Radiasun
Inspire the World to Shine

Features:

•Direct frequency input from 5(46)MHz ~ 870MHz

•DVB average power measurement

•Direct channel input of channel numbers

•Simultaneously displays video carrier and audio carrier strength, and V/A measurement

•Selectable dBmV,dBμV and dBm units

•Tilt measurement of three user definable channels

•Carrier-to-noise ratio measurement

•Trunk voltage measurement

•Large 128*64 dot matrix LCD display with back light

•RS-232C port with PC communication function

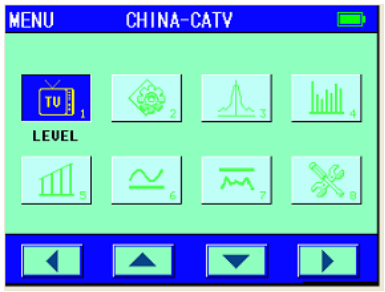
•battery-powered handheld model, Internal Li-ion battery with included charger

•Rugged, compact and mobile, with rubber jacket, carry strap and manual

•Battery life: ≈8 hours

RA2002C

46~870MHz, COLOR LCD, channel level, C/N, V/A, trunk voltage, digital channel power, BER, MER, SPECTRUM, AUTO test, scan.

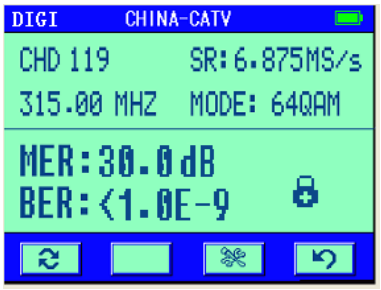


Main menu

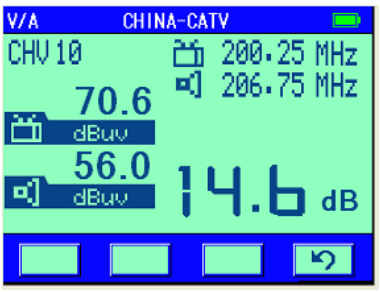
Setup menu

Bluetooth is option

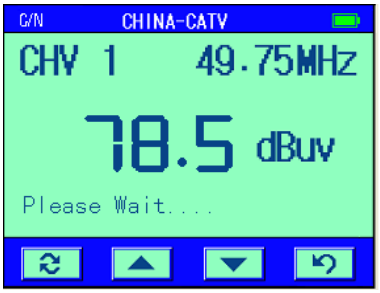
Test menu



QAM analysis menu

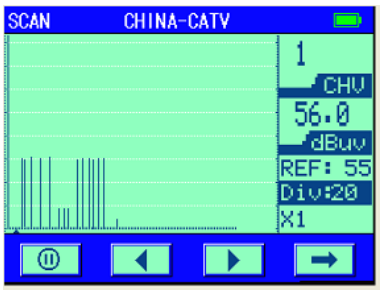


QAM analysis menu

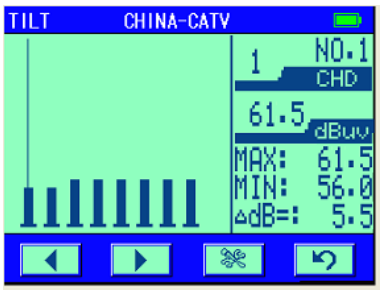


C/N Measurement

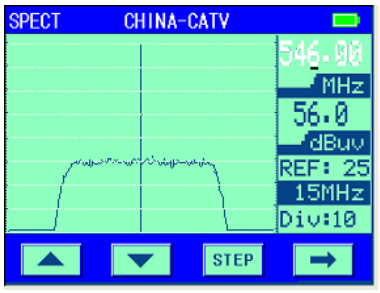
Voltage



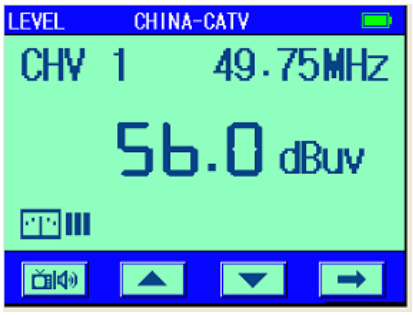
SCAN



TILT menu

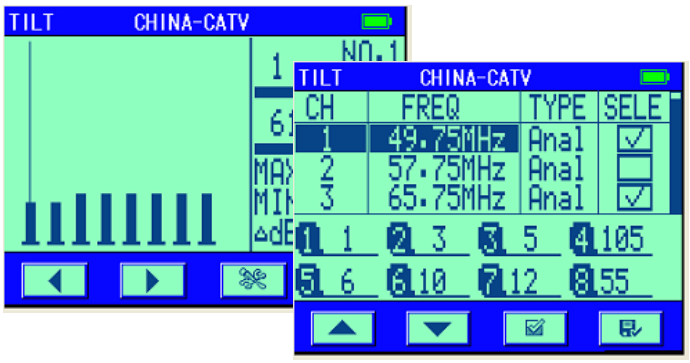


Sepctrum analysis



Unique features – Test menu

RA2002C	VS	Others
