



# 3DTV TRAINER

## MODEL - 3DTV100

This trainer has been designed with a view to provide theoretical and practical knowledge of a general 3DTV on SINGLE P.C.B.



### SPECIFICATIONS

1. Display : 109 cm (43) Screen  
Display Resolution : 1920 X 1080  
Aspect ratio : 16:9  
Functionality : 3D
2. Interface :  
HDTV (Digital Video) Input : HDMI  
Composite Video Input : RCA Yellow,  
Audio Input : RCA- Left (White), Right (Red)  
Component Input : Pr(Red), Pb (Blue)  
Audio output : Headphone Audio output  
2 USB ports
3. Test Points : 6 Nos.
4. Faults : 6 Nos.
5. Power supply : 230V + 15% AC, 50 Hz, 60 watts.
6. **Books for Audio video Engineering : 10 Nos in pdf Format**
7. **Mp4 Video Class for Audio video Engineering : 40 Classes in Mp4 on Pen Drive**
8. The complete circuit diagram should be is screen printed on component side of the PCB with circuit and Parts at the same place. The true value of component is printed on component side.  
The PCB with components on front side is fitted in elegant wooden box having lock and key arrangement  
The acrylic cover is fitted on PCB to safeguard parts. It has holes for alignment and repair.  
The testing points are provided with 1.25" tags to connect CRO probe All Trainers are operated on 230V AC mains and must be self-contained unit.
9. Standard Accessories :
  1. Trainer PCB with LED display.
  2. Different input Cables
  3. A Manual having 10 practical.

**Sigma Trainers and Kits**  
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**Dealer:-**

## EXPERIMENTS

1. To Study Specifications of 3DTV.
2. To Study the Block Diagram and working principle
3. To Study Input/output signals of different sections
4. To Study Complete circuit with different sections
5. To Study Remote Section
6. To understand/observe the function of external and Internal controls
7. To measure Test Point Voltages for different sections
8. To observe Test Point Waveforms for different sections
9. To measure Video and Audio gain (sensitivity) with Pattern Generator
10. To demonstrate and understand different types of faults
11. To study faults diagnosis method
12. To study ICs used in 3DTV
13. To study glossary of the Technical Words
14. To study complete schematic circuit Diagram