



## KL-900C

### AM/FM Transmitter & Receiver System

AM Transmitter & Receiver



FM Transmitter & Receiver



The KL-900C AM/FM Transmitter and Receiver System is a comprehensive and self-contained system suitable for demonstrating AM and FM transmission. The system contains four separate modules-the AM transmitter, AM receiver modules, FM transmitter and FM receiver modules.

#### ► Features

- System consists of AM transmitter and receiver and FM transmitter and receiver
- Modules have switched fault DIP switches for fault-finding experiments
- Includes full documentation

#### ► Specifications

##### 1. KL-93061 AM Transmitter

- (1) AM transmitter is perfect to produce 1MHz.
- (2) Work with AM receiver experiment modules for experimenting on AM communication system
- (3) Basic experiment curriculum includes : crystal oscillator, modulator percentage, sine wave/voice modulator, balance modulator, RF amplifier, adjustment of the coupling, antenna adjustment
- (4) Equipped with DIP switch for fault simulation, students can practice their troubleshooting skills by setting the DIP switch to different positions.

##### 2. KL-93062 AM Receiver

- (1) AM receiver frequency range : 535KHz ~ 1605KHz
- (2) Intermediate frequency : 455KHz
- (3) Adopt AM transmitter experiment modules for implementation of AM communication system.
- (4) Basic experiment curriculum includes oscillator mixer, 1st IF amplifier, 2nd IF amplifier and audio amplifier.
- (5) With DIP switch for fault simulation, students can practice troubleshooting skills by setting the DIP switch to different positions.

##### 3. KL-93063 FM Transmitter

- (1) With perfect FM transmitter which is able to produce 10.7MHz Intermediate frequency

- (2) Work with FM receiver experiment module to perform the experiment of FM communication system.
- (3) Basic experiment curriculum includes crystal oscillator, frequency modulator, RF buffer, reference oscillator, frequency tachometer and audio modulator.
- (4) Equipped with DIP switch for fault simulation, students can practice troubleshooting skills by setting the DIP switch to different positions.

##### 4. KL-93064 FM Receiver

- (1) FM receiver frequency range : 88MHz~108MHz
- (2) Frequency is shown by 7 segment LED display
- (3) Basic experiment curriculum includes tuner, FM IF amplifier, FM MPX and audio amplifier.
- (4) Student can practice troubleshooting skills by setting the DIP switch to different positions for failure simulation.

##### 5. CI -18001 Power Supply

- (1) Output :  $\pm 5V$ , 0.5A;  $\pm 12V$ , 0.5A
- (2) Input : AC 110/220V

##### 6. Module Description

- (1) 2mm gold plated plug
- (2) Components, symbols and building blocks are printed on fiber PC board. Circuit components are fixed on backside.
- (3) Module is fixed on the transparent acrylic housing.

##### 7. Accessories (KL-98003)

- (1) Experiment manual
- (2) Small type adjustable antenna
- (3) Mini-microphone