

Comparison of technical characteristics of TDRs  
**ERSTED TDR RI-307M3 vs BICOTEST Model-T631**

Model/Parameter	ERSTED TDR RI-307M3	BICOTEST Model-T631
Type	<b>2-channel TDR</b>	<b>1-channel TDR</b>
View		
TDR inputs	2 channels	1 channel
Ranges:	0 - 15 m to 0 – 32 km full screen, in 12 ranges (zoom of x2, x4, 8,...x1024 around cursor, depending on range)	0-3 m to 0-12 km full screen, in 13 ranges (zoom of x2, x4, or x8 around cursor, depending on range)
Accuracy:	0.01% ... 0.2%	Typically < 0.5%
Propagation velocity: PVF: V: V/2:	Variable 0.330 to 0.999 50 to 150 m/μs	Variable 0.300 to 0.999 90 to 300 m/μs 45 to 150 m/μs
Resolution:	3 cm in all subranges	± 0.05% of range at 12 kms
Gain:	0-40 dB max, selectable in 255 steps Maximum sensitivity 30 mV = full scale	0-60 dB max, selectable in 6 dB steps Maximum sensitivity 15 mV = full scale
Pulse characteristics: Amplitude: Width: Output Impedance: Noise Reduction Filter:	10 V into selected impedance 10, 20,50, 100, 200, 500, 1000, 2000, 5000, 10000, 20000 or 50000 ns, user selectable from 25 Ω to 520 Ω , user selectable stepless adjustment Digital Averaging 1...128	2.5 V into selected impedance 2, 10, 30, 100, 300 or 1200 ns, user selectable 50, 75 or 93 Ohms, user selectable 16 MHz Low pass
Output: Sockets: Protection:	2 x BNC (Female) Via external block 380 V rms, 0-60 Hz	BNC (Female) 250 V rms, 0-60 Hz
Display: Type: Cursor:	Color TFT 5.7" (640x480 pixels) Two active cursors with individual control	High resolution LCD with backlighting (switchable) Two active cursors with individual control
Memory:	Waveform Library up to 1000 waveforms Cables VF Library up to 300 cables	15 locations that retain information until overwritten
Modes:	Direct, 2 channels L1/L2 and L1&L2 Comparison (up to 6 sources signal simultaneously): L1 & L2 & M1 & M2 & M3 & M4 Difference(up to 6 sources simultaneously) : L1 / L2 / M1 / M2 / M3 / M4	Direct 1 channel Direct and Memory Differential Direct and Memory Memory

Comparison of technical characteristics of TDRs  
**ERSTED TDR RI-307M3 vs BICOTEST Model-T631**

Model/Parameter	ERSTED TDR RI-307M3	BICOTEST Model-T631
	Internal Cable VF Library  Intermittent faults detect mode  Cross Talk mode  Line impedance estimation  PC data exchange via USB-flash;	
Interface language	English/Russian/Spain (selectable),	English
Interface with PC	Via external USB-Flash	RS 232C to printer or PC
PC software for archiving waveforms	Yes, in the standard delivery	Yes, Optional accessories
Power	Internal Lilon (7.2±0.7) V, 6.6 Ah – 8 hours operation (Auto Power-Off: 2 ...64 mins, after last key operation)  Ext AC-DC Adapter 12 V	Internal NiMH 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: Storage Humidity	-20 °C ... +40 °C -50°C ... +50°C. 98% at 25°C	-5°C to +50°C (23°F to 120°F) -20°C to +65°C (-4°F to 149°F) 93% at +40°C (104°F)
Water ingress:	IP54 – operation (open case) IP67 – transportation (closed case)	IP54
Safety:	TR TS 020/2011 "Electromagnetic compatibility of technical means"  TR TS 004/2011 "On the safety of low-voltage equipment"	IEC 1010
Size, W x H x D:	246x70x124 mm	75 x 183 x 300 mm inc handle
Weight:	2.5 kg inc battery	2.5 kg inc battery
Delivery includes:	AC Adapter 12 V, Connecting cable 75 Ohm, 5.0 m, BNC.M «Alligator clip», Connecting cable 75 Ohm, 0.1m, BNC.M«Alligator clip» Operating Manual CD-ROM with software Accessories bag	Weatherproof Shoulder Bag, 8 rechargeable NiMH cells, 1 x 3 m Test Lead, BNC to Crocodile Clips, AC Adaptor, DC Plug, Operating Manual
Standard Warranty:	1 year	1 year