

CableScout™ 220

Quick Reference

Models TV220E and TV220EX



Introduction

CableScout 220E is a highly advanced time domain reflectometer for telecommunication technicians to diagnose trouble on modern hybrid cable tv networks or similar 75-ohm coaxial cable systems. It can additionally be used on other types of cable, either directly or via a matching transformer.

Getting Started



Charge the Battery

Before first use charge the battery for at least one hour. Connecting the included AC adaptor or DC vehicle power lead to the 12V input socket at the back of the unit. The LED alongside will indicate that the unit is charging.

Power On

Press and release the button ①. The display should light up and display the product logo.

Settings

Upon first power up the settings screen should be shown. If not, select the settings ≡ menu and set the unit to your local time, preferred language, distance units etc.

Full Instructions

The full operating instruction for the CableScout can be accessed in your language by pressing the help button (?) at any time.

Specifications

General

- Power Source: Internal Lithium Polymer Battery, four cells x 15 Wh
- External Power: 12V dc (10 to 15 V), 2.5 A
- Typical operating time: >8 hours at typical screen brightness
- Display: 7" (180 mm) diagonal, 1024 x 600 full colour
- Backlight: 0 to 800 nits
- Result storage: Internal flash drive
- Connectivity: USB (OTG), Ethernet (100 base T), Wi-Fi, Bluetooth
- Operating temperature: 0 to 50 C
- Storage temperature: -20 to 70 C
- Size: TV220E 262 x 162 x 55 mm, TV220EX 291 x 178 x 93 mm
- Weight: TV220E 1.15 kg (2.54 lb), TV220EX 2.30 kg (5 lb)

Test Specifications

- Type: Pulse
- Pulse shape: ½ sine
- Pulse widths: 2, 5, 25 ns precision, 125, 250, 500 ns digital
- Impedance: 75 ohm
- Amplitude: >5V peak
- Input voltage protection: ±400 V peak*
- Overvoltage category: CAT-I (TNV-3, 1.5 kV surge)
- Filtering: 1, 2, 4, 8, 16, 32
- Maximum distance: 18.3 kft (5.58km) @ VoP = 0.93
- Horizontal resolution: 204 ps (approx. 75 mm or 3")



*CAUTION ⚠ NOT FOR TESTING POWER CIRCUITS WITHOUT SUPPLEMENTARY ISOLATION
Designed and manufactured in the USA by Tempo Communications Inc.,
1390 Aspen Way, Vista, California USA, 92081, using components sourced globally.

Battery : This product's cells comply with Battery Regulation 2023/1542.
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