

# Analog Desktop / Rack Mount Call Recorder

19" Rack Mount





## **User Manual**

Version 4.60 R4 May 2008



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#### 1 **Compliance Statement**

## **European Model**

The equipment has been approved in accordance with Council Decision 98/482/EC for pan-European single terminal connection to the public switched telephone network (PSTN). However, due to differences between the individual PSTNs provided in different countries, the approval does not, of itself, give an unconditional assurance of successful operation on every PSTN network termination point. In the event of problems, you should contact your equipment supplier in the first instance. This device is designed to work on any network. This device is not dependent on physical and software switch settings. If this device is to be used outside of your area or different network, contact your vendor.

This device complies with Class A of EN55022: 1995 incl. Amendments 1 & 2.

#### Warning

This is a Class A product. In a domestic environment this product may cause radio interference, in which case the user may be required to take adequate measures.

## **New Zealand Model**

This device complies with Class A of AS/NZS3548:1995, incl. Amendments 1 & 2.

#### Warning

This is a Class A product. In a domestic environment this product may cause radio interference, in which case the user may be required to take adequate measures.

8.1.8 Call logging (automatic set-up)

- (b) "The call log incorporated in this equipment does not record all answered calls. The call log, therefore, may not agree with the Telecom account which may include calls not shown on the log." 8.5 Recording functions.
- (c) "All persons using this device for recording telephone conversations shall comply with New Zealand law. This requires that at least one party to the conversation is to be aware that it is being recorded. In addition, the Principles enumerated in the Privacy Act 1993 shall be complied with in respect to the nature of the personal information collected, the purpose for its collection, how it is used and what is disclosed to any other party."

## **USA Model**

## FCC Rules, Part 15

Total Recall has been tested and complies with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, can cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at the user's expense.

CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY COMSEC.TR Pty Ltd COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

## FCC Part 68 Registration (over)

## 1. FCC Part 68 Registration

*Total Recall* complies with FCC Rules, Part 68. On this equipment is a label that contains, among other information, the FCC Part 68 registration number.

## 2. <u>REN</u>

The ringer equivalence number (REN) is used to determine the quality of devices, which may be connected to the telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all, areas the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company.

NOTE: RENs are associated with loop-start and ground-start ports. It is not used for E&M and digital ports. The REN assigned to *Total Recall* is 1.5B. If requested, this information must be given to the telephone company.

## 3. <u>Service</u>

In the event of equipment malfunction, all repairs should be performed by *COMSEC.TR Pty Ltd* or an authorized agent. It is the responsibility of users requiring service to report the need for service to *COMSEC.TR Pty Ltd* or to one of our authorised agents. Service can be facilitated through our Factory office at:

COMSEC.TR Pty Ltd Unit 5, 7 Millennium Court Silverwater, NSW 2128 Australia email: totalrecall@totalrecallvr.com

The telephone company can ask you to disconnect the equipment from the network until the problem is corrected or until you are sure that the equipment is not malfunctioning.

## 4. **Facility Interface Information**

In order to connect registered terminal equipment to the telephone company lines, the terminal equipment must utilize an FCC registered jack. Standardised jacks are used for this equipment. The following table contains Facility Interface Code (FIC), Ringer Equivalence Number (REN), Service Order Code (SOC) and network jack information for the equipment.

Port Identifier	FIC	REN	Network Jack
Line 1 to Line 32	Not Applicable	1.5B	RJ11C

The *Total Recall* interface connects to the Public Switched Telephone Network through a FCC registered NCTE that specifies the type of network jack to be used.

## 5. **Disruption to the Network**

If the *Total Recall* disrupts the telephone network, the telephone company can discontinue your service temporarily. If possible, the telephone company will notify you in advance. If advance notice is not practical, they will notify you as soon as possible. You are also informed of your right to file a complaint with the FCC.

## 6. **Telephone Company Facility Changes**

The telephone company can make changes in its facilities, equipment, operations, or procedures that can affect the operation of your equipment. If they do, you should be notified in advance so you have an opportunity to maintain uninterrupted telephone service.

