

## TV-102 | COLOR TV TRAINER



### Technical specifications :

The TV-102 is an ideal trainer for the Radio – TV laboratories for the hands-on training of students in how to control, measure and troubleshoot a malfunction in the TV receiver.

The system is placed inside a transparent plexi-glass cabinet 8mm thick (total dimensions in cm 65Wx45Hx65D) providing the possibility of the observation of all the TV receiver's circuits as well as the instructor's intervention - when needed - through specially

designed inputs (openings) of the unit (doors at the back of the cabinet).

At the front side of the unit there is a panel (dimensions in cm 65W X 27D) with the circuit (block) diagram of the receiver where all the necessary waveforms of each block can be seen. There are also several switches for the introduction and restoration of various faults by the instructor.

On the panel and throughout the most suitable parts of the receiver's circuit are the test points of the TV system. The TV-102 Color TV trainer has 43 test points and can present 26 faults in its basic circuits.

2mm sockets are placed at all the test points of the trainer (except for the ground where the socket is 4mm) for the connection of various instruments (oscilloscopes, generators, etc) for the acquisition of the necessary waveforms.

The main power supply of the unit is controlled by a key-switch that incorporates a panic button as well. The color TV receiver is made by PHILIPS.

### **Electrical specifications :**

CCIR standard

PAL – SECAM system

VHF – UHF ranges

14 inches screen, dark, square and flat

### **Also:**

- Auto programming & auto micro-tuning
- 69 stations memory
- 24h Timer switch
- Information display on screen (OSD) with the presentation of the programs' numbers, the menus and the operations
- The tuning and the operation are made by a remote control.

The Color TV trainer includes :

- a. A remote control
- b. A folding telescopic antenna
- c. All the necessary cables & connectors (SCART,BNC etc)
- d. Books :
  - Instruction and operation manual, TV service manual.
  - Theory and Experimental manual (Instructor's and Student's).