN MENU. After having performed your Satellite, LNB Voltage, Scan Width and Diseq-c setting, select the IF frequency you want and press on the OK button.



The C/N value will appear, when you press once on the LEVEL button on this screen.



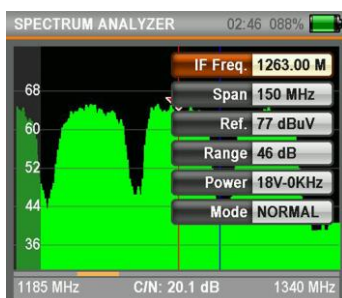
You can record the spectrum levels on the screen into the memory with the CAPTURE RECORD function when you press on the MENU button on the SPECTRUM ANALYSIS screen and LOAD these from the memory during your next assembly and perform again an installation with the same settings.



You can change the SPECTRUM SPEED via the SPEED box. But some signal levels might not be shown detailed in the FAST mode.

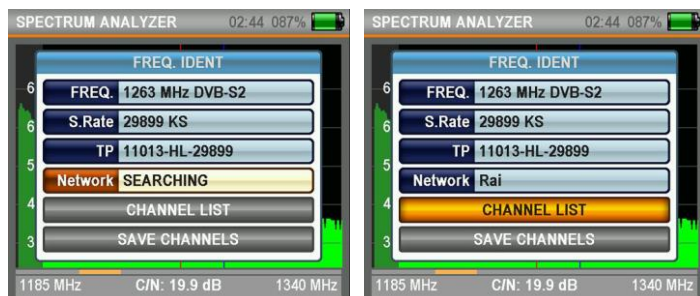
You can fit the upper and lower signal levels into the automatic measurements levels screen in the AUTO RANGE mode.

You change the IF Frequency, BANDWIDTH and LNB VOLTAGE values by pressing on the EDIT button.

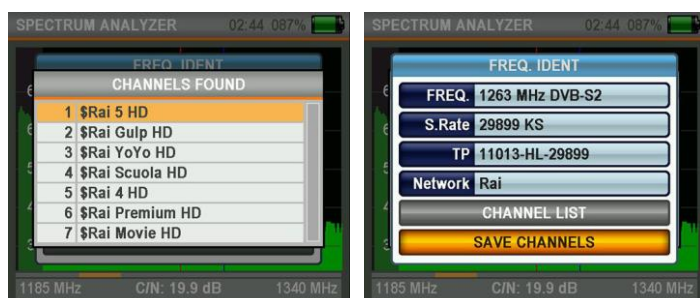


NIT RECOGNITION FEATURE:

You can find the CHANNEL LIST and the SATELLIRE Position in Uplink automatically by pressing the ENTER button when you have moved the IF Frequency cursor on a signal in the Spectrum Analysis menu.



NOTE: The satellite name might be indicated wrong due to the information in the NIT data in some cases when the NIT data in the signals transmitted by the broadcasting institution should be faulty or when the broadcasting company broadcasts to 2-3 satellites simultaneously.



You can see the channel lists, and record the channels into the memory with the setting performed with the Universal LNB.

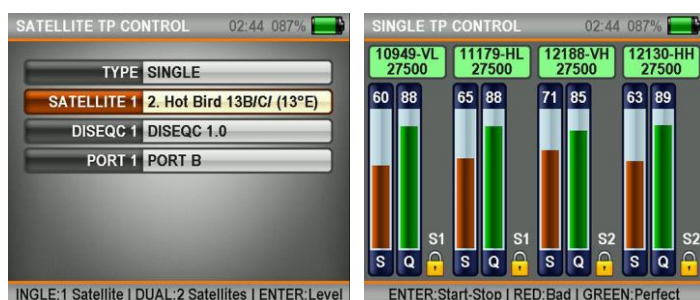
SATELLITE TP CONTROL MENU:

Press on the MENU button and select from the MAIN MENU the option SATELLITE TP CONTROL. The Satellite TP Control menu allows also the indication of the signal levels of multiple TP frequencies.



SINGLE SATELLITE CONTROL:

Select SINGLE as type and press on ENTER after having performed the necessary SATELLITE settings. As to be seen on the screen; it possible to visualize the signal levels of 4 different frequencies from 1 satellite on the same screen. With this, you can control whether the signal levels and antenna setting are correct at all frequencies, or not.



DOUBLE SATELLITE CONTROL:

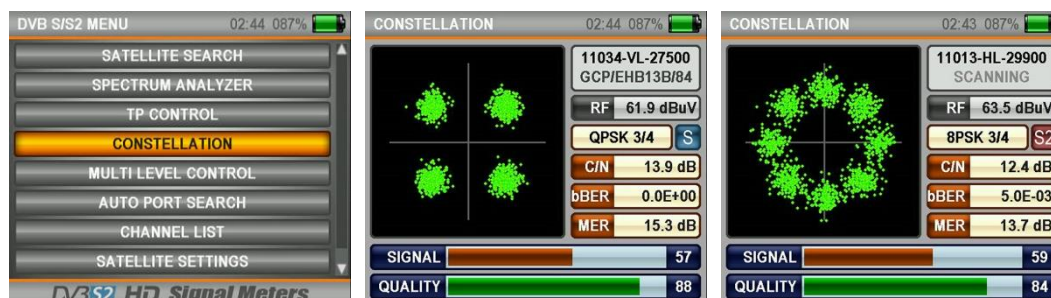
Select DOUBLE as type and press on ENTER after having performed the necessary SATELLITE settings.



As to be seen on the screen; it possible to visualize the signal levels of 8 different frequencies from 2 satellite on the same screen. You can test and control the correctness of the Multiswitch and System assembly by visualizing all frequencies on the same screen.

CONTELLATION MENU:

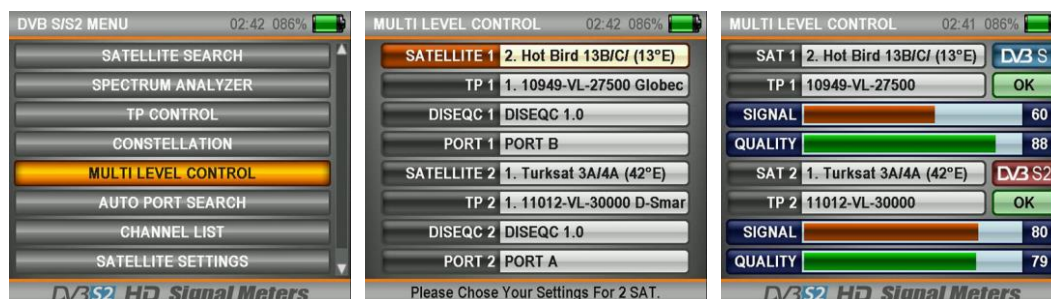
Press on the ENTER button and select CONSTELLATION in the MAIN MENU. The constellation menu shows the correctness of the digital I/Q symbol coordinates received at any time in a graphic. With this, you can also check the correctness of the performed modulation (like QPSK, 8PSK).



Enter the constellation menu, select the satellite and the TP frequency, of which you will check the correctness and press on the ENTER button after you have performed your settings. In the constellation diagram have the QPSK signals 4, the 8PSK signals 8 coordinate points. The closer these coordinate points are to each other, the more increases the correctness.

