

REMOTE COLOUR TV TRAINER With Single IC MODEL - CDM101D

This trainer has been designed with a view to provide theoretical and practical knowledge of a general REMOTE COLOUR T.V. on SINGLE P.C.B. with FAULT CREATING FACILITIES.



SPECIFICATIONS

1.	System :	CCIR-B-PAL-G, 625 lines.
2.	Power supply :	230V + 15% AC, 50 Hz.
3.	Regulation range :	195V AC to 265V AC.
4.	Power consumption :	70 watts.
5.	Gain Limited sensitivity :	60 Db for Video. 30 Db for Audio.
6.	Sound output :	5.0 watts maximum.
7.	Picture Tube size :	51cms - 20 Inch (Diagonal)
8.	Tuner Channels :	VHF 2 to 12, UHF 21 to 68, S-band and Hyper-band.
9.	Tuner Channel Positions :	106 Channel positions.
10.	Program Memory :	90 programs.
11.	On Screen display for setting selection Tuning.	of all controls e.g. Volume, Brightness, Contrast, Colour, Channel and band
12.	Audio - Video In and Out sockets.	
13.	Sections :	Operating unit and Tuner, Remote Receiver, Video I.F., Sound I.F., Colour decoder, Video amplifier, Horizontal oscillator, Horizontal driver and output, S.M.P.S, Vertical Oscillator, Picture tube, Remote transmitter.
15.	Controls :	Volume, Brightness, Contrast, Colour, Channel and band selection, Tuning.
14.	Remote Control functions :	Volume, Brightness, Contrast, Colour, Channel selection, Audio mute
15.	Distortion :	10 to 15% in Live program due to expanded P.C.B.
16 .	Books for Audio video Engir	eering : 20 Nos in pdf Format
17.	7. Mp4 Video Class for Audio video Engineering : 40 Classes in Mp4 on Pen Drive	
16.	Standard Accessories :	1. Trainer P.C.B.
		2. Picture tube fitted in molded cabinet.
		3. A Manual having 15 practical.
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EXPERIMENTS

- 1. To Study Specifications of Colour T.V.
- 2. To Study Safety precautions
- 3. To Study the Block Diagram and working principle
- 4. To Study the terms, definition and nomenclature used
- 5. To Study Input/output signals of different sections
- 6. To Study Electronic tuner section
- 7. To Study Video I.F. Section with circuit diagram
- 8. To Study Sound I.F. Section with circuit diagram
- 9. To Study Horizontal Oscillator section with circuit diagram
- 10. To Study Vertical Oscillator Section with circuit diagram
- 11. To Study Colour Decoder Section with circuit diagram
- 12. To Study Video Amplifier Section with circuit diagram
- 13. To Study E.H.T. Section with circuit diagram
- 14. To Study S.M.P.S. Section with circuit diagram
- 15. To Study Colour Picture Tube Section with circuit diagram
- 16. To Study Remote Receiver Section
- 17. To Study Remote Transmitter Section
- 18. To understand features of latest TVs
- 19. To understand External and internal controls
- 20. To understand/observe the function of external and Internal controls
- 21. To measure Test Point Voltages for different sections
- 22. To observe Test Point Waveforms for different sections
- 23. To measure Test Point Resistance for different sections
- 24. To understand the Alignment and adjustment procedure
- 25. To carry out V.I.F. alignment with Sweep Generator
- 26. To carry out S.I.F. alignment with Sweep Generator
- 27. To measure Video and Audio gain (sensitivity) with Pattern Generator
- 28. To demonstrate and understand different types of faults
- 29. To study faults diagnosis method
- 30. To understand Quick Testing method
- 31. To study ICs used in different Colour TV circuits
- 32. To observe Part list
- 33. To understand Tuner's 106 channels including "H" and "S" Band
- 34. To observe data Sheets of Coils used
- 35. To study glossary of the Technical Words
- 36. To study Complete Schematic Circuit Diagram