

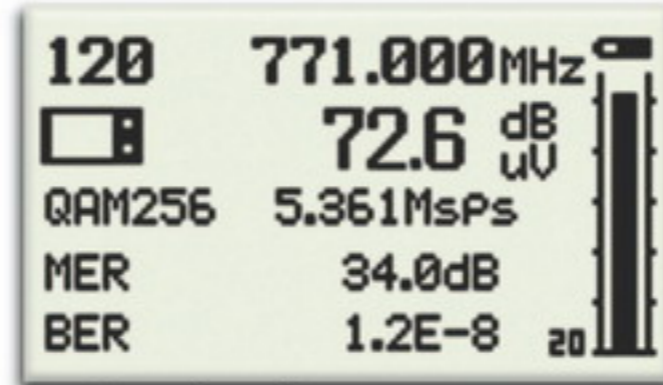
# Digital TV signal analyzer 1750



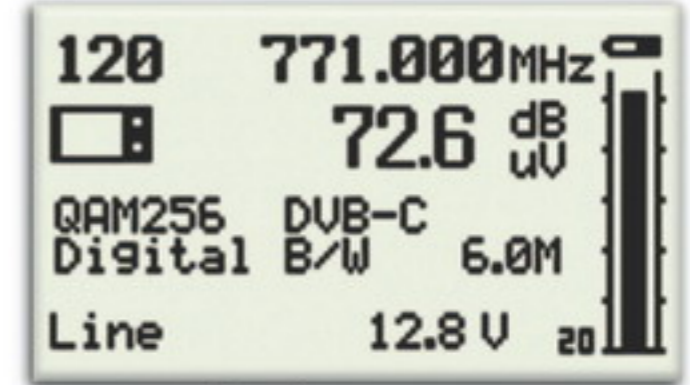
- 5 - 1000MHz TV signal measurement
- MER(SNR), BER, EVM measurement
- Spectrum & tilt measurement
- Constellation diagram
- Dual signal measurement with peak search
- Searching CH information (Scan/Data logger)
- USB to Mini din-6pin cable
- Li-Poly rechargeable battery



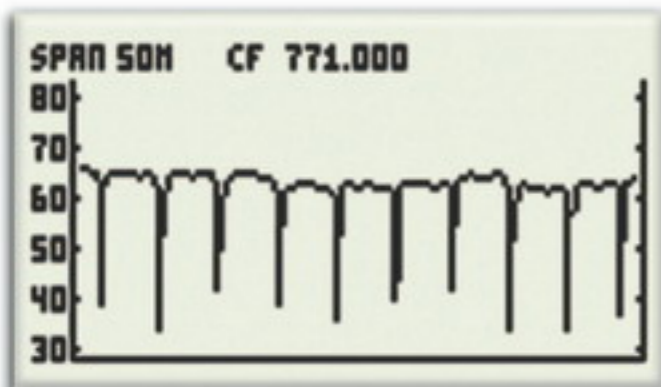
User menu  
(Icon type)



Signal quality measurement  
(MER, BER, SR, etc.)



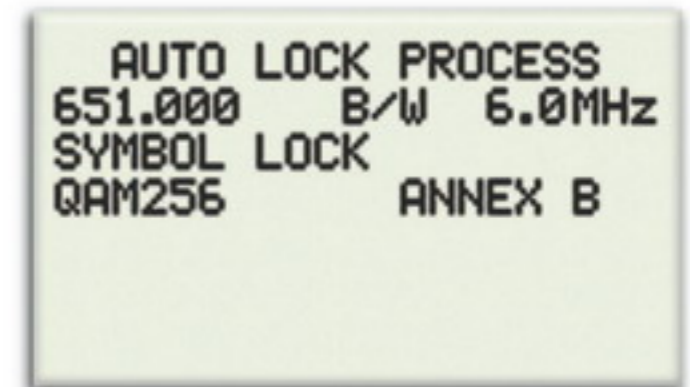
TV Signal measurement  
(CH, Level, B/W, etc.)



