



10937B Understanding Wi-Fi / Smart LED Television is a friendly training platform to learn the operation of Wi-Fi/Smart LED Television receiver. It is demonstrator cum training system specifically designed for the comprehensive practical study on Wi-Fi/Smart LED TV engineering for the beginners with a basic knowledge of the various electronic building blocks and fundamentals of communication system.

A Wi-Fi/Smart television have a built-in wireless adapter. This allows the TV to connect to the wireless high-speed internet connection and stream online content like movies and music through subscription services.

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 Wi-Fi/Smart 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

1. Superior quality 32-inch full HD Wi-Fi/Smart LED Color Television/ PC Monitor
2. Manual and Remote control operation
3. Built in Wi-Fi adaptor
4. PAL/ NTSC video formats
5. Composite video input/ VGA input
6. Soldering free fault creation and troubleshooting
7. Complete block diagram of a Wi-Fi/Smart LED TV system onboard
8. Easy identification of different parts and components of the system at a glance
9. Easy measurement of voltages and observation of waveforms on test points

Object

1. Study the block diagram and operating principle of Wi-Fi /Smart LED TV
2. Study the functions of front panel controls/ keys of Wi-Fi/Smart LED TV
3. Study of circuit description and functions of different sections
4. Study and observation of waveforms/signals of different sections
5. Study and measurement of voltages of different sections
6. Study the function of Wi-Fi adaptor to connect to the wireless high-speed internet connection
7. Study of switch faults and troubleshooting in different sections

Note: Specifications are subject to change.

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Technical Specifications

Display

Display Type	:	Wi-Fi/Smart LED, HD
Screen Size	:	80cm
Display Resolution	:	1366 X 768 pixels
Contrast Ratio	:	Mega Contrast Ratio
Display Color	:	16.9 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 and NTSC
Channel Coverage	:	VHF-2-12; UHF21-69; CATV (X~Z+2, S11S41)
Antenna Impedance	:	75W Unbalanced
Application	:	Color Television/ PC Monitor

Connectivity

Wi-Fi Connectivity	:	Yes
USB	:	1 X USB 2.0 (MPEG, JPEG, MP3)
USB	:	1 X USB 3.0 (MPEG, JPEG, MP3)
HDMI	:	Yes (1 X HDMI)
Other Connectivity	:	AV In, VGA In, VGA Audio In, AV out, SPDIF, LAN
Composite A/V	:	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 \pm 10%, 50/60Hz
Power Consumption	:	65W
Weight	:	12 Kg (approximately)
Dimension	:	W430 X D252 X H82
Included Accessories	:	Remote, Mains cord, 25 Pin D type cable, 15 Pin D type cable each 1 no.

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