MULTILEVEL CONTROL MENU:

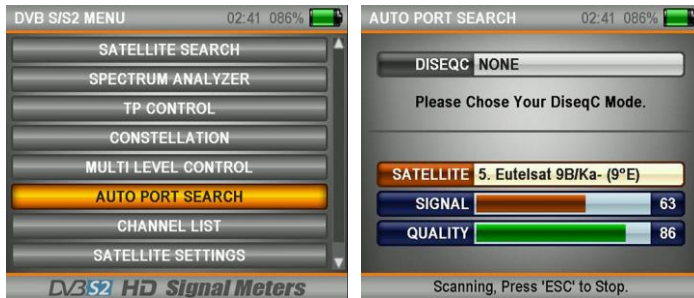
Press on the MENU button and select MULTILEVEL CONTROL in the MAIN MENU.



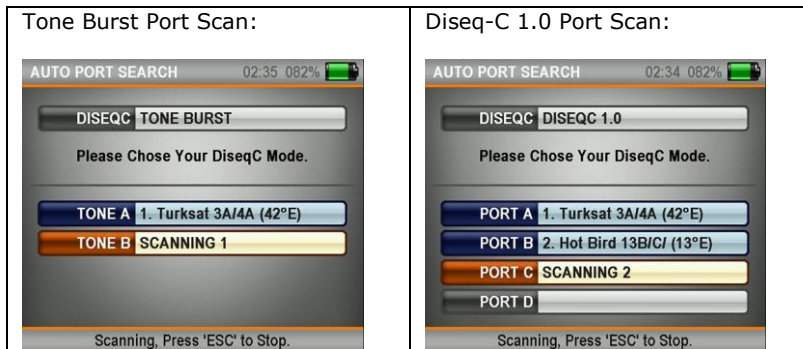
In the Multilevel Control Menu are the signal levels of each one frequency from 2 different satellites indicated on the same screen. With this can Monoblock LNB installations and Multiswitch tests be performed very easily.

AUTO PORT SCAN MENU:

Press on the MENU button and select AUTO PORT SCAN in the MAIN MENU. You can see in this menu which satellite is connected to which Diseq-C port.



Select NONE/NA in cases, where no Diseq-C swich is available and the cable is directly connected to the LNB

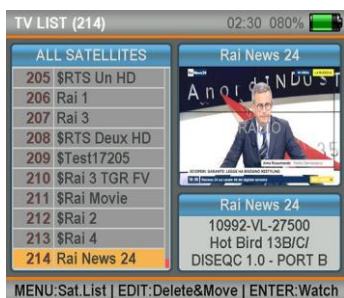


CHANNEL LIST MENU:

You can call the CHANNEL LIST by pressing on the ENTER button in the MAIN MENU while watching any channel.



You can select, cancel and relocate in the Channel List menu the TV and Radio channels one by one or according to the satellite name.



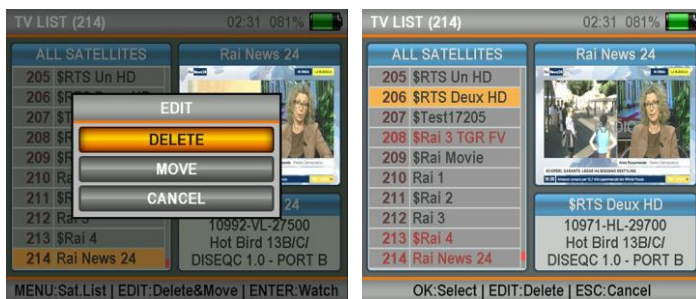
ORDERING BY SATELLITE:

After having entered into the CHANNEL LIST menu, press on the MENU button and select the SATELLITE. In this case will only the channels of the selected satellite be displayed.



CHANNEL DELETE:

Press on the EDIT button when you are in the CHANNEL LIST menu and select the DELETE box.



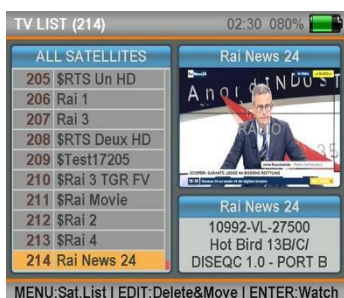
Select the channels you want to delete on the screen one by one with the ENTER button and finally press on EDIT. The channels will be permanently deleted when you check YES to the question "RECORD?" while leaving all menus.

MOVE CHANNELS:

Press on the EDIT button when you are in the CHANNEL LIST menu and select the RELOCATE box.

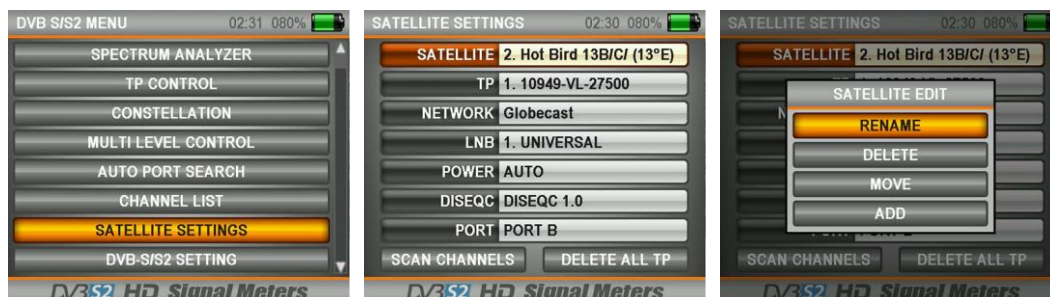


Select the channels you want to relocate one by one with the ENTER button and press on the EDIT button when you are at the position you want to relocate them. The channels will be relocated to the position you wish when you check YES to the question "RECORD?" while leaving all menus.

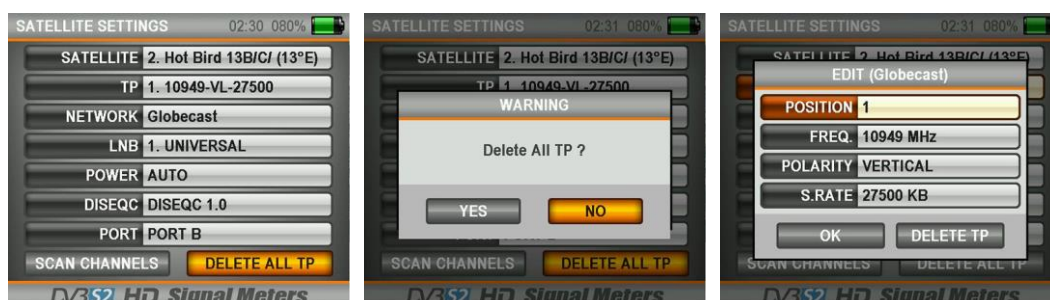


SATELLITE SETTINGS MENU:

You can fix the Diseq-C and LNB types suitable for the satellites and TP frequencies in the region you provide services in this menu. With this will the settings be used you have performed in all menus and you will be able to set faster. (Please always control the correctness of your settings since some menus are using these settings.)

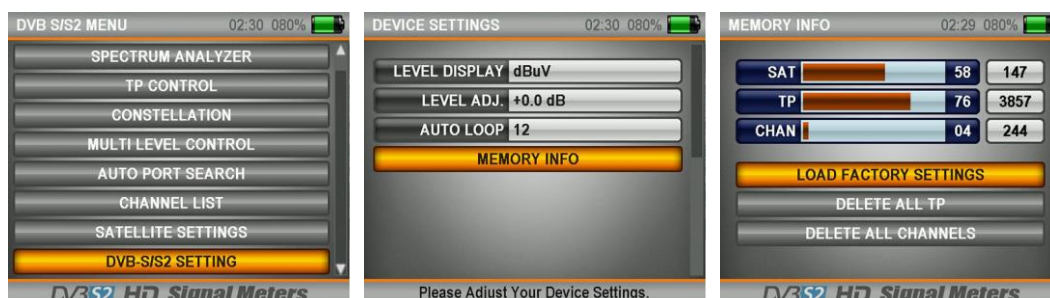


Beside this, you can delete ALL TPs of the satellites and perform a CHANNEL SCAN for these satellites in this menu.