## 7. Electrical Safety Advisory

While *Total Recall* is fully compliant with FCC rules and regulations, it is recommended that an alternating current (AC) surge arrestor of the form and capability suitable for the model purchased be installed in the AC outlet to which the *COMSEC.TR Pty Ltd* products are connected. Consult with your distributor as to the surge protector requirements for your equipment.

*Notes: a)* If a ruling is required on the legality of recording in your country, please seek legal advice. *b)* This product must not be used for illegal or unauthorised recording purposes.

## 2 Safety Information

#### WARNING!

#### Potential Shock Hazard

Always follow basic safety precautions when using this product to reduce the risk of injury from fire or electrical shock.

- a) Read and understand all instructions in the user manual.
- b) Observe all warnings and instructions marked on the product.
- c) Use only a grounded electrical outlet when connecting *Total Recall* to a power source. If you are unsure the outlet is grounded have a qualified electrician check this.
- d) Do not touch the contacts on the ends of any of the cables used with *Total Recall*. If any cable becomes damaged have it repaired immediately.
- e) Shut down and unplug *Total Recall* from power outlets and telephone jacks prior to cleaning.
- f) Do not open *Total Recall*. There are no user serviceable parts inside *Total Recall*.
- g) Refer all servicing to qualified personnel.

## 3 Introduction

**Total Recall** is a compact, cost-effective and self-contained digital Voice Logger / Recorder that records and provides secure storage for up to 60,000 hours of calls. Call information is presented on the colour TFT Liquid Crystal Display (LCD). With simple keystrokes and three easy to navigate menus Total Recall is easy to configure and operate. The user configures and operates **Total Recall** to search, playback and archive calls. Using LAN or Dialup you will have remote access to **Total Recall** over your network or phone line using **Remote Manager. Record on Demand** may be optionally installed to give users limited control over what is recorded on their line.

Available as a 4, 8, 12 or 16 channel Desktop unit or 4, 8, 12 16, 20, 24, 28 or 32 channel 19" Rack Mount unit, *Total Recall* will record the telephone numbers of incoming\* and outgoing calls\*\*, and store this information in a database, together with a time & date stamp, the duration of the call and reference to the specific channel number. All these "fields" can be used to search and retrieve calls from the database.

Once a call has been located and retrieved from the *Total Recall* database, the call can be replayed via an internal or external speaker, or, for privacy, via a headphone port.

\*Note: Functions only if Caller Line Identification (CLI) is available on the line at the connection point.

\*\*Note: Functions only if DTMF tones are present on the line at connection point.

This User Manual covers operational aspects of your *Total Recall* Voice Logger / Recorder operating as a standalone unit or as a networked device. Throughout this manual actual screen displays are used to illustrate the operation being described. Section 4 contains a quick Start-up Guide for those users who would prefer to start in the minimum time. We recommend that you keep this manual at a location near the unit for quick reference. Your *Total Recall* supplier is available to assist you with all other technical and installation matters.

## **3.1 Total Recall Models**

- TRL-04 : 4 channel Total Recall Desktop
- TRL-08 : 8 channel Total Recall Desktop
- TRL-12 : 12 channel Total Recall Desktop
- TRL-16 : 16 channel Total Recall Desktop
- TRR-04 : 4 channel Total Recall Rack Mount
- TRR-08 : 8 channel Total Recall Rack Mount
- TRR-12 : 12 channel Total Recall Rack Mount
- TRR-16 : 16 channel Total Recall Rack Mount
- TRR-20 : 20 channel Total Recall Rack Mount
- TRR-24 : 24 channel Total Recall Rack Mount
- TRR-28 : 28 channel Total Recall Rack Mount
- TRR-32 : 32 channel Total Recall Rack Mount

All *Total Recall* models are supplied with *Remote Manager*, the client software for *Total Recall*, and *Record on Demand*, a limited control program designed for non-administrative users. Both are Windows based 95/98/NT/2K/ME/XP programs.

**Remote Manager** is used to search and replay calls from either an archive DVD or CD if there is no requirement to use the LAN or Dialup functionality or enables full remote access to **Total Recall** via the LAN or Dialup interface. Calls can be selected and transmitted via e-mail for replay on a multimedia PC at a remote location.

