

# FM Signal Analyzer

## DSA-200P



신개념 FM 신호분석기의 결정판!!!

All-In-One FM 신호분석기 → 「FM 신호분석 기능 + 스펙트럼 분석 기능」

### 주요 특장점

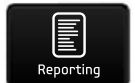
- FM 신호분석기와 스펙트럼 분석기 일원화
- 다양한 FM 신호발생 기능 및 분석 기능
- 5kg의 경량화 및 소형화 설계
- 10.4" 고해상도 화면에 그래프, 측정값, 적합여부 실시간 출력
- 편리하고 직관적인 윈도우 기반의 GUI 적용
- 정밀 신호측정 및 분석 보고서 자동 작성 기능
- 검사 및 측정 시간 대폭 축소

경량화 & 소형화

10.4" Multi-Touch Screen



자동 리포트



### FM Signal Analyzer Measurement

#### In Band Quality Measurement

- RF Frequency
- Residual AM Noise
- FM Deviation: Total/L+R/L-R/Pilot/38kHz/L/R/RDS
- Pilot Frequency Error/Angle Error
- Audio X-talk
- Modulation Linearity
- Audio Balance
- Audio Frequency Response

#### Out Band Quality Measurement

- Occupied Bandwidth
- 2nd & 3rd Harmonic

### General

- Dimensions: 328(W) x 217(H) x 99(D), mm
- Weight: 4Kg
- Li-Po Battery
- 19V DC Adaptor (110V ~ 220V)
- Carrying Bag
- Operating Temperature: 0°C ~ 45°C
- Storage Temperature: -20°C ~ 70°C
- Permissible Relative Humidity: 85%

### FM Signal Analyzer Specifications

- RF Input Frequency Range: 80~110MHz
- RF Input Impedance: 50Ω
- Out of Channel: ≥ 80dBc@1MHz BW
- 2<sup>nd</sup>/3<sup>rd</sup> Harmonic : ≥ 80dBc@1MHz BW
- Residual AM Noise: ≤ -80dBc@20Hz~25KHz
- RF Frequency Error: ≤ ±1Hz@-70KHz~70KHz
- Deviation Error: ≤ 0.01%@50Hz~60KHz
- Audio THD+N: ≤ 0.002%@50Hz~15KHz
- Audio X-talk: ≥ 80dBc@50Hz~15KHz
- Audio Balance Error: ≤ ± 0.01dB@50Hz~15KHz
- Audio Response Error: ≤ ± 0.01dB@50Hz~15KHz
- Audio Linearity Error: ≤ ± 0.01dB@50Hz~15KHz
- Pilot Frequency Error: ≤ ± 0.1Hz@-40Hz~40Hz
- Pilot Phase Error: ≤ ± 0.01 Degree@-12.5°~12.5°

### FM Signal Analyzer Interface

- RF Input: 50Ω, N-type
- Composite Output: 75Ω unbalanced, BNC
- 10.4" TFT LCD Panel: 1024 x 768 Pixels
- Function & Menu Hard-Key
- Scroll Knob
- USB 2.0 x 2ports
- Gigabit Ethernet Port (RJ-45) x 1port
- 8GB Internal Data Storage (SSD)
- 3 Status LED

# Audio Converter

## DSA-SC 01

FM 신호분석용 고성능 오디오 신호 변환기!!!  
 다양한 FM 신호 변환 기능 제공 → FM 무선국 검사 완벽 대응



### Audio Converter Specifications

- Digital AES3id Input Voltage: 1Vpp
- Audio Output:
  - Digital AES3 Output Voltage: 3.3Vpp
  - Analog Audio Output: +12dBu@0dBFs(AES3id)
  - Analog MPX Output: +5Vpp@0dBFs(AES3id)
- Audio Output mode:
  - Digital Output: AES3 Audio(48K), AES3 MPX(192K)
  - Analog Output: Analog Audio, Analog MPX
- Analog Audio Spec.
  - Frequency Response:  $\leq \pm 0.005\text{dB}@20\text{Hz}\sim 15\text{KHz}$
  - THD+N:  $\leq 0.002\%@20\text{Hz}\sim 15\text{KHz}, +12\text{dBu}$
  - L/R Audio Crosstalk:  $\leq -100\text{dBc}@20\text{Hz}\sim 15\text{KHz}$
  - L/R Audio Balance:  $\leq \pm 0.01\text{dB}@20\text{Hz}\sim 15\text{KHz}$
- Analog MPX Spec.
  - Frequency Response:  $\leq \pm 0.005\text{dB}@20\text{Hz}\sim 60\text{KHz}$
  - THD+N:  $\leq 0.004\%@20\text{Hz}\sim 60\text{KHz}, +5\text{Vpp}$
  - L/R Audio Crosstalk:  $\leq -70\text{dBc}@20\text{Hz}\sim 15\text{KHz}$

### General

- Dimensions: 108(W) x 196(D) x 50(H), mm
- 9V DC Adaptor: 100V ~ 240V
- Operating Temperature: 0°C ~ 45°C

### Audio Converter Interface

- Digital Audio Input: 75Ω, unbalanced, BNC
- Digital Audio output: 110Ω, unbalanced, BNC
- Analog Audio Output: +12dBu@600Ω, balanced, XLR
- Analog MPX Output: +5Vpp@10KΩ, unbalanced, BNC