DVB-S/S2 SETTINGS:

You can perform the valid changes in the DVB S/S2 menus through the SETTINGS MENU. You can change active region for the Satellite list.



INDICATOR: Shows the power level indicators in dBm, dBuV and dBmV.

LEVEL SETTING: You can calibrate it when you think that the signal measurement indicator is low or high.

AUTO CONVERSION: You can select in the Automatic Satellite and Port Recognition menus the number of the satellites you want to be controlled.

MEMORY INFORMATION: You can check how much memory is used in the satellite section.

ANALOGUE and DIGITAL CABLE TV USER INSTRUCTIONS:

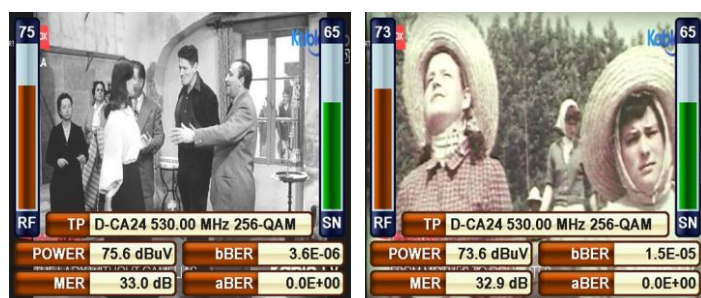
STARTING THE DEVICE:

Press the POWER ON/OFF button and turn your device on. Select the DVB-C box in the STC MAIN MENU; the TV/Radio channel list will appear on the screen.



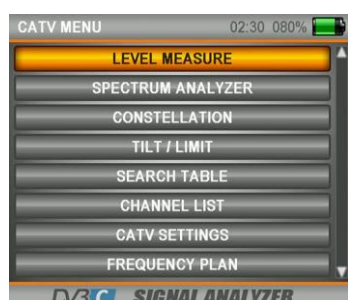
LEVEL INDICATOR:

While watching any channel, you can instantly the signal levels of the watched channel on the screen in real time when you press on the LEVEL button.



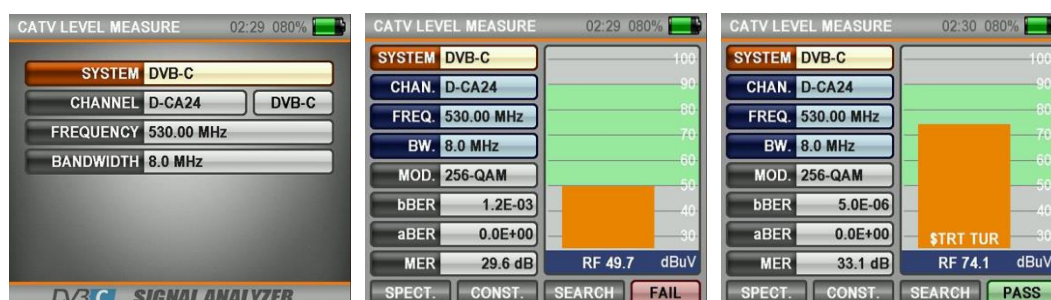
LEVEL MEASUREMENT MENU:

Press on the MENU button and go to the CATV MENU screen and start performing the measurement by selecting the LEVEL MEASUREMENT box. You can perform in the CATV LEVEL MEASUREMENT menu the measurement of the ANALOGUE and DVB-C QAM digital frequencies in the frequency plan you have selected.



DVB-C / QAM MEASUREMENT:

Select DVB-C in the SYSTEM box in the CATV LEVEL MEASUREMENT menu. Use the RIGHT/LEFT buttons in order to select the CHANNEL and FREQUENCY you want to measure, or go on FREQUENCY and enter the frequency you wish and select a bandwidth of 6, 7, 8 MHz for the DVB-C measurement.



Go to the measurement screen by pressing on the OK button after you have entered the parameters of the frequency you want to measure. The orange, thick bar on the right of this screen indicates the signal level visually. The signal level is indicated in figures below the orange bar. You can see from the green area whether the Orange Level Performance Bar is within the Max and Min values you will select in the settings menu. And on the left side of the screen, you can see the frequency parameters and the signal values like MODULATION, BER, MER. A FAILURE indication will appear in the small box in the right bottom when the signal values are insufficient and an OK indication when the signal values are appropriate. The Channel names will be indicated in the orange bar, when the signal levels are appropriate. You can see the names of the channels in the frequency you have measured by pressing on the LIST button. Note: You can jump fast to the other menus related to the frequency you have measured with the SPECTRUM, CONSTELLATION and SEARCH boxes at the very bottom. Detailed information will be provided in the following pages with regards to the Spectrum Analysis and Constellation features.

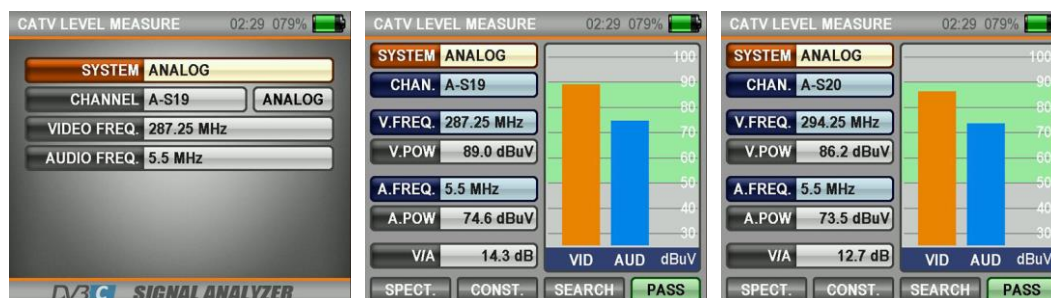
SEARCHING A CHANNEL ON THE FREQUENCY AND RECORDING INTO THE CHANNEL LIST:

Go down to the "SEARCH" box in the right bottom section on a frequency you are sure that the signal levels are appropriate and press on the OK button. You can perform a scan on the CHANNEL SEARCH screen by selecting the options NON-CODED and ENCODED and both together. The channels you scanned will be found and then the information screen will appear and you will be asked whether you want the channels to be recorded or not.



ANALOGUE CABLE TV MEASUREMENT:

Select ANALOGUE in the SYSTEM box in the CATV LEVEL MEASUREMENT menu. Use the RIGHT/LEFT buttons in order to select the CHANNEL and FREQUENCY you want to measure. You can enter the Video Frequency and Sound Frequency information for the ANALOGUE CATV measurement with the EDIT button by moving on the boxes.