## **3.2 Total Recall Options**

#### **3.2.1** Channel Upgrades

Each *Total Recall* Desktop Unit can accommodate up to 2 DSP (Digital Signal Processor) cards and the Rack Mount Unit up to 4 DSP cards. Both units can be upgraded with 4 channel and or 8 channel cards. See your supplier for further details. Ordering details:

- TR-U4 4-channel upgrade card
- TR-U8 8-channel upgrade card

#### 3.2.2 Dual Hot Swap Power Supply

Total Recall Rack Mount models come supplied with a standard ATX PC type power supply. A dual hot swap power supply is available for the rack mount models only. Please contact your Total Recall supplier for details.

#### **3.2.3** Archiving Options

*Total Recall* is supplied with a DVD Drive as standard. Use <u>DVD+RW</u>, <u>CD-R</u> or <u>CD-RW</u> type media only.

## 3.3 Unpacking

*Total Recall* is supplied with the following items:

- *Total Recall* Voice Logger / Recorder.
- *Remote Manager* CD (this contains PC client software)
- **Record on Demand** CD
- Power cable.
- A blank CD media.
- This User Manual.
- Line connection diagram for both 4-channel & 8- channel DSP cards.
- A Yellow crossover cable to connect to a PC.
- 4 x 19" Rack mounting nuts & screws. (*Rack models only*)
- On / Off key. (*Rack models only*)

<u>Note</u> that there are no telephone line cables supplied with **Total Recall**. This is because it is not known where the unit will be located and hence not known how long the line cables should be. If cables have to be run, and if connection is required to the MDF or distribution frame, it is advisable to request a certified telecom engineer to install the telephone cabling required for the recorder.

<u>Note</u>: **DO NOT** load the **Remote Manager** CD into the **Total Recall** DVD drive. The **Remote Manager** CD is only intended for a Windows PC.

<u>Important Note</u>: To ensure no loss of power or interruption to recordings, it is strongly recommended that Total Recall be connected to a UPS power system (Maximum power consumption for 16 Channel TRL-16 is 50Watts). Total Recall utilises a database with potentially open and active files. Power disruption with an unclean shut down may cause damage to these files and may require a database rebuild. This rebuild will occur automatically when power returns.

## 3.4 Getting Started

Having completed the installation of *Total Recall* by following the instructions in Section 6, you may commence using *Total Recall* immediately by following the simple instructions in the Quick Start-up Guide, Section 4.

For a more complete understanding of the comprehensive features of *Total Recall*, we recommend you read through the remainder of this manual.

## **3.5 Total Recall Features**



Total Recall - Voice Logger/Recorder

Total Recall Voice Logger/Recorder has the following features:

- It has been specially designed to record telephone conversations, or any analogue audio signal.
- It records digitally (records direct to a hard disk in compressed file format).
- It starts and stops recording by VOX or Off-Hook activation.
- It archives the recordings to DVD or CD to provide a permanent backup record.
- It has a high compression factor, resulting in a large storage capacity.
- It has a facility to live monitor calls either locally or remotely.
- All channels can be configured and managed selectively or as a group.
- It is compact, self-contained easy to install and operate.
- LAN & Dialup connectivity is built in.

## 4 Quick Start-up Guide

- Check the contents of the *Total Recall* package (refer Section 3.3-Unpacking). Ensure your recording connections are in place.
- Connect the *Total Recall* recorder to the input line(s), and connect the power cord.
- Turn on the power with the switch at the rear panel.
  - *Note 1:* The internal power supply of the Desktop & Rack Mount Unit is auto sensing (90VAC 260VAC, 50Hz 75Hz).

*Note 2:* The Dual Hot Swap power supply of the Rack Mount Unit is auto sensing (100-240 VAC, 50Hz – 60Hz)

- Wait approximately 3 minutes for *Total Recall* to complete its start-up.
- Default Passwords are 0000.
- Go to the *Options Menu* by pressing the <MENU> key twice.
- Select General Settings by pressing <SELECT>.
- Set Language, Time, Date & Time Zone (call database must be empty of call records to change Time Zone), and Password (if you wish to change the default password) by using the <UP> <DOWN> arrow keys and <SELECT> to enter the Menu of choice. Press the <OK> or <Cancel> key to return to the *General Settings Menu*.
- Select *Line Settings*.
- Set desired "Line" Trigger, "Mon" (Monitor) and "Beep" settings by pressing the <DOWN> arrow key to highlight Line 1 and then pressing <SELECT>.

