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## Reliable XLR Pin 1 Cable Testing with MR-PRO

**NTI introduces a unique feature of the Minirator MR-PRO: The "Pin 1 Cable Tester" functionality. It detects the proper connection from the cable shield or 3rd conductor wire to the XLR connector pin 1. The Minirator impedance test function measures minor capacitive differences between the two wires and the shielding of an XLR audio cable, thus senses false pin 1 connections accurately.**

Audio cables are frequently soldered incorrectly to the XLR connector, e.g. the cable shield or 3rd conductor is unconnected at one end, or connected to pin 3 at both cable ends instead to the assigned pin 1. Cables with shields/wires connected to pin 3 (or pin 2) are commonly analyzed as "OK" by conventional cable testers basing on the typical 1:1 connection test, but actually cause unbalance and the audio quality worsens passing through such bad cables.

### How can an incorrectly connected shield be detected?

The NTI MR-PRO detects the correct connection from the cable shield to pin 1. The MR-PRO accurately analyzes a connected audio cable for all the individual impedances between the three connector pins 1, 2 and 3. A properly wired XLR cable is a nearly perfect balanced device. An audio cable with incorrect shield connections results in an unbalanced capacitive load at pin 2 and pin 3 in relation to pin 1, resulting in different impedance readings at pin 2 compared to pin 3. The Minirator precisely measures this capacitive difference of the connected audio cable, indicating an incorrect shielding connection on the MR-PRO display.

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### NTI at:

3. - 5. February 2009  
Integrated Systems ISE,  
Amsterdam, NL  
Booth #1F119

1.-4. April 2009  
prolight + sound, PLS  
Frankfurt, D  
Booth #8.H05

8. - 10. May 2009  
AES Convention  
Munich, D

17. - 19. June 2009  
Infocomm  
Orlando, Florida



## **1:1 Cable Test Function**

Additionally the basic 1:1 cable test function is part of this comprehensive signal generator. Based on the same impedance measurement function the MR-PRO reads any cable problems, such as “Pin 2 Open” or “2-3 Crossed”, accurately. Customers with permanently installed audio cables, such as in theatres, announcement systems or meeting rooms may trace any 1:1 connection problems easily with the cable test plug accessory.

The MR-PRO cable test function together with the optional accessory “Cable Test Plug” provides a comprehensive XLR cable test solution for cable manufacturing, service and on-site installations.

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## **About NTI**

NTI AG develops highly qualified and customized measurement solutions for the Pro-Audio and telecommunications industry. NTI’s main product lines are the Minstruments, the A-Series audio analyzers, the RAPID-TEST production line test systems as well as complete turnkey tests solutions based on PureSound – a unique defects analysis technology. The headquarters of NTI are in the Principality of Liechtenstein (Europe). Subsidiaries are NTI Americas Inc in Portland, NTI China in Suzhou and NTI Japan in Tokyo.

## **Information for Journalists:**

1. Hi-res product pictures are available for download at the NTI website - press area:  
<http://www.nti-audio.com/tabid/220/Default.aspx>
2. Evaluation units for journalists are available on request.  
Please contact us by mail: [support@nti-audio.com](mailto:support@nti-audio.com)