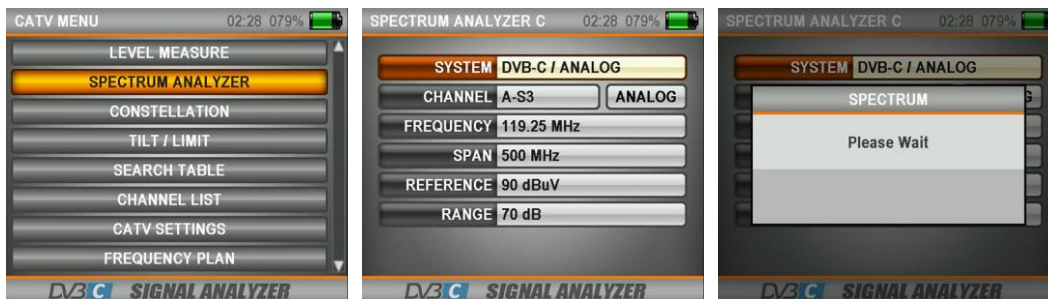
Go to the measurement screen by pressing on the OK button after you have entered the parameters of the frequency you want to measure. On this screen you can see the Channel Name, the Video Frequency Strength, the Sound Frequency, the Sound Frequency Strength and the delta difference between VIDEO/AUDIO in dB format. And you can accelerate your visual measurement by the signal strength bars on the right side of the screen changing depending on the level and being orange for the Video Frequency Strength and blue for the Sound Frequency Strength. You can see from the green area whether the Orange Video Level Performance Bar and the Blue Sound Level Performance Bar are within the Max and Min values you will select in the settings menu.

A FAILURE indication will appear in the small box in the right bottom when the signal values are insufficient and an OK indication when the signal values are appropriate.

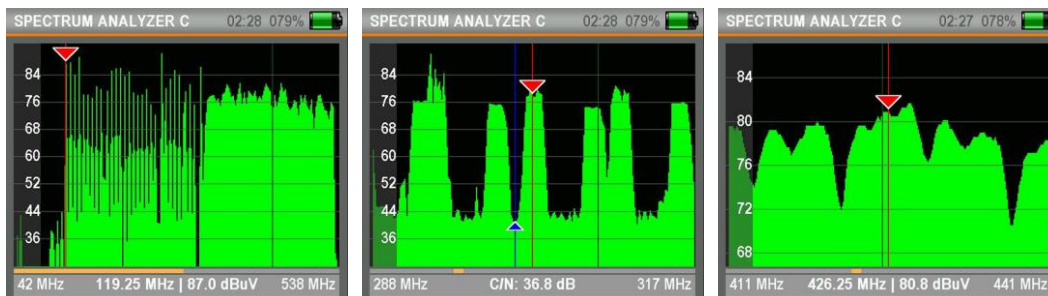
Note: You can jump fast to the other menus related to the frequency you have measured with the SPECTRUM box at the very bottom. Detailed information will be provided in the following pages with regards to the Spectrum Analysis features.

SPECTRUM ANALYSER MENU:

Press on the MENU button and go to the CATV MENU screen and start performing a measurement by selecting the SPECTRUM ANALYSER box. The device will display all ANALOGUE and DIGITAL carrier signals determined to be within the span (the frequency range) when it is set over to the SPECTRUM ANALYSIS measurement mode.

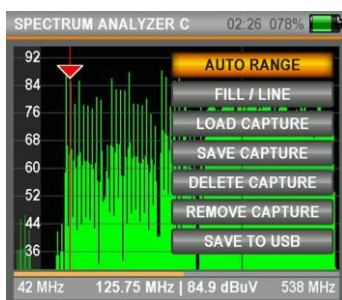


Please select the ANALOGUE or DIGITAL frequency, the WIDTH (the frequency area), the REFERENCE (upper measurement point) and the RANGE (the range between the upper and lower measurement points).



The ANALOGUE and digital signals can be displayed in different forms on the spectrum screen depending on the band widths and the strength levels.

Clicking on the MENU button:



The screen above will appear when we click on the MENU button while you are in the Spectrum screen.

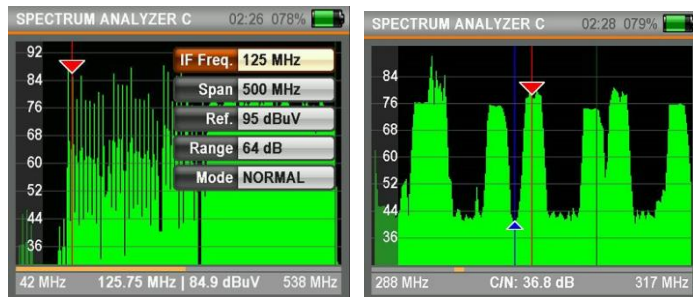
AUTO RANGE: Determines the top and lowest levels of the signal levels and establishes the screen indicator range according to this.

LINE/FILLED: Shows the spectrum image in lines or filled.

SPECTRUM CAPTURE: Records the spectrum image on the screen and you can call this lined visualization at a later time and compare it with the last measurement you have performed.

SAVE TO USB: You can record the image data on the spectrum screen on your USB memory card.

Clicking on the LEVEL & EDIT button:



The Marker will show the C/N value at a point in accordance with the frequency on the screen when the LEVEL button is pressed.

When you change the Marker's IF FREQUENCY will the marker exactly pursuant to the change slowly move on the spectrum when the EDIT button is pressed.

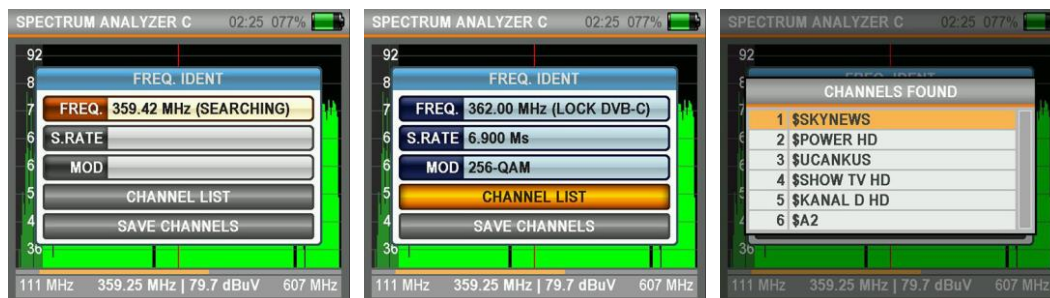
SPAN: You can display the frequency range you wish on the screen by selecting one of the options among FULL/15/30/50/100/200/500MHz.

REFERENCE: Determined the measurement point

RANGE: Determines the range between the lowest measurement point and the top measurement point.

MODE: The spectrum will move at the optimal speed when NORMAL is selected. The spectrum will move faster when FAST is selected, even if the image shouldn't be displayed that detailed.

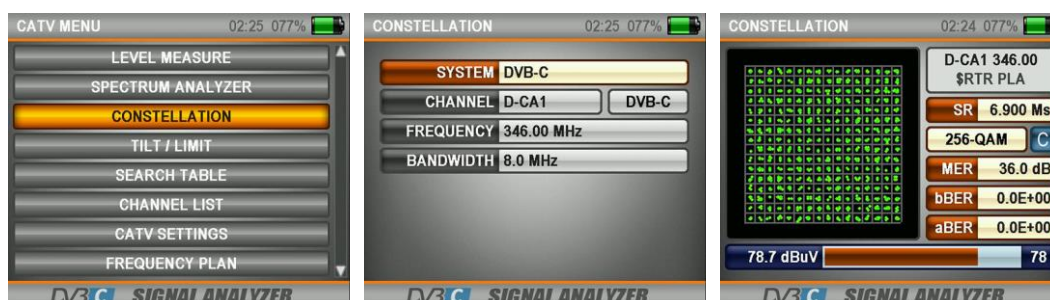
Clicking on the OK button:



When you move your marker to any signal top point on the spectrum screen and press on OK, then will this find automatically any digital broadcast of this frequency, if any. You can click on the CHANNEL LIST and see the names of the channels. You can record the channels you have found into the memory by clicking on the RECORD CHANNELS box.

