

Deviser S30 Miernik satelitarny

- w pełni zaspokaja potrzeby instalatora
- można go zaprogramować przy pomocy PC
- bardzo krótki czas reakcji ułatwia ustawianie anten
- dużą niespodzianką jest przydatny tryb analizatora widma
- ma opcję wysyłania komend DiSEqC





Very Useful Tool For a Professional **Installer or Amateur**

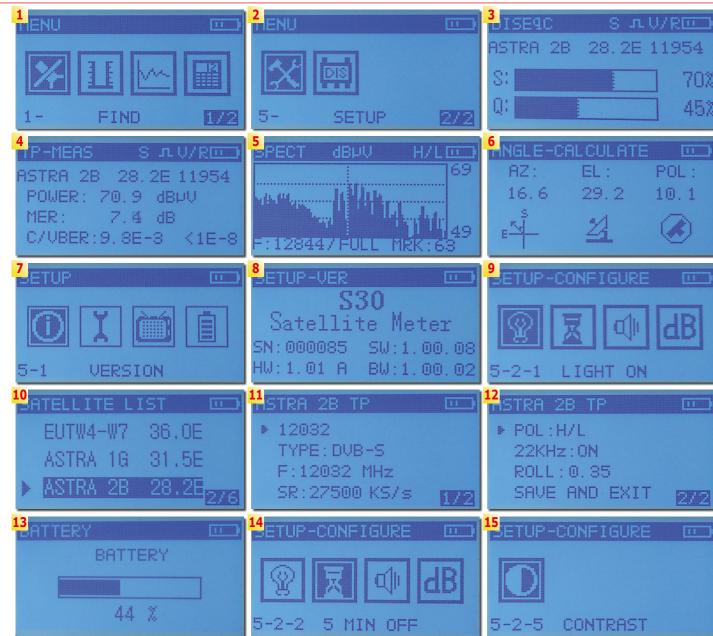
rences between S30 and its its predecessor's - what is a older brother S20 we pre- good thing because nothing sented some time ago. Ex- has been lost in its ease of cept for the model number, use and sharp learning curonly the name has changed ve the first user experienfrom Satellite Finder to Sa- ces. S30 has a very clear tellite Meter. However, when 128x64 backlit LCD and sewe started using it, it beca- ven buttons. There are three me obvious that the changes connectors for the antenna are not only cosmetic.

It is difficult to spot diffe- is practically the same as cable, USB cable and a po-The look and feel of S30 wer supply unit. Speaking







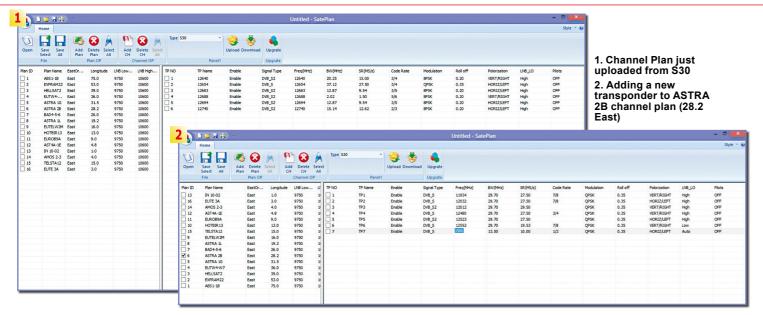


- 1. Main Menu (the first page) consists of: Find, Measure, Spectrum and Angle
- Spectrum and Angle
 2. Main Menu (the second page)
- consists of: Setup and DiSEq
 3. Find function shows signal strength and quality along with the top values registered during antenna setup; there is also a beep generated with pitch changing in accordance with signal quality
- 4. Measure function transponder parameter measurement results are displayed here
- 5. Spectrum function the full bandwidth is shown; you can also zoom to 320, 160 or 80 MHz with the up/down arrow buttons
- 6. Angle function displays the calculated azimuth and elevation angles for the entered geographical coordinates of the dish and the satellite position
- 7. Setup submenu consists of 4 items: Version, Configure, Sat Settings and Battery
- 8. Version as you can see, we tested a very early product with serial number 000085

- 9. Configure submenu
 consists of five items:
 Backlight, Timer, Beep, Units
 and Contrast (the fifth one is
 visible after four presses of the
 right arrow button)
- 10. Satellite List pops up right after entering Sat Settings; you are supposed to select a satellite in order to view its specific settings and transponders
- 11. Transponder Settings the first page of two
- 12. Transponder Settings the second page of two
- 13. Battery indicates how much charge is still left in the internal battery
- 14. Configure submenu (the first page) allows you to set backlight (on/off), inactivity timer (5, 15, 30 minutes or always on), beep (on/off) and units of power channel measurement (dbuV, dBmV or dBm)
- 15. Configure submenu (the second page) allows you to set contrast of the display







ware, right? Right! You get and signal started to drop. all of them in the set. The If this is more practical for software is provided on a you, you can even not pay small CD-ROM. Deviser also provides an Operation Manual in hard copy. The manual is very easy to follow and its electronic version is additionally available on the CD-ROM. The final items in the set are two female-to-female F connectors. You screw in one of them to the S30. The other one is a spare you can use when the first one if torn off due to frequent usage.

The small keyboard is self explanatory. You have 4 arrow buttons and a power/ enter button in the middle. Below them, there are two buttons for entering the menu and leaving it. If you need to change settings, you simply highlight it and the use up/down buttons to change a digit. Some nonnumerical settings, like satellite names, can be edited on a PC and later downloaded to S30 thanks to the SatePlan Editor software for Windows

When you power up the S30 for the first time you'll truly enjoy its display. It is very easy to read thanks to the backlit. The meter starts with its signal finding window in which you can directly select the desired satellite and its transponder. Except for the signal strength and quality bars, the Deviser S30 shows the maximum values registered so it is very easy to see that we had turned our dish a little bit too much

too much attention to the readout but listen to the beep the S30 generates. The higher the pitch, the better the antenna alignment. We want to praise Deviser for the very fast response. It reacts immediately for even the smallest movement of a dish.