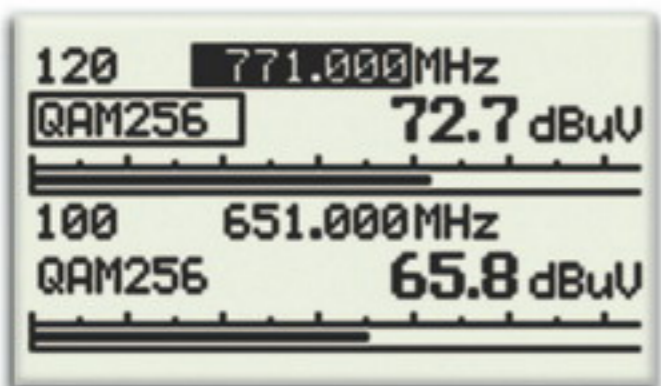
Spectrum measurement  
(CH, FREQ, TILT, etc.)



Constellation measurement  
(1/4 zoom)



Inform datas  
(per each CH)



Dual signal measurement &  
peak search

KOREA-CATV

CHNO	FREQ	TYPE	MOD
116	747.000	DGT3	QAM
117	753.000	DGT3	QAM
118	759.000	DGT3	QAM
119	765.000	DGT3	QAM
120	771.000	DGT3	QAM

CH PLAN  
(Basic. 8 CH PLAN)

SYSTEM CONFIG

LANGUAGE	ENGLISH
CABLE @150M	0.0dB
-LOSS @850M	0.0dB
AUTO TIMEOUT	05min

System config

# Digital TV signal analyzer **1750** series

## ■ FREQUENCY

- └ FREQUENCY RANGE : 5.0 ~ 1000MHz
  - Accuracy :  $\pm 10$ ppm
  - Tuning resolution : 10KHz
  - Input sensitivity : -50dBmV(10dB $\mu$ V)
- └ LEVEL RANGE : 10dB $\mu$ V(-50dBmV) ~ 120dB $\mu$ V(+60dBmV)
  - DC ~ 60Hz : 100V DC or RMS
  - IF Bandwidth : 3MHz/ 1MHz/ 280KHz / 150KHz
  - Accuracy :  $\pm 1.5$ dB (@5 ~ 50 °C)
  - Resolution : 0.1dB
  - Unit : dB $\mu$ V, dBmV, dBm
  - Input Impedance : 75 $\Omega$

## ■ LEVEL MEASUREMENT MODE

- └ ANALOG CHANNEL
  - Video carrier level & audio carrier level measurement
  - Ratio of video to audio carrier levels(V/A)
  - Video sync
  - C/N(Carrier to Noise ratio) : Video carrier level is over 50dB
  - CTB/CSO measurement offset values : -2.50MHz ~ +2.50MHz
- └ DIGITAL CHANNEL
  - Power measurement in the channel bandwidth by integration method. (QAM, VSB, COFDM, QPSK signals)
  - Digital Signal Level Measurement
    - a. Modulation type : QAM(1024/256/128/64/32/16), VSB, QPSK, COFDM
    - b. Annex type : A, B, C
    - c. Range of symbol rate : 0.100 ~ 40.000MSPS
    - d. Range of pilot signal :  $\pm 20$ MHz(only VSB)
    - e. Bandwidth : 1 ~ 25MHz selectable (6/7/8MHz automatic setting)
    - f. MER, Pre-BER, Post-BER, I/Q Constellation, EVM, etc.
- └ ANTENNA FOCUS (with Beep sound)
  - Dual Measurement Mode : Two channels can be measured.
- └ DATA LOGGER
  - Memory capacity of Storable : Approx. 8Mbyte
  - Changeable according to data volume.
  - Setup data logger : NAME, TIME, FILE NAME, LOGGER LIMIT
  - PC connection : Upload data logger