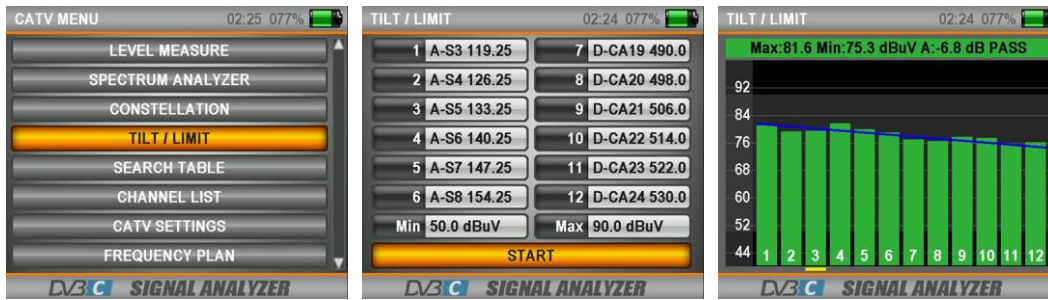
CONSTELLATION MENU:

Press the MENU button and go to the CATV MENU screen and here you can start measuring by selecting the CONSTELLATION box. The constellation screen is a professional screen, where you can see the quality of the digital signal you have measured.



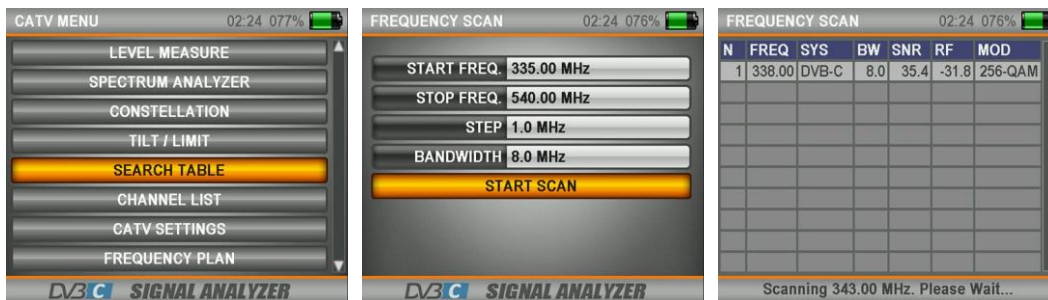
You can see on the same screen both the constellation and the other signal parameters and perform rapid and reliable measurements.

TILT/LIMIT MENU:

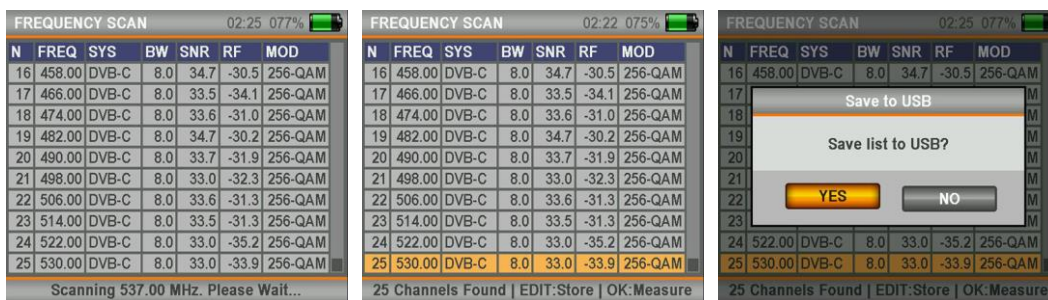


The Tilt/Limit List test is an efficient solution for controlling the order of the cable system and the further weakening of the wave at high frequencies. AS06STC can acquire the levels of 12 channels and observe the measurement result, graphics easily. You can select the start of the first 6 frequencies of the group and the last 6 frequencies as of the end of the group. Then you can control the inclination and arrange the amplifiers and elements according to this inclination.

SEARCH TABLE MENU:



AS06STC uses the channel scan function in order to test the order and gain of the DVB-C QAM Cable TV system rapidly. You can select the step range and the end frequencies and scan all the signals within the band at one of the bandwidths of 6, 7, 8 MHz.



A table similar to the figure above will appear after you have scanned the band you have selected. When you go on a frequency in this table a click on OK, then you can measure this channel in real time. You can download the signal parameters on a USB memory card when you press on the EDIT button.

CHANNEL LIST:

You can display the CHANNEL LIST from the MAIN MENU while watching any channel or watch it by pressing on the ENTER button.



EDITING THE CHANNEL LIST

Go over the channels and press on the EDIT button and then select any of the DELETE, RELOCATE options and mark the channel you want to process. Select once again when you want to delete it, and move the cursor to the position you want, when you want to relocate it. You can exit by responding YES to the RECORD CHANGES option after you have completed your process.



CATV SETTINGS:

You change your DVB-C QAM settings from this menu.

POWER UNIT: You can use the power level as dBuV, dBm, dBuV.

CALIBRATION: You can change your calibration level with these settings when you want to see your measurement levels high or low.

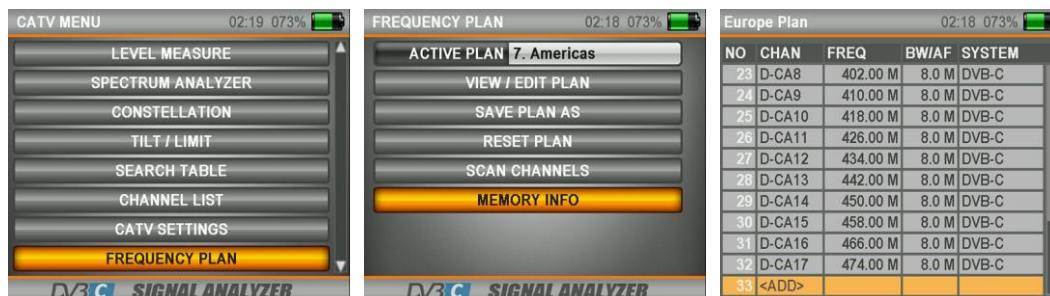
MIN & MAX POWER: You can change your measurement strength level with the settings.

MAX BER: You can change your measurement BER maximal limit with the settings



FREQUENCY PLAN:

You can edit the appropriate frequencies in the region you are providing services in this menu. Thus will your frequency plan be used with the settings you have made in all other menus and you will be able to perform faster measurements. (Always control the correctness of the settings, since these settings are used in some menus.)



You can scan all channels and control the memory data for the CATV frequency plans and channel lists.

ANALOGUE & DIGITAL TERRESTRIAL USER INSTRUCTIONS:

STARTING THE DEVICE:

Press the POWER ON/OFF button and turn your device on. Select the DVB T/T2 box in the STC MAIN MENU; the TV/Radio channel list will appear on the screen.



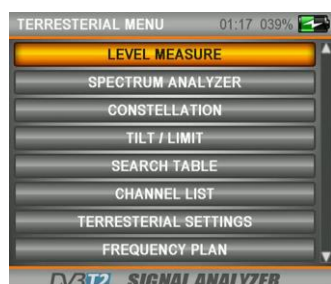
LEVEL INDICATOR:

While watching any channel, you can instantly the signal levels of the watched channel on the screen in real time when you press on the LEVEL button.



