

# **CT-3**

**ADVANCED CABLE TESTER**  
V1.5 APRIL 2010



**SAFETY INSTRUCTIONS**

**CAUTION:** To reduce the risk of electrical shock, do not remove the cover or rear panel of this unit. No user serviceable parts inside. Please refer servicing to qualified personnel only.

**WARNING:** To reduce the risk of fire or electrical shock do not expose this appliance to rain or moisture.

**DETAILED SAFETY INSTRUCTIONS:**

All safety and operation instructions of this manual should be read and adhered to before operation.

**Retain Instructions:**

Please retain all safety and operating instructions for future reference.

**Follow instructions:**

All operation and user instructions should be followed.

**Water, liquid and Moisture:**

The appliance should not be used near water, rain or other liquids. Make sure that no liquid can leak, spill or otherwise seep into the appliance.

**Ventilation:**

Please place the appliance so no obstacles interfere or impede the flow of air through the ventilation openings.

**Heat:**

The appliance should be situated away from other heat sources such as heaters, radiators, ovens, or other appliances that produce heat.

**Power Source:**

Make sure your appliance is set to the correct voltage for the country in which it will be used.

**Grounding and Polarization:**

Precautions should be taken so that the grounding or polarization means of an appliance is not defeated.

**Power-Cord Protection:**

Power supply cords should be routed so that they are not likely to be walked on, pinched, damaged, worn, or rubbed by any other device or obstacle.

**Cleaning:**

The appliance should be cleaned only with a light soft cloth. Do not use any damaging or corrosive products on the unit.

**Periods of inactivity:**

The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

**Damage Requiring Service:**

The appliance should be serviced by qualified service personnel when:

- The power supply cord or the plug has been damaged; or
- Objects have fallen, or liquid has been spilled into the appliance; or
- The appliance has been exposed to rain; or
- The appliance does not appear to operate normally or exhibits a marked change in performance; or
- The appliance has been dropped, or the enclosure damaged.

**Servicing:**

The user should not attempt to service the appliance beyond that is described in the Operating Instructions.

**All other servicing should be referred to qualified service personnel.**

## FOREWORD

Dear Customer,

Thank you very much for expressing your confidence in SM ProAudio products by purchasing this unit. The CT-3 has been designed to be used as a standard tool for home/pro studios, P.A. rental companies, Schools and in many other situations where audio products would be used. With much experience in the audio industry over a long period of time, and along with valuable suggestions from our customers, our engineers have developed a product we know you will be satisfied with. We guarantee you uncompromising quality as well as excellent technical and audio properties at an extremely affordable price.

Regards,  
SM ProAudio

### INSTALLATION

Your SM ProAudio CT-3 was carefully packed in the factory and the packaging was designed to protect the unit from rough handling. Nevertheless, we recommend that you carefully examine the packaging and its contents for any signs of physical damage, which may have occurred in transit.

+ If the unit is damaged, please do not return it to us, but notify your dealer and the shipping company immediately, otherwise claims for damage or replacement may not be granted. Shipping claims must be made by the consignee.

### PLACEMENT

The SM ProAudio CT-3 utilizes an electronic circuit. Be sure that there is enough air space around the unit for cooling. As to avoid overheating, please do not place the units on high temperature devices such as power amplifiers or near other units which may have high frequency transmittance such as wireless devices.

### MAINS VOLTAGE

The CT-3 does not use any mains voltages, it only uses 9V DC batteries one per side of the CT-3. Please be aware that if batteries are left unused in the unit they make leak after a while and cause damage to the unit, make sure that if you are not using the CT-3 for a long period you disconnect or remove the battery.

## SM CT-3 MAIN FEATURES

- 8-position Automatic indication cable tester
- Allows connection between different format connectors with ease
- 'Banana' connector continuity tester with beeper and LED indicator
- Super rugged construction for durability and long life
- 2 x DMX (5-pin)
- 2 x BNC
- 2 x RCA Phono
- 2 x XLR
- 2 x MIDI (5-pin DIN)
- 2 x Speakon
- 2 x Banana
- 2 x 1/4" (6.5mm) TRS/TS
- 2 x Rj45
- 2 x RJ11

### 1. INTRODUCTION

How can you test a long Multicore or a cable which is inside a wall?

How can you test a cable which you cannot access both ends of to connect, with a normal cable tester?

For years this solution has been available for normal CAT5 and network cables. The CT3 brings this new technology to the audio world and now you are able to test cables which are already pre-installed or at different parts of a building. The CT3 has a vast number of audio connectors on it as well as RJ45 (CAT5 and CAT6) RJ11 (Telephone).

### 2. THE DESIGN CONCEPT

#### 2.1 High quality components and design

The philosophy behind SM ProAudio products guarantees a no-compromise circuit design and employs the best choice of components.

