

# Digital Recorder Accessories



## **TSA-3LM** The easiest way to monitor conversations on individual telephones.

The TSA-3LM is used to provide a simple method of connecting supervisory monitoring equipment and Voice Logging Recorders to telephone handset or headset audio.

It can be used with most telephone styles that have a standard modular handset or headset jack. Simply connect one end of the cable in series with the telephone handset or headset cord and plug the other end of it into your recorder. The TSA-3LM has a 25' output cable that can be extended with the T25-EXT.



**TSA-SLM** Telephone supervisory adapter with switch. The TSA-SLM provides all of the functions and features of the TSA-3LM with the addition of an ON/OFF switch that is used to disconnect the telephone audio from your recorder when you do not want your conversation recorded. The TSA-SLM has a 25' output cable that can be extended with the T25-EXT.



## **TSA-2A1** Telephone supervisory adapter with active audio mixer.

Used to provide a method of connecting audio recorders and supervisory monitoring equipment to the handset (or headset) circuit of a phone that does not have side-tone (no mouthpiece audio is present on the earpiece of the phone). It can be used with telephone styles that have a standard modular handset or headset jack (4P4C). If the phone you wish to monitor has side-tone, as with most business phones, you should use the less expensive TSA-3LM adapter (see TSA-3LM above).

The TSA-2A1 has two screwdriver adjustable controls that provide independently adjustable levels for the microphone audio (up to 30db gain) and earpiece audio (up to 10db gain). The microphone and earpiece audio are mixed together and combined on the audio output of the TSA-2A1.

Each TSA-2A1 includes an AC power adapter and 18' modular output cable.



## **RSA-M3** Adapter for mixing two-way radio receive and transmit audio.

The RSA-M3 is used to provide an inexpensive method of connecting voice logging recorders to two-way radio base stations and local control points. Input levels are compatible with Motorola Radius series radios or similar. Use the RSA-U5 adapter for radios with weaker audio levels or where microphone audio is present when the radio is not transmitting.

The RSA-M3 combines receive and transmit audio at levels matched to the line input of voice logging recorders. It also provides transformer isolation and RF bypass. Use it to simplify installation when a direct connection to the radio's receive and transmit audio will be made by a radio service technician. The RSA adapters are not needed when connecting to remote controlled radios (tone, DC, or local).



**RSA-2A1** Line level audio mixer: two inputs — one output. Used in applications where audio from two isolated line level sources, such as remote controlled 2-way radio circuits, must be combined into a single audio output. The mixed audio can

be fed to the input of a voice logging recorder so that both audio sources will be recorded on a single channel. It provides balanced line-input, transformer isolation, capacitive coupling, and RF bypass. High impedance input circuits permit connection to balanced and unbalanced audio sources with minimal loading. Each channel has an independent audio level adjustment. Includes AC power adapter.



**RSA-M4** Two-way radio adapter with a relay that switches between receive and transmit audio. Similar to RSA-M3, the RSA-M4 has a relay that connects to 12vDC transmitter power and an audio transformer to boost the volume of transmitter audio that is fed to the recorder. The relay is used to switch its audio output jack from receive audio to transmit audio only when the radio is transmitting.



**RSA-U5** Two-way radio adapter with active amplifiers and optically isolated PTT sensing. Similar to RSA-M4, the RSA-U5 has screwdriver adjustable amplifiers to boost weak receiver and transmitter audio levels and a low power optically sensing circuit to mute microphone audio when the radio is not transmitting. Includes AC power adapter.

Receive Audio Input: >1M ohm DC, >10K ohm AC, 0.1 to 1.5 vAC.

Transmit Audio Input: >1M ohm DC, >10K ohm AC, 0.02 to 1 vAC.

Audio Output: RX >10db gain, TX >30db gain, 600 ohm, RJ-11.

Transmitter activity sensing: Between 5 and 16vDC, 1 to 4 ma.

Power: 5vDc, 10 ma, AC power adapter.

**NOTE: Connections to two-way radios that need to be made inside of the radio, should only be made by a qualified radio service technician.**

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(continued)

**MOST INSTALLATIONS** connect to phone lines and two-way radio audio using standard phone line cables. These cables are available from Omnicron Electronics and local suppliers in various lengths.

