



Sciencetech 2663 Understanding Close Circuit Television System is a friendly training platform to learn operation of close circuit television system. It is demonstrator cum training system specifically designed for comprehensive practical study of CCTV technology for beginners. It provides basic knowledge of various electronic building blocks and fundamentals of communication system. Students learn about system components, their use, placement of cameras, wiring and operation of the systems along with basic troubleshooting.

Sciencetech 2663 develops the sense of investigation in students and familiarizes them in repair/design techniques. One of the main features of this training system is fault simulation to practice actual fault finding by simulating faults on this platform. The complete block diagram of CCTV system is printed on the mimic. This equipment allows students to do experiments and to observe waveforms/signals/voltages of different sections, which are guided thoroughly by theory and product tutorials.

Features

- Complete block diagram of a CCTV system on-board.
- Easy identification of different parts and components of the system at a glance.
- Easy measurement of voltages and observation of waveforms on test points.
- VGA LCD display.
- IR CCTV camera.
- PAL/ NTSC video formats.
- Composite video input/VGA input.
- Soldering free fault creation and troubleshooting.
- Ethernet interface for remote view.
- HDMI and VGA interface.
- On board USB for pendrive and mouse interface.
- Online product tutorial.

Scope of Learning

- Study the block diagram and operating principle of CCTV system.
- Study the functions of front panel controls/ keys of CCTV system.
- 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

Dome camera

Camera type	: CCTV indoor IR camera
Resolution	: 720p (1 megapixel)
CCD image sensor	: 1/3" image format
Video output	: 1.0 Vpp, 75 Ohms, RCA socket.
Audio interface	: RCA L & R

Bullet camera

Camera type	: CCTV indoor/outdoor IR Bullet HD camera
Resolution	: 1080p (2 megapixel)
Video output	: 1.0 Vpp, 75 Ohms, RCA socket
Audio interface	: RCA L & R

Digital Video Recorder: 4 channel (DVR)

Hard disk (HDD) : 500GB

Component video : Provided

USB interface : 2nos.

VGA interface : Provided

Ethernet interface : Provided

Display type : VGA LCD display

Test points : 35 nos.

Switched faults : 36 nos.

Mains supply : 110-260V AC, 50/60Hz

Weight : 10 kg. (approximately)

Dimensions : W430 X D252 X H82 (in mm)

Product tutorial : Online (on www.SciencetechLearning.com)

Package contains	Mains cord	-1no.
	Dome CCTV camera	-1no.
	Bullet CCTV camera	-1no.
	Earphone	-1no.
	USB mouse	-1no.
	VGA monitor	-1no.
	VGA Cable	-1no.
	Adaptor	-1no.
	BNC to BNC cable (male to male)	-1no.
	Microphone	-1no.