· Graphic bar Indicates the value of the signal level or channel power.		No graphic bar Only displays as number.

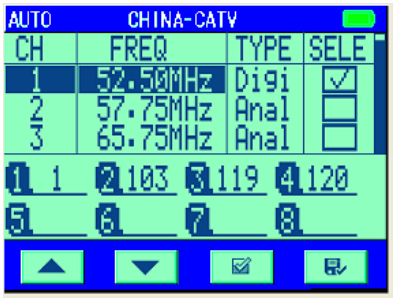


Unique features- 8 channel TILT

RA2002C	VS	Others
· View 8 Channel TILT at the same time. · View the test value by pressing one button.		· 3 Channel TILT · can't display the test value of all channels.

Unique features – Channel edit

RA2002C	VS	Others
· Channel plan can be edited on meter. · Even the frequency can be edited.		· Most can't be edited on meter. · Even channel can't be edited, the frequency cant be edited.

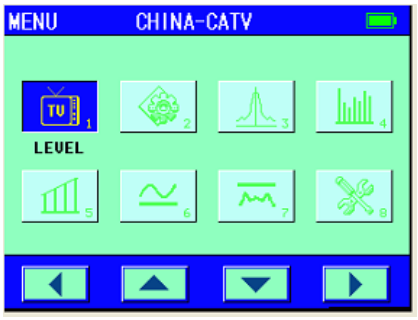


Unique features – Auto test

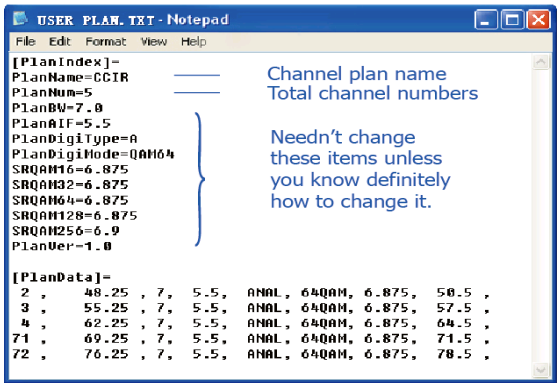
RA2002C	VS	Others
· Autotest allows you test up to 8 channels and get test result sheet by press one button.		· Most other brands don't have auto test functions.

Unique features – Li-ion battery		
RA2002C	VS	Others
· Li-ion battery. Longer working time, >=8hours		· Mi-NH battery, less working time, normally 3 hours.

Unique features – Upgrade		
RA2002C	VS	Others
· Can be upgraded to the latest firmware, by using the upgrading software, to add functions, fix meters, or keep update.		· Normally can only be upgraded at factory.



Unique features – Color LCD		
RA2002C	VS	Others
· The meter adopts 320*240 TFT color LCD, high user experience, more content in a screen.		· Other brands uses black and white LCD.



