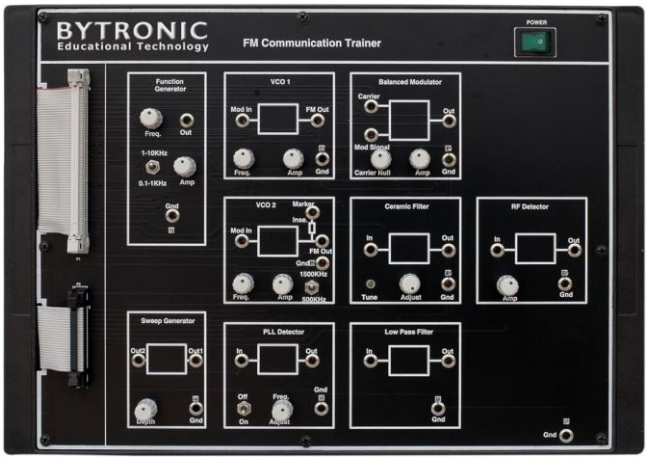
7504 – FM Communication Trainer



Key Features:

- Functional Blocks indicated via on board mimics
- Built in Function Generator
- Test points
- FM Detectors (PPL, Quadrature, Foster-seely and Ratio)

The 7504 FM Communication trainer is part of an analogue communication range which provides all the necessary inputs, test points and connections for experimentation. The 7504 trainer teaches students the principles of FM communications through observation of waveforms via various on board test points.

Experiments

- Frequency deviation and modulation index
- Marker insertion to evaluate frequency deviation
- Spectrum of the FM signal
- Study phase locked loop detector

Specification

Function Generator:	
Waveform	Sine
Amplitude	Adjustable from 0-4Vpp
Frequency	Adjustable from 0.1 to 10KHz
VCO1	
Waveform	Sine
Frequency	400kHz to 1500KHz
Amplitude	Adjustable from 0-2Vpp
Inputs	Modulating Signal
VCO2:	
Waveform	Sine
Frequency	400KHz to 1500KHz
Amplitude	Adjustable from 0-2Vpp
Inputs	Modulating Signal, marker
Sweep Depth	Frequency 7KHz (Adjustable)
RF Detector	Input level adjustable
Balance modulator	Adjustable output amplitude & adjustable carrier null
Ceramic Filter	Central frequency 455KHz
Bandwidth	3 ± 1KHz
FM Detectors	Phased Locked Loop Detector Quadrature Detector Foster-Seely and Ratio Detector

Test Points	8
Power	230V ± 10%, 50/60Hz
	W340, H100, D240
Approximate weight	2.5Kg

Ordering Information

Model Number:	**7504**
Consists of:	FM Communication Board
	Set of Connection Leads & Power Lead
	Manual

Notes.

1. Specification is subject to change without notice.

2. All dimensions are in mm unless otherwise stated

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