- Select *Apply* to confirm.
- Press the <OK> or <Cancel> key to return to the Options Menu.
- Select *Network Settings* and then set the unique Network Address and Subnet Mask. Press <0K>
- Use one of the phone lines connected to the recorder and make a test call.
- Check that the call appears on the Logging Menu, showing "C" in the status column.
- When finished, enter the password if required, position the cursor over the call and press the <SELECT> button to replay the call. Adjust the speaker volume using the thumb wheel on the front panel.

## 5 Getting to know Total Recall

**Total Recall** is very simple to operate, and has a minimum number of ports and key controls. Everything that is needed to operate **Total Recall** is included with the unit. It is *not necessary* to attach a PC/monitor as a management console for the recorder.







Front View, showing main control/connection points on 19" Rack Mount Unit

## 5.1 Total Recall *Front Panel*

## 5.1.1 Headphone Jack

Standard 3.5mm audio jack for connection of headphones or external speaker, volume controlled.

#### 5.1.2 Line Output Jack

Standard 3.5mm audio jack for connection to a tape recorder or the line input of a PC. This output is not volume controlled.

#### 5.1.3 Volume Control

Thumb wheel to adjust internal speaker volume.

## 5.1.4 DVD Writer

Standard front panel controls for a Read/Write DVD drive.

#### 5.1.5 Speaker Grill

Left-hand side of case, viewed from the front. *Desktop Unit*. Top Left of front panel. *19" Rack Mount Unit*.

#### 5.1.6 Cooling Fan Vent

Front underside of case. *Desktop Unit*. Top Left Centre of front panel. 19" Rack Mount Unit.

#### 5.1.7 Front Panel On/Off Switch (*Rack Model Only*)

The Key Switch is located on the left side of the front panel of the Rack Mount Model only. This is used to restart the unit after a Software Upgrade. When the unit is mounted in a 19" rack the On Off Switch that is located at the rear of the unit on the Power Supply may not be accessible.

*Note:* It is recommended that the On/Off Switch Key is not left in the switch to prevent accidental powering off the unit.

## 5.2 Recorder Rear Panel



Rear View of Desktop Unit



Rear View of 19"Rack Mount Unit

## 5.2.1 Remote Connection Ports

One port is for network connection and the other port is not used. These sockets are standard RJ45 sockets (8P8C).

The Modem (RS232) port is a standard male DB9 socket.

#### 5.2.2 Line Interface Connectors

*Total Recall* has 4, 8, 12 or 16 channels for the Desktop Unit and 4, 8, 12, 16, 20, 24, 28 or 32 channels for the Rack Mount Unit. The connectors for the telephone line interface are standard RJ11C/RJ12/RJ14. (6P4C or 6P6C plug) See Section 6.2.

#### 5.2.3 Power Cable Socket

IEC 90V - 260VAC power cable socket.

## 5.2.4 On/Off Switch

Switches Total Recall On or Off.

## 5.2.5 Fuse (Desktop Model only)

240VAC 1.0 > 1.25 amp anti-surge fuse.

## 5.2.6 Power Supply Desktop

Total Recall Desktop Unit comes with an auto sensing power supply 90VAC > 260VAC, 50Hz > 75Hz 50 watts maximum.

#### 5.2.7 Power Supply Rack Mount

Total Recall 19"Rack Mount is available with 2 power supply options.

1: Standard PC power supply auto sensing 90VAC to 260VAC, 50Hz > 60Hz 250 watts.



2: **Dual Hot Swap** power supply auto-sensing 100-240 VAC, 50Hz > 60Hz, 400 watts total.



To remove a hot-swap power supply module, simultaneously push the two black tabs inwards and pull the flip-up handle. A power supply module can be removed while the unit is powered up and running, assuming the other module is operational. Removing a power supply module will cause an alarm to sound until it is replaced.

To replace a hot-swap power supply module, remove the faulty module according to the above instructions, and slide a new module into the vacant opening, pushing firmly until the module locks into place.

## 5.3 Control Panel

## 5.3.1 LCD Display

The colour TFT LCD displays the various screen menus. After 5 minutes of keypad inactivity the LCD backlight will automatically turn off to extend the life of the backlight, however the recorder will continue to function normally. Pressing any key will restore the LCD backlight on.

