

## MI 2016 Multi LAN 350



- ✓ Mobile
- ✓ Simple
- ✓ Easy to use
- ✓ Fast & accurate
- ✓ Complete LAN testing



The MI 2016 Multi LAN 350 is a high quality measuring instrument for LAN cabling verification up to CAT 6 / Class E according to international standards EN 50173, TIA/EIA 658B, ISO/IEC 11801, etc. The seamless execution of complete autotest with Pass / Fail evaluation of results can be performed within 55 seconds. The built-in intercom system allows easy communication through the length of the cabling. The autosequence mode and single test mode (useful in troubleshooting), large graphical LCD with backlight, help screens and PC software as standard accessory make LAN testing with MI 2016 simple, easy and comprehensive.

### MEASURING FUNCTIONS:

- Cable length;
- Propagation delay;
- Delay skew;
- Characteristic Impedance;
- DC resistance;
- Attenuation;
- NEXT, Remote NEXT;
- PSNEXT, Remote PSNEXT;
- ELFEXT, Remote ELFEXT;
- PSELFEXT;
- Return loss, REMOTE Return loss;
- ACR, Remote ACR;
- PSACR, Remote PSACR;
- TDR (Time Domain Reflectometer);
- Time Domain Crosstalk;
- Wire map test.

### KEY FEATURES:

- Top class CAT 6 / Class E LAN certification tester for testing high speed networks with a test frequency up to 350 MHz.
- Extensive database of Autotests for complete and quick LAN cabling verification in accordance with all leading test standards.
- Instrument supports UTP, STP, ScTP and FTP cables testing.
- Adapters included in the standard set enables both Channel and Permanent Link connection.
- High resolution TDR with TDnext functions for quick determination of a distance to a faulty point along the cable.
- LAN Link PC software package included in the standard set enables analysis of test data and test report creation.
- PASS / FAIL evaluation of test results according to selected test standard.
- Graphical representation of test results on instrument's display.

### APPLICATION:

- Verification of LAN networks up to CAT 6 / Class E;
- Troubleshooting in IT networks.

### STANDARDS APPLIED:

#### Safety (LVD):

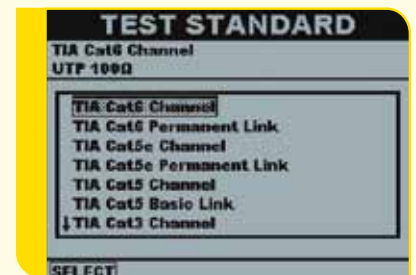
IEC/EN 611010-1;  
IEC 60825-1

#### Functionality:

TIA/EIA 568B Cat 3, Cat 5, Cat 5 E, Cat 6;  
ISO 11801;  
EN 50173



TDNext function for determination of faulty points.



Selectable test standards for complete and quick LAN cabling verification.



# Technical specifications

Function	Measuring range	Resolution	Accuracy
Length	0.0 ... 99.9 m 100 ... 300 m	0.1 m 1 m	±(3% of reading + 5 digits) ±4% of reading
Propagation delay	0 ... 500 ns 501 ... 4000 ns	1 ns 1 ns	±(3% of reading + 5 digits) ±3% of reading
Delay skew	0 ... 500 ns	1 ns	±10 digits
Characteristic Impedance	35 ... 180 Ω	1 Ω	±(10% of reading + 3 digits)
DC Resistance	0.0 ... 199.9 Ω	0.1 Ω	±(10% of reading + 5 digits)
<b>Attenuation</b>			
- Frequency	1 MHz ... 250 MHz	1 MHz	According to TIA/EIA 568-B.2
- Amplitude	0.0 ... 60.0 dB	0.1 dB	
<b>NEXT, Remote NEXT</b>			
- Frequency	1 MHz ... 350 MHz	0.15 MHz	According to TIA/EIA 568-B.2
- Amplitude	0.0 ... 90.0 dB	0.1 dB	
<b>PSNEXT, Remote PSNEXT</b>			
- Frequency	1 MHz ... 350 MHz	0.15 MHz	According to TIA/EIA 568-B.2
- Amplitude	0.0 ... 90.0 dB	0.1 dB	
<b>ELFEXT, Remote ELFEXT</b>			
- Frequency	1 MHz ... 350 MHz	0.15 MHz	According to TIA/EIA 568-B.2
- Amplitude	0.0 ... 90.0 dB	0.1 dB	
<b>PSELFEXT</b>			
- Frequency	1 MHz ... 350 MHz	0.15 MHz	According to TIA/EIA 568-B.2
- Amplitude	0.0 ... 70.0 dB	0.1 dB	
<b>Return Loss, Remote Return Loss</b>			
- Frequency	1 MHz ... 350 MHz	0.15 MHz	According to TIA/EIA 568-B.2
- Amplitude	0.0 ... 40.0 dB	0.1 dB	
<b>Time Domain Reflectometer (TDR)</b>		at NVP=0.69-c:	
- Distance / Pulse length	0 ... 10 (50, 100) m 0 ... 200 m 0 ... 400 m	1 ns, 0.1 m 2 ns, 0.2 m 4 ns, 0.4 m	±(3% of reading + 5 digits) ±5% of reading ±5% of reading
- Amplitude	in percents	1 %	
- Selectable propagation velocity rate	0.50-c ... 0.99-c		
<b>Time Domain Crosstalk</b>			
- Distance / Pulse length	0 ... 10 (50, 100) m 0 ... 200 m	1 ns, 0.1 m 20 ns, 0.2 m	±(3% of reading + 5 digits) ±5% of reading
- Amplitude	in percents	0.1 %	
<b>General</b>			
COM port	RS232 and USB		
Display	Graphic LCD, 320 x 240 dots, with backlight		
Power supply	6 x 1.2 rechargeable batteries, type C		
Dimensions	265 x 110 x 185 mm		
Weight	2.1 kg		

## Ordering information:

Standard set

Part No.: MI 2016 ST



- Instrument Multi LAN 350
- Remote unit Multi LAN 350
- Permanent Link adapter, 2 pcs
- Chanel Link adapter, 2 pcs
- Locators (#1 ... #4), 4 pcs
- Attenuation calibration module
- Power supply adapter, 2 pcs
- Headphones set, 2 pcs
- Carrying bag, 2 pcs
- PC SW LAN Link with USB and RS232 cables
- 12 x 1.5 V NiMH rechargeable batteries, type C
- Instruction manual
- Calibration certificate

Pro set

Part No.: MI 2016 PS



- Remote unit Multi LAN 350 is replaced by
- Instrument Multi LAN 350

## Optional accessories:

Photo	Order No.	Acc. description
	A 1006	Soft carrying bag
	A 1041	Headphones with microphone, 2 pcs
	A 1043	Locator set II (#5 to #16)
	A 1044	Locator set III (#17 to #28)
	A 1046	1.2 V NiMH battery, type C, 6 pcs
	A 1169	Fast charger for AA, C, D and 9 V block batteries



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Note! Photographs in this catalogue may slightly differ from the instruments at the time of delivery. Subject to technical change without notice.