#### 2.2 Inputs and outputs

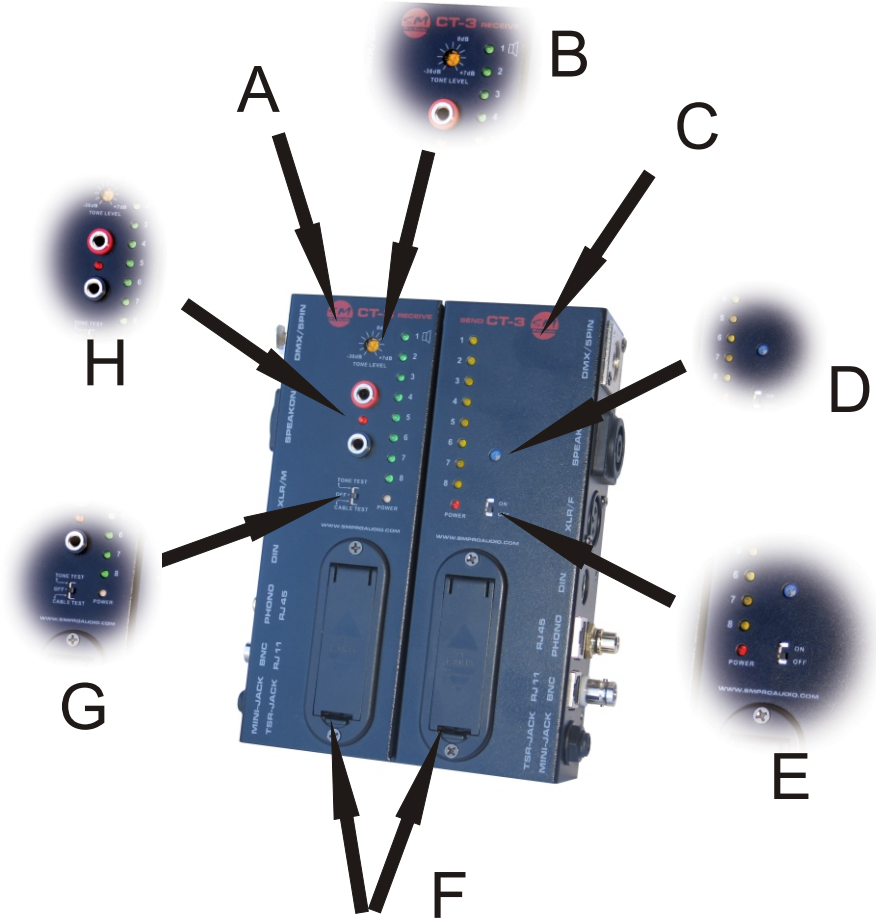
All inputs and outputs are secured firmly to the exterior chassis housing. This ensures robust quality and confidence in performance under all conditions.

### IMPORTANT NOTE:

**As the CT3 TRS (1/4") inputs are STEREO if you are using a TS jack (MONO) please only insert it into the CT3 until the first lock for the TIP of the JACK is engaged. If you insert a TS connector all the way, your will see the LED's on the receive unit DIM as the Ring and Sleeve are shorted buy the Jack being used.**

## SM CT3 CONNECTIONS

# SM PRO AUDIO CT-3



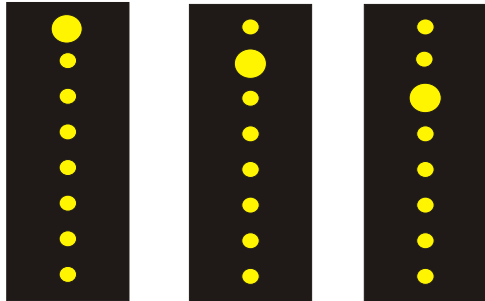
- A. Receiver side
- B. Loudness of the BEEP sound when testing cables and showing channel 1 connection
- C. Sender side (voltage goes OUT from here to a cable for testing)
- D. The speed at which the testing of cables occurs
- E. ON-OFF switch for the sender
- F. Battery compartments for 2 x 9V DC batteries
- G. Tone test - OFF - Cable Test switch
- H. Input points and LED indication for the Tone test and continuity tester.

## USING THE CT-3

### Example 1.

**A.** Connect an XLR cable from one side of the Ct3 (the Sender) to the other side (the receiver).

**B.** Switch ON the Sender (E), if a battery is installed you should see the first yellow LED's lighting in sequence and then the other 5 LED's not being lit at all. Note if no cable is connected to the SENDER the Yellow LED's would not light up.¶



**C.** Switch ON the Receiver (G), if a battery is installed you will see the 3 GREEN LED's lighting in the same sequence as the YELLOW LED's in the Sender side, you will also hear a BEEP sound when PIN1 is detected. (As long as the cable is not faulty). Please note, the Cable MUST have at least PIN1 connected for the Ct3 to operate properly. You will immediately know that PIN1 is faulty if no sound or lights are working on the Ct3 when you are testing a cable.