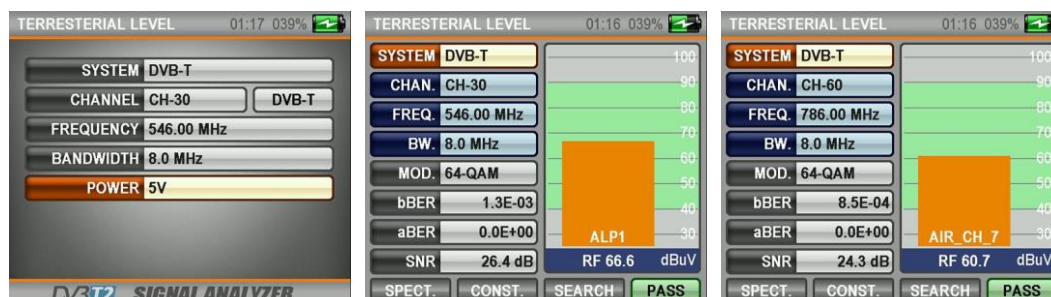
LEVEL MEASUREMENT MENU:

Press on the MENU button and go to the TERRESTRIAL TV MENU screen and start performing the measurement by selecting the LEVEL MEASUREMENT box. You can perform in the TERRESTRIAL LEVEL MEASUREMENT menu the measurement of the ANALOGUE TV and DVB-T/T2 digital frequencies in the frequency plan you have selected.



DVB-T/T2 LEVEL MEASUREMENT:

Select DVB-T/T2 in the SYSTEM box in the DVB-T/T2 LEVEL MEASUREMENT menu. Use the RIGHT/LEFT buttons in order to select the CHANNEL and FREQUENCY you want to measure, or go on FREQUENCY and enter the frequency you wish and select a bandwidth of 1.7, 5, 6, 7, 8 MHz for the DVB-T/T2 measurement. There may be amplifiers at terrestrial TV antennas, you might need to select a supply voltage of 5V, 12V, 20V in this case.

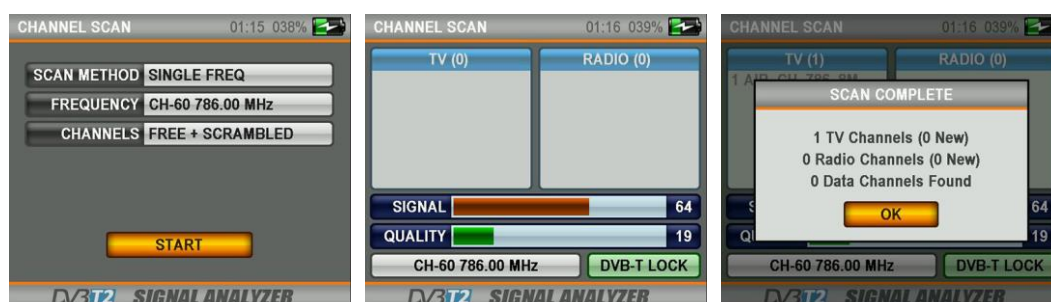


Go to the measurement screen by pressing on the OK button after you have entered the parameters of the frequency you want to measure. The orange, thick bar on the right of this screen indicates the signal level visually. The signal level is indicated in figures below the orange bar. You can see from the green area whether the Orange Level Performance Bar is within the Max Min values you will select in the settings menu. And on the left side of the screen, you can see the frequency parameters and the signal values like MODULATION, BER, MER. A FAILURE indication will appear in the small box in the right bottom when the signal values are insufficient and an OK indication when the signal values are appropriate. The Channel names will be indicated in the orange bar, when the signal levels are appropriate. You can see the names of the channels in the frequency you have measured by pressing on the LIST button.

Note: You can jump fast to the other menus related to the frequency you have measured with the SPECTRUM, CONSTELLATION and SEARCH boxes at the very bottom. Detailed information will be provided in the following pages with regards to the Spectrum Analysis and Constellation features.

SEARCHING A CHANNEL ON THE FREQUENCY AND RECORDING INTO THE CHANNEL LIST:

Go down to the "SEARCH" box in the right bottom section on a frequency you are sure that the signal levels are appropriate and press on the OK button. You can perform a scan on the CHANNEL SEARCH screen by selecting the options NON-CODED and ENCODED and both together. The channels you scanned will be found and then the information screen will appear and you will be asked whether you want the channels to be recorded or not.



ANALOGUE TERRESTRIAL TV MEASUREMENT:

Select ANALOGUE in the SYSTEM box in the TERRESTRIAL TV LEVEL MEASUREMENT menu. Use the RIGHT/LEFT buttons in order to select the CHANNEL and FREQUENCY you want to measure. You can enter the Video Frequency and Sound Frequency information for the ANALOGUE TERRESTRIAL TV measurement with the EDIT button by moving on the boxes. There may be amplifiers at terrestrial TV antennas, you might need to select a supply voltage of 5V, 12V, 20V in this case.



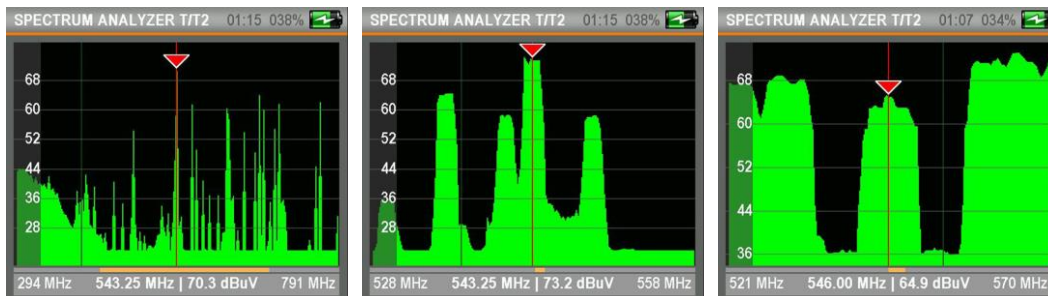
Go to the measurement screen by pressing on the OK button after you have entered the parameters of the frequency you want to measure. On this screen you can see the Channel Name, the Video Frequency Strength, the Sound Frequency Strength and the delta difference between VIDEO/AUDIO in dB format. And you can accelerate your visual measurement by the signal strength bars on the right side of the screen changing depending on the level and being orange for the Video Frequency Strength and blue for the Sound Frequency Strength. You can see from the green area whether the Orange Video Level Performance Bar and the Blue Sound level Performance Bar are within the Max and Min values you will select in the settings menu. A FAILURE indication will appear in the small box in the right bottom when the signal values are insufficient and an OK indication when the signal values are appropriate. Note: You can jump fast to the other menus related to the frequency you have measured with the SPECTRUM box at the very bottom. Detailed information will be provided in the following pages with regards to the Spectrum Analysis features.

SPECTRUM ANALYSER MENU:

Press on the MENU button and go to the TERRESTRIAL MENU screen and start performing a measurement by selecting the SPECTRUM ANALYSER box. The device will display all ANALOGUE and DIGITAL carrier signals determined to be within the span (the frequency range) when it is set over to the SPECTRUM ANALYSIS measurement mode.