MTJ-S2 splitters are used for separating two line RJ-14 jacks and cables to individual RJ-11 phone line jacks.

TSA-3LM adapters are a very popular and inexpensive adapter for recording from most analog and digital phone sets.

Many of the items listed on these pages are used in a small percentage of installations that require more specialized cables, adapters, or accessories.

Check with your supplier to determine what is best for you.



**TRR-B5U** Desktop/portable housing for rack mount *Total Recall* Recorders. Table top housing that can be used with the rack mount recorders if they are not installed into a 19" equipment rack. It accommodates the 8.75" x 19" front panel of a TRR recorder and provides 3.75" extra depth to protect the cables exiting the back of the recorder. Sixteen gauge steel with textured black powder coat finish. 11" H x 21" W x 13" D, 16 lb.

**TSA-MRS** Telephone handset supervisory adapter — with proximity switch audio muting. The TSA-MRS has a small proximity sensing magnetic reed switch that is used to mute handset audio when a small magnet (mounts on the handset of your phone) is within 1/2" of the sensing switch that mounts on your phone. Used in rare cases where handset audio is not muted when your phone is hung-up and the standard TSA-3LM cannot be used satisfactorily (see Omnicron web for more details and photo).



**Phone Line Cables** are used to connect the modular input jacks on the recorders to various input sources. They have a 4 conductor 6 position RJ-11 jack on each end. Available in packs of four cables — 6' (# **TC4-6**), 12' (# **TC4-12**), 18' (# **TC4-18**), and 24' (# **TC4-24**).



**T-18** 18' Telephone cable with RJ-11 plugs on both ends with T-Adapter. This multi-purpose cable assembly can be used to connect between two RJ-11 or RJ-14 phone jacks. It is 18' long and comes with a T adapter. The T-adapter is used when you do not have an extra jack for the cable connection. It will convert a single phone jack into two parallel jacks.

## T25-EXT

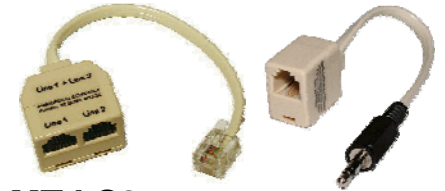
**Twenty-five foot phone line extension cable.** It has an RJ-11 plug on one end and an RJ-11 jack on the other end. It is used to extend a phone jack or connection.



**TSB-6** Telephone line switch box. Connects in series with the phone cable feeding your recorder. With its ON/OFF switch in the OFF position, the output RJ-11 jack is disconnected from the input RJ-11 jack. Includes a six foot phone cable.

**TR-FIL** Replacement Fan Filters for *Total Recall* recorders (package of three).

**TR-HDD** Spare Hard Drive for *Total Recall* recorders. Includes pre-loaded software. Specify recorder model and serial number when ordering.



**MTJ-S2** (above left) Converts a 2-line RJ-14 jack into two separate RJ-11 single line phone jacks. This adapter cable splits a 2-line RJ-14 circuit/jack into two RJ-11 jacks (Line-1 and Line-2). Typically used with the RJ-14 input jacks on some *Total Recall* and *TeleCorder* recorders from Omnicron.

## MOD-SC

(above right) Converts modular phone cable to mini-plug. The MOD-SC is used when you have a cable with a standard RJ-11 single-line telephone type plug that you need to connect to equipment with a 3.5mm mini-plug jack. It has an RJ-11 jack on one end and a 3.5mm mini-plug on the other end.



## RJ14-S

Two line cable assembly. The RJ14-S is used to separate two line RJ-14 phone jacks (L1+L2) into individual RJ-11 jacks or plugs. It can also be used to combine two phone lines from two separate RJ-11 jacks or cables onto a single RJ-14 plug.



## TSA-CHH

Similar to TSA-3LM. Used to provide an inexpensive method of connecting supervisory monitoring equipment (such as our *Total Recall*) to a telephone that uses built-in switching between handset and headset jacks. It combines the audio to a single 25' output so that you will be able to monitor or record conversations from both the handset and headset.

Contact your Omnicron representative for assistance in selecting the proper cables or adapters for your application. Voice Loggers have been our specialty since 1975.



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