In this way you are now able to split the Ct3 in half (Sender and receiver) and still see if the cable is working properly by only looking at one side of the tester (the receiver side).

The order in which PINS are shown in the receiver side (the GREEN LED's) is the order in which the PINS (or wires) are being tested and connected).

If for example the XLR cable is wired 1 3 2 instead of 1 2 3 you would first HEAR the BEEP when PIN1 is connected and then you would see PIN 3 and then PIN 2. You would then know that the cable is not wired properly.

If for example the XLR cable is faulty with PIN 2 not connected. You would hear the BEEP for PIN 1 (and see the GREEN PIN 1 LED lit) you would then not see LED 2 light up and then LED 3 would light up.

More information is available on the website.  
[WWW.SMPROAUDIO.COM](http://WWW.SMPROAUDIO.COM)

## **1 WARRANTY CARD**

To be protected by this warranty, the buyer must complete and return the enclosed warranty card (signed/stamped by retail dealer) within 14 days of the date of purchase to SM Pro Audio (see address below 3). Failure to return the card in due time (date as per postmark) will void any extended warranty claims.

## **2 WARRANTY**

1. SM ProAudio warrants the mechanical and electronic components of this product to be free of defects in material and workmanship for a period of one (3) years from the original date of purchase, in accordance with the warranty regulations described below. If any defects occur within the specified warranty period that are not caused by normal wear or inappropriate use, SM Pro Audio shall, at its sole discretion, either repair or replace the product.
2. If the warranty claim proves to be justified, the product will be returned freight prepaid by SM Pro Audio within Australia. Outside of Australia, the product will be returned at the buyer's expense.
3. Warranty claims other than those indicated above are expressly excluded.

## **3 RETURN AUTHORIZATION NUMBER**

1. To obtain warranty service, the buyer must call SM Pro Audio during normal business hours BEFORE returning the product (Tel.: +61 3 9555 8081). All inquiries must be accompanied by a description of the problem. SM ProAudio will then issue a return authorization number or by email to [service@smproaudio.com](mailto:service@smproaudio.com)
2. The product must be returned in its original shipping carton, together with the return authorization number, to the following address:

SM Pro Audio  
Service Department  
W25, 26-28 Roberna St  
Moorabbin  
Melbourne, Victoria  
Australia 3189

#### 4 WARRANTY REGULATIONS

1. Warranty services will be furnished only if the product is accompanied by an original retail dealer's invoice. Any product deemed eligible for repair or replacement by SM Pro Audio under the terms of this warranty will be repaired or replaced within 30 days of receipt of the product at SM Pro Audio.

2. If the product needs to be modified or adapted in order to comply with applicable technical or safety standards on a national or local level, in any country which is not the country for which the product was originally developed and manufactured, this modification/adaptation shall not be considered a defect in materials or workmanship.

The warranty does not cover any such modification/adaptation, irrespective of whether it was carried out properly or not. Under the terms of this warranty, SM Pro Audio shall not be held responsible for any cost resulting from such a modification/adaptation.

3. Free inspections, maintenance/repair work and replacement of parts are expressly excluded from this warranty, in particular if caused by inappropriate use. Likewise, the warranty does not cover defects of expendable parts caused by normal wear of the product. Expendable parts are typically pots, potentiometers, switches and similar components.

4. Damages/defects caused by the following conditions are not covered by this warranty:- Misuse, neglect or failure to operate the unit in compliance with the instructions given in the user or service manuals.

- Connection or operation of the unit in any way that does not comply with the technical or safety regulations applicable in the country where the product is used.

- Damages/defects that are caused by any other condition beyond the control of SM Pro Audio.

5. Any repair carried out by unauthorized personnel will void the warranty.

6. Products which do not meet the terms of this warranty will be repaired exclusively at the buyer's expense. SM Pro Audio will inform the buyer of any such circumstance. If the buyer fails to submit a written repair order within 4 weeks after notification, SM Pro Audio will return the unit C.O.D. with a separate invoice for freight and packing. Such cost will also be invoiced separately when the buyer has sent in a written repair order.

#### 5 CLAIM FOR DAMAGES

Failure of SM Pro Audio to provide proper warranty service shall not entitle the buyer to claim (consequential) damages. In no event shall the liability of SM Pro Audio exceed the invoiced value of the product.

#### 6 OTHER WARRANTY RIGHTS

This warranty does not exclude or limit the buyer's statutory rights provided by national law, in particular, any such rights against the seller that arise from a legally effective purchase contract.

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SM Pro Audio Service Department

W25, 26-28 Roberna St Moorabbin Melbourne, Victoria Australia 3189