Our S30 test sample had 16 popular European satellites per-programmed. If the transponder selection for a given satellite does not suit your needs, you enter the Main Menu (button MENU) and navigate to Setup - Satellite Settings where you can adjust all parameters of any transponder associated with the satellite. It is normal that not all satellite beams cover the whole continent, so even if you live in Europe and you bought the S30 here, it can happen that some of the pre-programmed transponders are not receivable in your region. Editing parameters is easy

as everything else in S30.

If you put a little more effort and install the SatePlan software on your PC (Windows OS), the edition will be even easier. Additionally, you will be able to add new satellites, new transponders, enable some of them or disable others. The editor software is much more convenient than the one we remember from S20. It is here were we noticed the important differences between the new S30 and its predeccesor S20. Very important: the S30 can measure DVB-S2 transponders, something what its older brother S20 could not do.

In this class of meters, the spectrum view is often just a gadget of little use. But not with the S30. Once you ser S30 to another meter display a spectrum view, you can set a marker on a transponder "mountain", press We selected a very good and the Enter button and the S30 will automatically recognize all its parameters (frequency, SR, DVB type, FEC) and display its measurement 28.2° East and EUROBIRD on

results. It was really a very nice surprise for us to discover this. In this way you do not even have to care about checking satellite charts. This is another new feature in S30.

We were also pleased to find the DiSEqC 1.0 and 1.1 submenu. Using it, you can send a command to switch to a given signal source. We tested it with a DiSEqC 1.1 switch in our test antenna setup and everything was working as expected. Thanks to this function, you can not only verify that the antenna is aligned correctly but also that the whole distribution system is OK.

After checking the functions and features, the time came to compare the Deviand see if its measurement results are really credible. very expensive signal analyzer as our reference. Tables below show the results for two satellites: ASTRA on

ASTRA on 28.2 East				S30		Reference Meter		
Transponder	Frequency	Pol.	Type	Symbol Rate	Power [dBuV]	MER [dB]	Power [dBuV]	MER [dB]
1	11934	V	DVB-S	27500	73.6	10.3	71.8	9.4
2	12032	Н	DVB-S	27500	69.2	8.5	69	7.5
3	12012	V	DVB-S2	27500	70.1	10.7	70.2	9.9
4	12480	V	DVB-S	27500	66.1	10.1	69.6	10.4
5	12523	Н	DVB-S	27500	64.5	8.4	65.1	7.3
6	12607	Н	DVB-S	27500	70.1	9.5	68.5	8.5

EUROBIRD on 7 East					S30		Reference Meter	
Transponder	Frequency	Pol.	Type	Symbol Rate	Power [dBuV]	MER [dB]	Power [dBuV]	MER [dB]
1	11727	V	DVB-S	27500	67.3	9.6	67.2	8.6
2	11900	Н	DVB-S2	27500	69.5	9.3	67.9	8.2
3	11919	V	DVB-S	27500	66.5	8.6	64.8	7.6
4	11996	V	DVB-S	27500	64.5	9.2	63.1	8.1
5	12130	Н	DVB-S	27500	68.6	10.4	66.1	9.4
6	12322	Н	DVB-S	27500	67.1	10.3	65.6	9.4



7° East. The S30 was a little The Deviser S30 was able te reception. The S30 is fast also its PC software is more bit too positive in its measu- to measure the power (56.3 rements. It showed about 1 dBuV) but could not to lock dB more in both: channel po- to the signal and measuwer and MER. Such small dif- re its MER. It is not a shaference is in fact a good re- me for this class of a meter. sult. So far, we never found We would be extremely surtwo meters showing exactly prised if it could match our the same values. Usually, reference. the difference was even greater than that between the buying a satellite meter, you S30 and our reference. So, should ask yourself: shall I we confirm that the Deviser really be forced to measu-S30 results are credible.

were so good, we could not ger transponders receivable resist to check if the S30 next to weak ones - like in could match our expensive the case of EUROBIRD. And analyzer with a very, very you can perfectly align the weak signal of low symbol dish using rather the strong rate. We selected the EU- transponders than the weak ROBIRD transponder 11389 ones. H SR=3642. Our reference meter measured the power recommend Deviser S30 to as 62.2 dBµV and the MER all but extremely demanding as 3.8 dB. Practically it was professionals dealing with a reception at threshold. complex problems in satelli-

If you are thinking about re such weak signals? Usu-Because the test results ally, there are much stron-

To sum it up, we can truly

Not only the meter itself but nothing to be desired.

in responding, very easy to matured than for the older use, and easy to reprogram. S20. Its workmanship leaves



Operations Makes and Association of the Control of



TECHNICAL					
DATA					
Manufacturer	Deviser Electronics Instrument Co., Ltd.				
Fax	+86-22-27645002				
E-mail	overseasbiz@deviser.com.cn				
Web page	www.devisertek.com				
Model	S30				
Function	Satellite Antenna Meter				
Input Frequency	950~2150 MHz				
Input Signal Level	30~110 dBµV				
Symbol Rate	1~45 Ms/sec				
LCD	128 x 64 pixels				
LNB max current	400 mA				
Power Supply	12 V DC 1.2 A				
Operating Time	2.5 hours when fully charged				
Charging Time	3 hours				

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