#### 5.3.2 MENU Key

The <MENU> key is used to navigate between the three main menus, *Logging, Search*, and *Options*. When <MENU> is pressed with the cursor at the top of one of the three main menus, the cursor moves to the top of the next main menu. The system will "beep" each time the <MENU> key is pressed.

When *<*MENU*>* is pressed and the cursor is in the body of a main menu the cursor will go straight to either the *OK* or *Cancel* button saving keystrokes.

#### 5.3.3 SELECT Key

Use the <SELECT> key to start an operation associated with a highlighted button or item, and to confirm a request.

#### 5.3.4 UP and DOWN Scroll Keys

The  $\langle UP \rangle \langle DOWN \rangle$  arrow keys are used to navigate within a menu. With each  $\langle UP \rangle$  or  $\langle DOWN \rangle$  key press, the cursor highlights a different button or item within the menu. As you press the  $\langle UP \rangle \langle DOWN \rangle$  arrow keys, the system will "beep".

Use the <DOWN> key to highlight items across the screen from left to right as well as down. Use the <UP> arrow key to move in the reverse direction.

#### 5.3.5 Power & Hard Drive Activity LEDs

GREEN is the "Power On" indicator. RED shows activity of the Hard Disk Drive (HDD).

After 5 minutes of keypad inactivity the LCD backlight will automatically turn off but the recorder will continue to function normally. When in this state the green LED will flash continuously every 2 seconds. Pressing any key will illuminate the LCD backlight and the Power LED will stop flashing.

#### 5.3.6 Numeric Keypad

Standard keypad, including 0-9, \* and #.

#### 5.3.7 Playback Control Keys

During the playing of a call, the "Control Keys" can be used to navigate through the call. The "Control Keys" operate in the same way as the keys on a CD or tape player. They can be used to Stop, Play, Fast Forward and Fast Rewind through a call. Pressing the "Play" key during playback will cause the playback to Pause. Pressing the "Play" key again will continue the call.

Pressing the "Stop" key (Playback "Control Keys") whilst not playing a call locks the User Interface (the padlock icon on the LCD 'closes') when in the *Options, Logging* and *Search* Menus. This negates the normal 120-second timeout required for the User Interface to lock.

## 6 Installing Total Recall

## 6.1 Signal Sources

*Total Recall* requires 2-wire analogue inputs. A digital line signal will first need to be converted to analogue before being recorded.

*Total Recall* can be installed to record from any one of six possible signal sources:

- An analogue trunk (exchange) line.
- An analogue extension line.
- A telephone handset, either analogue or digital (via handset splitter / logger patch).
- A digital extension line, using D/A converters.
- A digital trunk line, using D/A converters.
- A radio or other audio signal presented as a two-wire analogue interface.

## 6.2 **DSP** Card identification

*Total Recall* has either 4 or 8 RJ11C/RJ12/RJ14 (6P6C) line interface sockets. The two-wire interface uses pins 3/4 (the centre pair) of the RJ11C/RJ12/RJ14 connector; the four-wire interface uses pins 3/4 and pins 2/5 of the RJ11C/RJ12/RJ14 connector. The 8-channel DSP card has grey colour four-way RJ11C/RJ12/RJ14 connectors and the 4-channel DSP card has black colour four-way RJ11C/RJ12 connectors.



## 6.3 Connecting to the Telephone Network

The location of the recorder, in a communications room or office area, will depend on issues such as user access, security access, telephone wiring and available space.

The *Total Recall* line interface is two-wire analogue. The connector terminations on the rear panel of the recorder are standard RJ11C/RJ12/RJ14 (6P6C) sockets.

The line interface on the recorder is a terminating point and not a pass-through point. Therefore it is not possible to connect the recorder in series with a telephone handset. The line interface connection from the recorder must be run back to a termination point. This termination point is normally a parallel tap to an extension line, a trunk line or a digital handset, depending on the application.

Most PABX/PBX installations have an MDF or distribution frame fitted between the incoming trunk lines and the premise equipment. The trunk lines are terminated to the MDF, and then

connected through to the PABX. Similarly, there is normally a distribution frame on the extension (office) side of the PABX. From this frame, the telephone cabling is routed through the office/work area to individual telephones, or telephone connection points.

