

### CTA611

#### AM Radio Systems Trainer

1. **Oscillator mode: Quartz crystal oscillator.**
2. **Carrier frequency range: 1 MHz, 4 MHz (SSB), 4.5 MHz (DSB).**
3. **Ability to transmit audio signal.**
4. **Frequency response: 400 Hz ~ 8 kHz.**
5. **SSB/DSB Modulator / Demodulator.**
6. **With dip switches for the fault simulation.**

### CTA612

#### FM Radio Systems Trainer

1. **Oscillator mode: Quartz crystal oscillator.**
2. **Carrier frequency range: 100MHz.**
3. **Ability to transmit audio signal.**
4. **Dynamic range: >70 dB.**
5. **Frequency response: 400 Hz ~ 8 kHz.**
6. **With dip switches for the fault simulation.**



#### AM Radio Systems Trainer

##### Transmitter Features

1. Transmitter mode: Direct up conversion transmitter.
2. Transmitted power: >0 dBm.
3. Carrier-to-noise ratio: >100 dB
4. Tunable audio signal source (Audio signal frequency: 100Hz ~ 1 kHz).
6. SSB/DSB Modulator.
7. By using dip switches for the fault simulation.

##### Receiver Features

1. Receiver mode: Heterodyne.
2. Sensitivity: <-70 dBm.
3. AM receiver carrier frequency: 565 kHz ~ 1605 kHz.
4. Audio output power: 0.2W.
5. SSB/DSB Demodulator.
6. By using dip switches for the fault simulation.



#### FM Radio Systems Trainer

##### Transmitter Features

1. Transmitter mode: Direct up conversion transmitter.
2. FM transmitter carrier frequency: 100 MHz.
3. Transmitted power: >-3 dBm.
4. Carrier-to-noise ratio: >100 dB
5. Type of antenna: AM antenna.
6. Tunable audio signal source (Audio signal frequency: 100 Hz ~ 1 kHz).
7. High sensitivity microphone.
8. By using dip switches for the fault simulation.

