



Sciencetech 2662A Understanding DVD/CD Player is a simplified training platform to learn the operation of Optical Disc Player. It is demonstrator cum training system specifically designed for the comprehensive practical study on Optical Disc player 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 DVD/CD Player 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

- Manual and Remote Control Operation
- DVD/ VCD/CD/ MP3/ JPEG/ WMA Playback
- PAL/ NTSC video formats
- USB reader (2.0)
- Composite video output
- Complete block diagram of a DVD/CD Player on-board
- The different circuit sections of DVD/CD Player exposed on 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

Scope of Learning

Study of :

- Specifications of DVD/CD player
- Block diagram and operating principle of DVD/CD player
- Functions of front panel controls/ keys of DVD/CD player
- Functions of controls on Remote
- Circuit description and functions of different sections
- Observation of waveforms/signals of different sections
- Measurement of voltages of different sections
- Switch faults and troubleshooting in different sections

Technical Specifications

Signal System	:	PAL/ NTSC
Playable Discs formats	:	DVD-Video; DVD+/-R/RW; Audio CD; CD-R/RW (All 8 cm/12 cm discs)
File Compatibility	:	.avi/.mpg/.mpeg/.mp3/.wma/.jpg/.jpeg
Sampling frequency	:	8 to 48 KHz (MP3), 32 to 48 KHz (WMA)
Bit Rate	:	8 to 320 kbps(MP3), 32 to 190 kbps (WMA)
LASER	:	Semiconductor LASER
LASER Wave Length	:	650/635 nm
Modulation	:	EFM
On-Screen Display	:	Title number, Chapter number, Playing time, Channel, Language, Subtitle, Angle
Video Output	:	1Vpp, 75Ω, Sync negative, RCA jack x 1
Audio Output	:	2Vrms (1KHz,0dB),600Ω, RCA jack (L/R) x1
Panel Control	:	Power On/Off, Open/Close, Play/Pause
Remote Control Function	:	Power, Stop, Open/Close, Play, Pause/Step, Scan, Skip, Title, Navigation keys, Audio, DVD Menu, Display, Enter, Return, Zoom, etc.
Test Points	:	40 nos.
Switched Faults	:	18 nos.
Remote Control Battery	:	1.5V, (R03, AAA size)
USB Reader	:	1 X USB 2.0
Mains Supply	:	110-260V AC ± 10%, 50/60Hz
Power Consumption	:	11W
Bus Power Supply (USB)	:	DC 5V, 500 mA
Dimension (mm)	:	W430 X D252 X H82
Weight	:	7 Kg (approximately)
Product Tutorial	:	Online (on www.SciencetechLearning.com)
Included Accessories	:	Mains cord, Remote, A/V cable, DVD 1 no (each)

