



DTH (Direct to Home) is a satellite-aided TV rebroadcast system, featuring a compressed digital encoded signal for uplink / downlink. Today most of the DTH customers in developed television market get their programming through a Direct Broadcast Satellite (DSB) provider.

**Sciencetech TechBook 2665 Colour LCD-DTH TV Training system** is designed using latest semiconductor technology. It is an ideal training platform to learn the operation of Colour LCD-DTH receivers.

One of the main features of this TechBook is fault simulation to train on actual fault finding, by simulating faults on this platform. The complete block diagram of Colour LCD-DTH TV is printed on the mimic. In addition the TechBook will be of immense value to practicing engineers and students engaged in study of LCD-DTH TV at the diploma and degree level.

### Features

- Portable design
- Comprehensive learning solution on LCD-DTH TV Technology
- Functional block diagram indicated on main board.
- Manual & remote control operation
- 5.7" TFT LCD (64k, Color LCD)
- Gold plated Test Points
- Fault creation and diagnosis
- e-Learning material

### Scope of Learning

#### Study of :

- LCD TV technology
- LCD RGB colour using fault creation
- Video decoder & its respective sections
- $Y_C, C_B$  to RGB conversion
- Introduction and basics of DTH system
- Various components of DTH receiver system
- Various blocks of DTH system
- Working principle of DTH system
- Various types of fault creation and troubleshooting
- Video standards

### Technical Specifications

<b>Colour TFT LCD</b>	: 5.7" TFT LCD (64k, Color LCD)
<b>Resolution (pixel)</b>	: 320 x 240 (RGB)
<b>RF Input</b>	: 950 - 2150 MHz
<b>Input Impedance</b>	: 75Ω
<b>RF Output</b>	: 470 MHz to 862MHz
<b>Dish Input</b>	: F - Connector
<b>Audio Output</b>	: Built in speakers (L/R)
<b>Video Output</b>	: PAL/NTSC
<b>IF Frequency</b>	: 70MHz
<b>Uplink Satellite</b>	: INSAT 4B
<b>Controls</b>	: Channel Up/Down, Volume Up/Down, Power On/Off and Reset
<b>Test Points</b>	: 34 nos. (Gold plated)
<b>Dimensions (mm)</b>	: W 326 x D 252 x H 52
<b>Power Supply</b>	: 110V - 240V AC, 50Hz/60Hz
<b>Weight</b>	: 1.5 Kg. (approximately)
<b>Operating Conditions</b>	: 0-40°C, 85% RH
<b>Included Accessories</b>	: Mains cord, Power Supply, Remote, Dish Antenna with accessories, LNB
<b>Pencil Cell (AAA)</b>	: 2 nos. (1.5V x 2)
<b>Dish Connecting wire</b>	: 10 meter (approximately)