KINS ELECTRONIC
HIGH FREQUENCY TEST EQUIPMENT
PRODUCT LINE D · 2011



# VAROS TECHNOLOGIE

# Made for satellite installers:

# **VAROS 109**

# Satellite measuring receiver

- 5.7" TFT display with VGA resolution
- Frequency range 910-2,150 MHz
- Level measurement of analog and DVB signals in SAT
- SCAN function for a safe satellite identification
- BER and MER for all DVB-S and DVB-S2 transponders
- MPEG 2 and MPEG 4 (HD) audio and video, DVI output
- CI slot for CA modules with smartcard
- Analyzer function full-band and narrow-band
- Data logger via USB
- DiSEqC, UNICABLE
- Li-lon battery pack 7.2 V/6.6 Ah

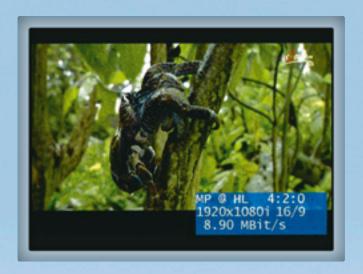
## Delivery includes:

- Solid transport case
- External power supply
- High-quality measurement cable
- USB stick
- Manual





A handy instrument size but a very valuable measuring receiver. VAROS 109 has been developed for installation and error search in SAT multiswitch and UNICABLE systems. The data logger function on the USB stick is saving files in XML format.



## MPEG 2/4 combi decoder

VAROS 109 displays SD and HD audio and video. An external screen can be provided via DVI interface.

```
SAT-HF 12.100 DVB-S2

[G Satelliten: Gesamt 12
Liste erstellt am: 30.06.2011

BA

D1 ASTRA 1H/1KR/1L/1M/2C 19.2°E
02 Hot Bird 6/8/9 13.0°E
03 ASTRA 2A/2B/2D 28.2°E
04 Thor 5/6 00.8°W
05 Eurobird 9A 09.0°E
06 ASTRA 3A/3B 23.5°E
07 Türksat 2A/3A 42.0°E
08 Atlantic Bird 3 05.0°W
09 Hispasat 1C/1D/1E 30.0°W
10 Hellas Sat 2 39.0°E

[MA]

92
```

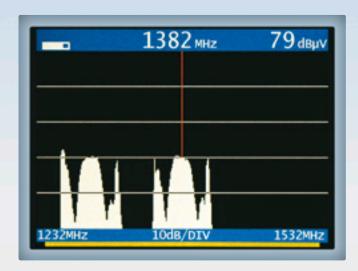
## **SCAN** function

The SCAN function works with an extensive list of satellite positions that are pre-stored in the VAROS 109. The clear display reduces time-consuming searching for orbital positions, especially for those who are not used often.

```
SAT-HF 12.100 | DVB-S2 | SR 22000 | SR 22000 | SR 22000 | SR 22000 | SCR-ADR-Bank1 | SCR-ADR-Bank1 | SCR-ADR0(UB0) := 1280MHz | SCR-ADR1(UB1) := 1382MHz | SCR-ADR2(UB2) := 1484MHz | SCR-ADR3(UB3) := 1586MHz | DiseqC aus | 14v/22kHz | Ilnb | [mA] 92
```

#### **UNICABLE LNB activation**

The displayed menu shows: the adjusted satellite transponder (12,100 GHz) is being converted to the UNICABLE frequency 1,484 MHz.



## **Spectrum of active UNICABLE allotment**

There are 2 active UNICABLE channels shown in the analyzer.