## ■ SPECTRUM MEASUREMENT MODE

- └ FREQUENCY RANGE : 5 ~ 1000MHz
- └ LEVEL MEASUREMENT RANGE : 10dB $\mu$ V(-50dBmV) ~ 120dB $\mu$ V(+60dBmV)
  - Reference level division : 5/10dB unit setting available.
- └ SPAN : Channel or frequency can be displayed at one screen.
  - Span for CHANNEL SWEEP : 18 / 38 / 58 / 110CH
  - Span & resolution for FREQUENCY SPECTRUM (reverse noise)
- └ Functions for FREQUENCY SPECTRUM
  - Detection Method : PEAK, AVER (selectable)
  - Max. hold : ON/OFF
- └ GRAPHIC TILT SPECTRUM RANGE : 5 ~ 1000MHz
  - Indication(Bar graph) : Tilt Slope, Video/Audio signal level, Digital average power
  - Auto arrangement depending on frequencies

## ■ LINE AC/DC & BATTERY VOLTAGE MEASUREMENT

- └ LINE AC/DC VOLTAGE MEASUREMENT RANGE :  $\pm 10$  ~ 110V
  - Resolution :  $\pm 1\%$ ( $\pm 1$ digit)
  - Indication : AC/DC max. 4-digit figure
- └ BATTERY VOLTAGE MEASUREMENT RANGE : 6V ~ 8V

## ■ SCAN MODE (A)

- └ ACTIVE LEVEL SCAN : MATV & CATV band
- └ BLIND SCAN
- └ LEVEL INDICATION
  - Analog channel : Video carrier level - Audio carrier level - C/N - Pass/Fail
  - Digital channel : Digital average power - MER - Pass/Fail
- └ Set a search range according to modulation type (QAM, QPSK, etc.)
- └ The unit compares a signal and modifies it properly, based on 'a real signal' and 'information of channel list'.

## ■ SUB-FUNCTIONS MODE

- └ The measurement data PRINT : Direct acting
- └ The measurement data CAPTURE : filename.CAP (Approx. 63block)
- └ FILE DIRECTORY : PRINT/REVIEW/DELETE
- └ CONNECT TO HOST PC : Upload or Download with Hyper-terminal program

## ■ CHANNEL PLAN

- └ Basic 8CH Plans are stored(changeable) : EIA, CCIR, CHINA, JAPAN, AUSTRAL, UK, OIRT, ST.A
- └ Each CH Plan can store Max. 8Mbyte.
- └ All data are available to upload or download and changeable by a computer.

## ■ POWER SUPPLY

- └ RECHARGEABLE BATTERY : Li-Poly 7.4V/3800mA
  - Battery Indicator : Graphic indication on the screen
  - Run time with full charge (over 8 hours) : average 5 hours.
- └ MAIN ADAPTER
  - Input : AC 110-220V/60Hz
  - Output : DC 12V/1500mA
  - Adapter can be offered according to each country's conditions.
- └ AUTO TIMEOUT : The timer setting is programmable to 5/ 10/ 30/ NONE.
  - Power turns off automatically when the battery of the unit is low in order to conserve the battery life.

## ■ OPERATING CIRCUMSTANCES

- └ USEABLE TEMPERATURE : 5°C ~ 50°C
- └ HUMIDITY : @80% and below

## ■ MECHANICAL FEATURES

- └ DIMENSION : 218mm W X 105mm H X 58mm D
- └ WEIGHT : 920g (including batteries)
- └ GRAPHIC LCD DISPLAY with backlight : 128 X 64 dot matrix
- └ CASING STRUCTURE : shock-proof plastic (ABS)

## ■ STANDARD ACCESSORIES

- USER MANUAL
- CARRYING BAG with SHOULDER STRAP
- Li-poly RECHARGEABLE BATTERY (inside the unit)
- DC ADAPTER
- "F" TYPE CONNECTOR (1ea.)
- USB to DIN-6PIN CABLE : It transmits data to computer or printer

## ■ OPTIONAL ACCESSORIES

- Car cigarette lighter adapter cable
- Coaxial cable
- Upstream generator

**TELEMANN**  
Telemann corporation



**Authorized Dealer**

**通核科技有限公司**

**BSK Technology Co., Ltd.**

地址：22042新北市板橋區莊敬路220巷29弄2號一樓

TEL : 886-2-8258-2008 FAX : 886-2-8258-2018

E-mail: sales@bsk.com.tw

<http://www.bsk.com.tw>

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