Unique features – Edit channel with .TXT file.		
RA2002C	VS	Others
· You can use Windows Notepad to edit the channel plan and then program to PC.		· Most other brands can't edit the channel plan by .TXT file.

Unique features – Advanced Calibration technology.		
RA2002C	VS	Others
· Most advanced calibration technology, use R&S (Germany) digital signal generator, calibrate meter at high and low temperatures.		· Most other brands use normal branded signal generators and calibrated at normal temperatures.

Specification:

QAM Analysis (Digital Channel)

Support: 16/32/64/128/256QAM DVB-C;

Demodulation type: ITU-TJ.83-AnnexA/AnnexB/AnnexC

Symbol Rate: 1.00MS/s ~7.00MS/s

Bandwidth: 1MHz~8MHz

Frequency tuner: 50 KHz

MER measurement range: 19~40dB

BER Pre/post FEC measurement range: 10E-2 to 10E-9

Tuning range: 46 MHZ~870MHz

Tuning mode: by channels or by frequency

Power measurement type: QAM, QPSK, DOFDM

Frequency:

Range: 46MHz—870MHz

Resolution: 10KHz

Bandwidth: 280KHz

Frequency tuner: 50 KHz

Accuracy: ±50 ppm @ 20° C ± 5°

Digital Channel Power (Average):

Level range: 35 to 120 dBuV

Accuracy: ±2.0 dB@10° to 30°C (50° to 86°F) ±3.0 dB@-10° to +40°C (14° to 104°F).

Resolution: 0.1dB

Constellation (Optional)

Display size: 64 and 256 QAM Constellation with zoom capability

Channel Type:

Analog TV: TV

Digital TV: QAM, QPSK

FM channel: Single Frequency

Analog Level Measurement:

Range: 25dBuV—120dBuV

Accuracy: ±2dB

Resolution: 0.1dB

Input Impedance: 75ohm

Wave detection: peak value

Channel Scan:

Number of Channels: 200 channels max.

Scanning speed: 4 channels / sec

Scale: 1, 2, 5, 10, 20 dB/div

Zoom: 1X, 2X, 4X three levels of magnification or full Channel Plan scan.

Marker: 1 (frequency and signal level)

Spectrum Analysis:

Bandwidth: Ranging between 4.5MHz, 9MHz, 27MHz, 54MHz, and full span.

Scale: 1, 2, 5, 10, 20 dB/div

Marker: 1 (Frequency and signal level)

Carrier-Noise Ratio (C/N):

Input range: 65dBuV (minimum input level).

Measurement range: 30 to 54 dB

Accuracy: ±2dB

Resolution: 0.1dB

Tilt measurement:

Number of channels: 8

Resolution: 0.1dB

Trunk Voltage measurement:

Input range: 0-100VAC

Accuracy: ± 1.5V Resolution 0.1V

Resolution: 0.1V

Auto-Test

Number of channels: 8

Tests: Level or digital channel power

Others:

Channel Plan:

Number of Channels: 200 channels max

Number of Learned Channel Plan: 17 max. 8 preset, 8 editable by PC, 1 user defined.

Power Supply:

Battery: 11.1V 1.5AH Li-ion battery,

Charger: AC 100V-240V/50Hz

Working Time: >=8 hours (full charged battery).

Auto power off: Selectable (10 min, 20 min, 30 min, always on)

Charging Time: 5-10 hrs.

Connector type: F81 connector.

Display: 320*240 Color LCD

Communication Port:

RS-232C

Storage:

256 Kb of memory;

Up to 200 complete scan files (200 channels, max); less if other files (Level. Tilt, QAM, Spectrum) are saved

Gross weight: 1 kg

Net weight:0.5kg (with rubber jacket)

Dimensions: 85mm*160mm*40mm

Package: 220mm*177mm*62mm

Ordering guide:

Model	Main Features
RA2002Q	46~870MHz, 128*64 B/W LCD, digital power
RA2002C	46~870MHz, 320*240 Color LCD, digital power, (MER, BER is optional).