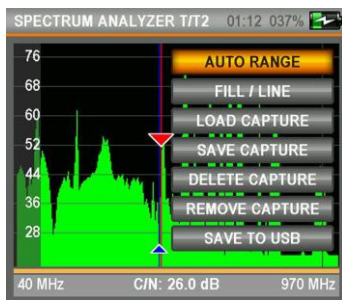


Please select the ANALOGUE or DIGITAL frequency, the WIDTH (the frequency area), the REFERENCE (upper measurement point) and the RANGE (the range between the upper and lower measurement points). There may be amplifiers at terrestrial TV antennas, you might need to select a supply voltage of 5V, 12V, 20V in this case.



The ANALOGUE and digital signals can be displayed in different forms on the spectrum screen depending on the band widths and the strength levels.

Clicking on the MENU button:



The screen above will appear when we click on the MENU button while you are in the Spectrum screen.

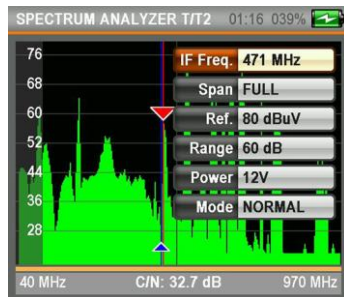
AUTO RANGE: Determines the top and lowest levels of the signal levels and establishes the screen indicator range according to this.

LINE/FILLED: Shows the spectrum image in lines or filled.

SPEKTRUM CAPTURE: Records the spectrum image on the screen and you can call this lined visualization at a later time and compare it with the last measurement you have performed.

SAVE TO USB: You can record the image data on the spectrum screen on your USB memory card.

Clicking on the LEVEL & EDIT button:



The Marker will show the C/N value at a point in accordance with the frequency on the screen when the LEVEL button is pressed.

When you change the Marker's IF FREQUENCY will the marker exactly pursuant to the change slowly move on the spectrum when the EDIT button is pressed.

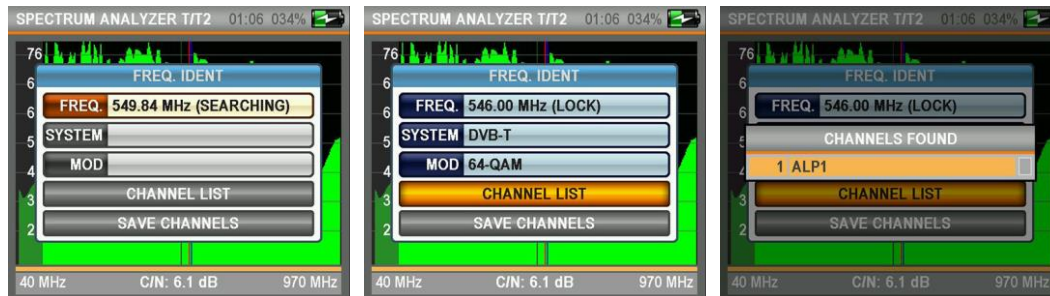
SPAN: You can display the frequency range you wish on the screen by selecting one of the options among FULL/15/30/50/100/200/500MHz.

REFERENCE: Determined the measurement point

RANGE: Determines the range between the lowest measurement point and the top measurement point.

MODE: The spectrum will move at the optimal speed when NORMAL is selected. The spectrum will move faster when FAST is selected, even if the image shouldn't be displayed that detailed.

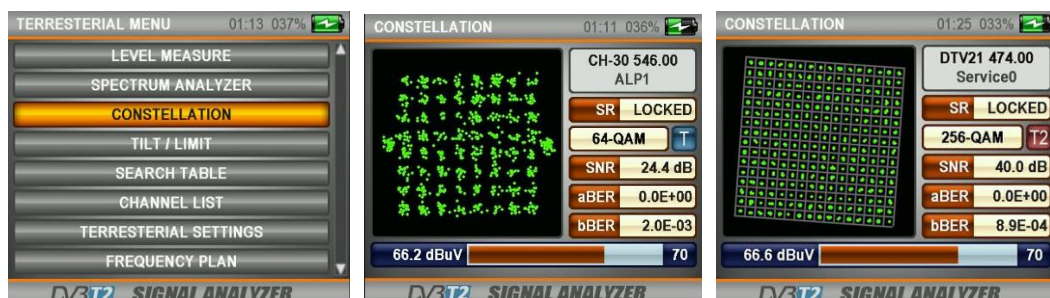
Clicking on the OK button:



When you move your marker to any signal top point on the spectrum screen and press on OK, then will this find automatically any digital broadcast of this frequency, if any. You can click on the CHANNEL LIST and see the names of the channels. You can record the channels you have found into the memory by clicking on the RECORD CHANNELS box.

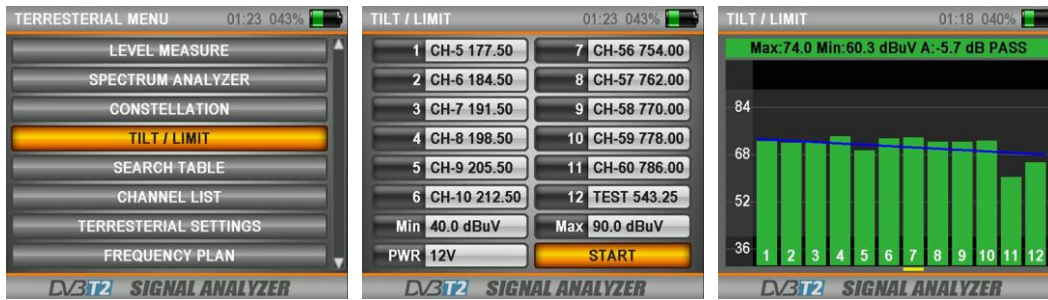
CONTELLATION MENU:

Press the MENU button and go to the TERRESTRIAL TV MENU screen and here you can start measuring by selecting the CONSTELLATION box The constellation screen is a professional screen, where you can see the quality of the digital signal you have measured.



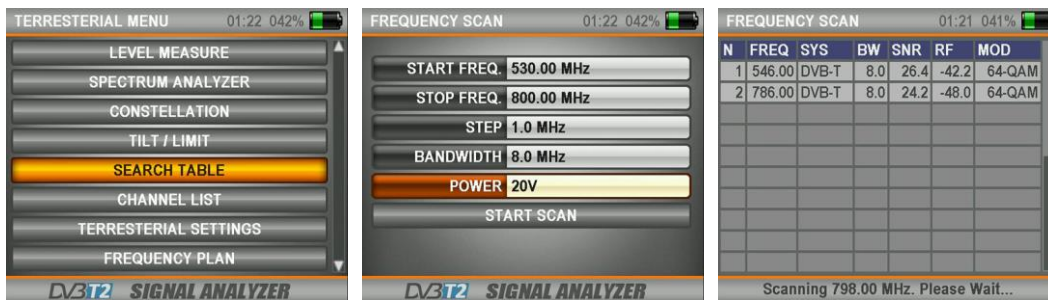
You can see on the same screen both the constellation and the other signal parameters and perform rapid and reliable measurements.

TILT / LIMIT MENU:

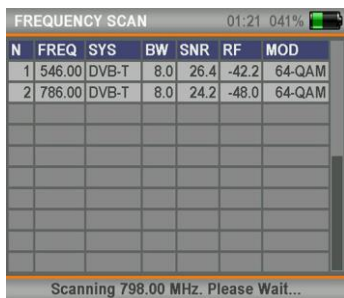


The Inclination/Limit List test is an efficient solution for controlling the order of the cable system and the further weakening of the wave at high frequencies. AS06STC can acquire the levels of 12 channels and observe the measurement result, graphics easily. You can select the start of the first 6 frequencies of the group and the last 6 frequencies as of the end of the group. Then you can control the inclination and arrange the amplifiers and elements according to this inclination.

