



Sciencetech 2651A Understanding LED Television is a friendly training platform to learn the operation of LED Television receiver. It is demonstrator cum training system specifically designed for the comprehensive practical study on LED TV engineering for the beginners with a basic knowledge of the various electronic building blocks and fundamentals of communication system.

This didactic product develops the sense of investigation within the student and familiarises him with repair/design techniques. One of the main features of this training system is fault simulation to educate on actual fault finding, by simulating faults on this platform. The complete block diagram of LED TV system is printed on the mimic. Finally this equipment allows us to do experiments and to observe waveforms/signals/voltages of different sections, which are guided thoroughly by theory and product tutorials to gain in-depth knowledge of the system.

Features

- ▶ **Superior quality 20-inch full HD LED Color Television/ PC Monitor**
- ▶ **Manual and Remote control operation**
- ▶ **PAL/ NTSC video formats**
- ▶ **Composite video input/ VGA input**
- ▶ **Complete block diagram of a LED TV system on-board**
- ▶ **The different circuit sections of LED TV are exposed on a PCB**
- ▶ **Easy identification of different parts and components of the system at a glance**
- ▶ **Easy measurement of voltages and observation of waveforms on test points**
- ▶ **Soldering free fault creation and troubleshooting**
- ▶ **Online Product Tutorial**
- ▶ **2 Year Warranty**

Designed & Manufactured by -
Sciencetech Technologies Pvt. Ltd.

94, Electronic Complex, Pardesipura, Indore- 452 010 India,
© +91-731- 4211100, ✉ info@sciencetech.bz, 🌐 www.SciencetechWorld.com

Scope of Learning

- Study the specifications of full HD LED Television
- Study the block diagram and operating principle of LED TV
- Study the functions of front panel controls/ keys of LED TV
- Study the functions of controls on Remote
- Study of circuit description and functions of different sections
- Study and observation of waveforms/signals of different sections
- Study and measurement of voltages of different sections
- Study of switch faults and troubleshooting in different sections

Technical Specifications

Display

Display Type	: LED, HD
Screen Size	: 20 Inch (50cm)
Display Resolution	: 1600 X 900 pixels
Contrast Ratio	: Mega Contrast Ratio
Display Color	: 16.7 Million Display Colors
Viewing Angle	: 170 (H) X 170 (V)
Refresh Rate	: 50 Hz

Video Interface

: Video Input/ VGA input

Audio Interface

: RCA L & R

Audio Output Power

: 8W X 2

Receiving System

: PAL BG/I/DK and NTSC

Channel Coverage

: VHF-2-12; UHF21-69; CATV (X~Z+2, S11S41)

Antenna Impedance

: 75Ω Unbalanced

Application

: Color Television/ PC Monitor

Connectivity

USB	: 1 X USB 2.0 (MPEG, JPEG, MP3)
HDMI	: Yes (1 X HDMI)
Other Connectivity	: RF In, AV In, Ypbpr In, VGA In, VGA Audio In, AV out

Composite A/V

: Yes

Component Video

: Yes

Analog Audio

: Yes

Test Points

: 55 nos

Switched Faults

: 50 nos

Remote Battery

: UM-4, "AAA" 1.5V (2 nos)

Mains Supply

: 110-260V AC ± 10%, 50/60Hz

Power Consumption

: 35W

Weight

: 11 Kg (approximately)

Dimension

: W430 X D252 X H82

Product Tutorial

: Online (on www.SciencetechLearning.com)

Included Accessories

: Remote, Mains cord, 34 Pin FRC cable, 15 Pin D type cable each 1 no.