# Bicotest
AN SPX BRAND

**power and communications**

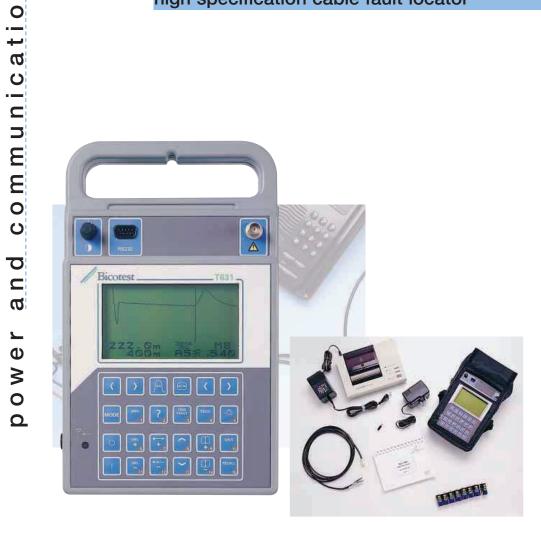## T631 TDR

## high specification cable fault locator



- The ultimate hand-portable cable-test tool for cable television and telecoms industries. At 3 metres it combines the shortest distance with a highly practical 12 kilometre long range.

- Automatic fault-finding is a simple touch-button operation enhanced by high resolution display. Faults and high reflective features are evaluated by a unique Return Loss Measurement function.

- This also provides a useful test method for contractors to demonstrate that connectors, taps and other cable work meets International Standards.

- A total of thirteen operating ranges with zoom facility includes very short pulse widths to identify cable features that are close together or nearby. These can be measured using the twin cursors.

- Genuine 2ns sine-squared pulse gives ultimate fault resolution.

- Pulse widths can be selected automatically for ease of fault location, or may be selected manually for uniform Return Loss Measurement.

- PC compatibility ensures waveforms can be analysed, stored and re-loaded for on-site, dynamic comparison of the waveforms when testing coaxial, CATV, CCTV and data cable systems.

- Dedicated function keys, help menu and clear display make the T631 easy to use.

- Dedicated mains blocking filter accessory gives high resolution fault location on LV mains cables.

AS CLOSE AS YOU CAN GET TO FAULTLESS CABLE PERFORMANCE

# Specifications

## T631

| | | |
|---|---|---|
| RANGES : | | 0-3 m to 0-12 kms full screen, in 13 ranges (zoom of x2, x4, or x8 around cursor, depending on range) |
| ACCURACY : | | Typically < 0.5% |
| RESOLUTION : | | ± 0.05% of range at 12 kms |
| RETURN LOSS MEASUREMENT : | | 0 to -30 dB |
| PROPAGATION VELOCITY : | PVF : | Variable 0.300 to 0.999 |
| | V : | 90 to 300 m/µs |
| | V/2 : | 45 to 150 m/µs |
| GAIN : | | 0-60 dB max, selectable in 6 dB steps |
| | | Maximum sensitivity 15 mV = full scale |
| PULSE CHARACTERISTICS : | Amplitude : | 2.5 V into selected impedance |
| | Width : | 2, 10, 30, 100, 300 or 1200 ns, user selectable |
| | Output Impedance : | 50, 75 or 93 Ohms, user selectable |
| | Noise Reduction Filter : | 16 MHz Low pass |
| OUTPUT : | Sockets : | BNC (Female) |
| | Protection : | 250 V rms, 0-60 Hz |
| DISPLAY : | Type : | High resolution LCD with backlighting (switchable) |
| | Cursor : | Two active cursors with individual control |
| MODES : | | Direct |
| | | Direct and Memory |
| | | Differential Direct and Memory |
| | | Memory |
| MEMORY : | | 15 locations that retain information until overwritten |
| INTERFACE : | | RS 232C to printer or PC |
| POWER : | | Internal Ni-Cad Batteries - 8 hours operation |
| | | (Auto Power-Off 5 mins after last key operation) |
| | | Ext AC Adaptor, 120 V or 230 V available |
| | | Ext DC, 12 V to 20 V operating; 15 V to 20 V charging |
| ENVIRONMENTAL : | Operating Temperature : | -5°C to +50°C |
| | Storage : | -20°C to + 65°C |
| | Humidity : | 93% at +40°C |
| WATER INGRESS : | | IP54 |
| SAFETY : | | IEC 1010 |
| SIZE (mm) : | | 75 x 183 x 300mm inc handle |
| WEIGHT (kg) : | | 2.5 kg inc battery |
| DELIVERY INCLUDES : | | Weatherproof Shoulder Bag, 8 rechargeable NiCad cells, 1 x 3 m Test Lead, BNC to Crocodile Clips, AC Adaptor, DC Plug, Operating Manual |
| ORDERING DETAILS : | T631 Option A : | 230 V ± 10%, UK Plug |
| | T631 Option B : | 120 V ± 10%, USA Plug |
| | T631 Option C : | 230 V ± 10%, Euro Plug |
| OPTIONAL ACCESSORIES : | X600 TRACEability | IBM Windows compatible PC Interface Software, inc 3.5" disc and cable; supplied free of charge upon request |
| | T631F | AC Blocking Filter for use on live AC power cables |
| WARRANTY: | | 1 year (2nd available as an option |

# Key features

- **Purpose designed for CATV, CCTV and coaxial cable**

- **15 memories for on-site waveform comparison and storage**

- **Suitable for any type of metallic cable, including live AC in conjunction with a T631F blocking filter**

- **Genuine 2ns sine-squared pluse and short pulse widths give unrivalled definition**

- **Single touch-button automatic fault location or feature measurement**

- **All faults clearly identified - from open circuits to wet joints**

- **Unique Return Loss Measurement**

- **Use of T631F mains blocking filter gives safe, high resolution, fault location on LV mains networks.**

- **Full PC compatibility for in-depth fault analysis**

- **Measures metres, feet or time**

- **Easy to operate**

- **Large, clear waveform display of full trace for accurate diagnosis**

- **Comprehensive training and support services**

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## World leaders

## Technical support

## Servicing and repair

## Training

Radiodetection is a proud member of the SPX group of companies, which provide technical products and service solutions worldwide.

Radiodetection and its associated companies specialize in the design and manufacture of products for the location and maintenance of underground pipes and cables. Our aim is to be viewed as the supplier of choice of 'high performance' quality equipment using advanced product technologies. We are also committed to both design innovation and customer support.

Radiodetection equipment users have easy access to technical support. A call to your regional representative, or the Radiodetection head office, will put you in contact with our team of field-experienced technical experts.

Radiodetection has a team of factory-trained service technicians and dedicated service facilities. Turnaround is fast, and costs are very competitive.

Product training for your operators and training personnel is available on your site, or at Radiodetection's headquarters. Training is with qualified instructors and each trainee receives a certificate to confirm they have received the training.

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