SEARCH TABLE MENU:



AS06STC uses the channel scan function in order to test the order and gain of the DVB-C QAM Cable TV system rapidly. You can select the step range and the end frequencies and scan all the signals within the band at one of the bandwidths of 6, 7, 8 MHz. There may be amplifiers at terrestrial TV antennas, you might need to select a supply voltage of 5V, 12V, 20V in this case .



A table similar to the figure above will appear after you have scanned the band you have selected. When you go on a frequency in this table an click on OK, then you can measure this channel in real time. You can download the signal parameters on a USB memory card when you press on the EDIT button.



CHANNEL LIST:

You can display the CHANNEL LIST from the MAIN MENU while watching any channel or watch later any channel you want to by pressing on the ENTER button.



EDITING THE CHANNEL LIST

Go over the channels and press on the EDIT button and the select any of the DELETE, RELOCATE options and mark the channel you want to process. Select once again when you want to delete it, and move the cursor to the position you want, when you want relocate it. You can exit by responding YES to the RECORD CHANGES option after you have completed your process.

TERRESTRIAL TV SETTINGS:



You change your TERRESTRIAL TV settings from this menu.

POWER UNIT: You can use the power level as dBuV, dBm, dBuV.

CALLIBRATION: You can change your calibration level with these settings when you want to see your measurement levels high or low.

MIN & MAX POWER: You can change your measurement strength level with the settings.

MAX BER: You can change your measurement BER maximal limit with the settings

Antenna Supply: There may be amplifiers at terrestrial TV antennas, you might need to select a supply voltage of 5V, 12V, 20V in this case .

FREQUENCY PLAN:

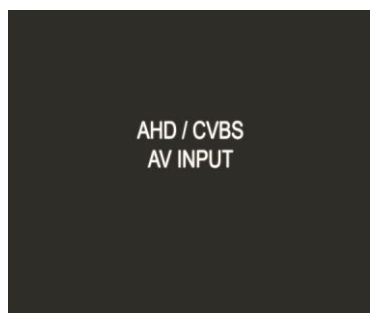
You can edit the appropriate frequencies in the region you are providing services in this menu. Thus will your frequency plan be used with the settings you have made in all other menus and you will be able to perform faster measurements. (Always control the correctness of the settings, since these setting are used in some menus.)



You can scan all channels and control the memory data for the TERRESTRIAL TV frequency plans and channel lists.

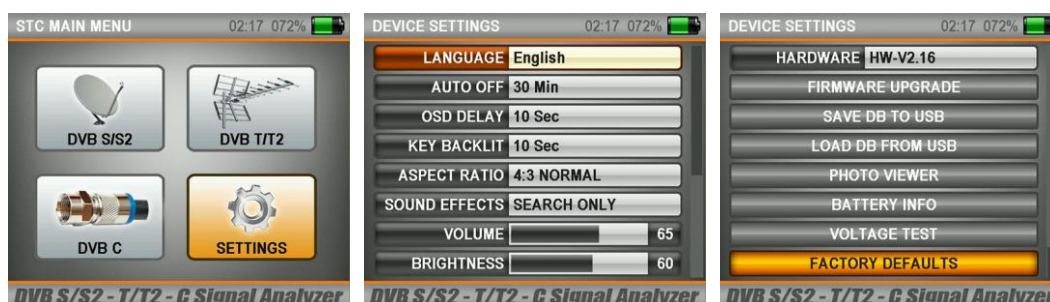
AHD / CVBS Camera Interface:

The device will set over to the video input mode when you press on the AV IN button for 1 second while you are in any menu and the test below will appear on the screen. Thus you can perform the installation of AHD and CVBS ANALOGUE cameras and test the quality of videos by connecting external videos.



MAIN SETTINGS MENU OF THE DEVICE:

You can perform the optimal settings you will use your device with in the device settings menu. These settings will both visually and in terms of processes accelerate your works.



You can see the unique options of the device settings below..

LANGUAGE: English, Turkish, German, French, Spanish, Portuguese, Russian, Arabic, Dutch, Italian , Greek

AUTOMATIC SHUT-OFF: 5-10-20-30-60 minutes / CLOSED (The device will automatically shut off by the end of the time selected in AUTOMATIC SHUT-OFF, when the device is accidentally forgotten on. You may deactivate this feature when you wish to.)

OSD DELAY: 1-2-3-4-5-10 seconds (You can determine the visibility time of some of the OSD menus on the screen)

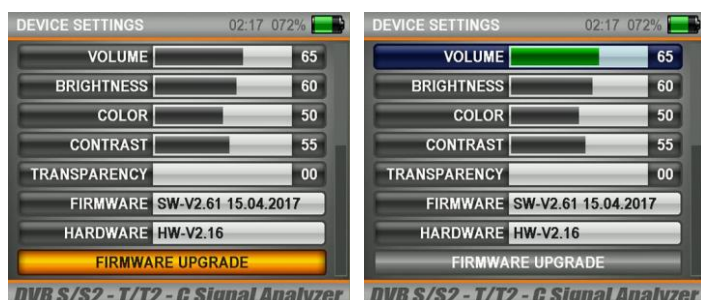
SCREEN TYPE: 16:9 WIDE SCREEN / 4:3 NORMAL / AUTOMATIC

SOUND EFFECTS: MUTED / ONLY SATELLITE SEARCH SOUND / SEARCH + SHORT / SEARCH + LONG

You can perform the SOUND, BRIGHTNESS, COLOUR, CONTRAST and TRANSPARANCY settings such to aid the usage of the device.

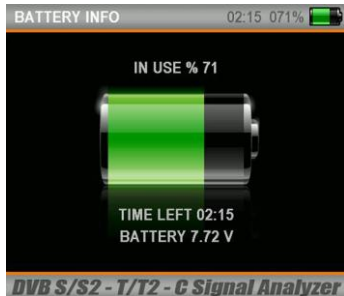
SOFTWARE UPDATE: You can download the new software published by the high technology R&D department of the manufacturer from time to time in this menu.

You can reset the device to the DEFAULT SETTINGS, cancel all TP's, cancel all channels. Beside this, you can check the SOFTWARE and HARDWARE versions.



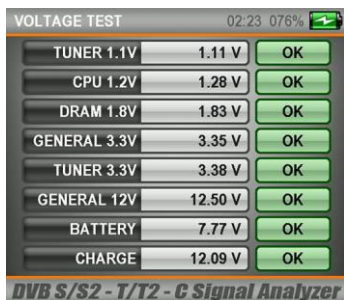
BATTERY INFORMATION:

You can see on this screen the charge status of the battery and the remaining time. Thus, you can organize the usage of the charging devices.



VOLTAGE TEST:

You can see on this screen the supply voltages of the electronic circuits of your device. When these are within the required values, OK will be indicated in green boxes.



SOFTWARE and FREQUENCY DATABASE UPDATE:

You can record the CHANNEL LIST in your device on a USB memory card. Then you can later upload this channel list again to your device. You can record the software you have downloaded from our site at www.alpsat.com and update the software of your device by using the SOFTWARE UPDATE menu.



IMAGE VIEWER:

You can capture a screenshot by pressing simultaneously in any menu while using the device when your USB memory card is plugged in. You can go back to the device settings menu and view the captured screenshot you made or the images on your USB memory card.