## 6.4 Location of the Recorder

The recorder can be located near the PABX and distribution frame, or near the designated user(s) in the office area. Care should be taken when planning the installation to ensure that telephone cable runs and ease of access to the recorder are considered.

The area should be dust free and the room temperature should be keep down to an acceptable level.

## 6.5 Connecting to Analogue Lines

*Total Recall* can be connected to the trunk side or the extension side of the PABX, depending on user preferences and operational requirements.

The main difference is that an extension side connection will enable the recording of internal (extension to extension) calls. In this case, the extension number dialled maybe recorded as a search field, provided the handset generates a DTMF dialling tone.

If the number of extensions exceeds the number of trunks, and the requirement is only to record external calls then the recorder can be connected to the MDF or distribution frame on the trunk side.

Connecting on the trunk side will ensure CLI capture if CLI is activated.



<u>In the example above</u>, the recorder is patched onto a distribution strip within the communications or PABX room. Only three of the five available extensions will be recorded. If required, the recorder could be located out in the office area and wired back to the distribution frame.



In the example above, *Total Recall* is patched directly to analogue trunk lines. All call activity, incoming and outgoing, will be recorded. The recorder can be located in the Comms/PABX room, or in the "front office".

## 6.6 Connecting to a Digital Handset

Many PABX/extension installations are digital. It is common to have digital signalling on the extension side, with analogue trunk lines installed.

It is important to know the configuration of your PABX system before installing a voice logger. *Total Recall* will not record a digital line signal directly into the recorder, so digital to analogue conversion must be done prior to the line interface on the recorder.

**<u>Note:</u>** Total Recall does not provide D/A conversion. A third party product would be required for this function.

Unlike standard two-wire analogue, most digital PABXs generate their own signalling protocol, and therefore recording from digital lines or handsets can be different for each application.

Most digital handsets have audio signalling in the handpiece, with the speaker (earpiece) and microphone (mouthpiece) channels being connected to the recorder. A "Handset Adapter" can be used to parallel tap this audio signal from the handpiece, and wire directly back to the recorder. It is possible to find a signal level difference between the speaker and microphone and therefore, in a recorded conversation, one party may be heard more clearly than the other. (This is a limitation of recording via handset adapters and not a recorder limitation.)

Combinations of PABX and digital handsets can produce variable signal levels.

<u>Note:</u> It is not possible to capture incoming call (CLI) data on the recorder when using handset adapters, as the recorder connection is to the handpiece rather than to the incoming line. With some handsets, standard DTMF signalling tones are not transmitted and thus will not be captured by the recorder.

Handset adapters/logger patches are available from COMSEC.TR. Your *Total Recall* supplier should be able to advise on a suitable handset adapter, compatible with the line signalling and wiring of the handsets installed.

<u>The diagram below</u> shows a "representation" of how handset adapters may be used to enable recording direct from digital handsets.



## 6.7 Connecting to a Digital Extension Line

It is possible to connect (tap) directly to a digital extension line by using a Digital to Analogue (D/A) converter.

D/A converters are normally switch and protocol-specific, often using PABX protocol-specific interface cards in a rack mount configuration, with 1 or 2 connections per line card.

A D/A converter will monitor activity on the line, and reformat the digitised information on the line into a standard analogue format required by most recorders. The D/A converter will passively capture both sides of a conversation and send the audio signal to the recorder only when a conversation is present.

D/A converters will capture CLI information provided it is available on the line at the point of connection. D/A converters need to be installed in the Comms/PABX room, in close proximity to the PABX. There is normally a distance limitation between the D/A converter and the recorder. As with handset adapters, D/A converters are generally available from local suppliers.

*<u>Note</u>: Total Recall does not provide this D/A conversion facility.* 

## 6.8 CLI & DTMF Capture

For extension side recording, each line is dedicated to a specific channel, and will always record the same channel unless the line is disconnected or physically changed to another port.

For trunk side recording, the next call in or out will generally pick up the next available channel on the recorder, so agent calls are not channel specific.

If the recorder is connected trunk side on an analogue line and set to VOX activation, and an operator/receptionist answers the incoming call, the recorder will record the operator's comments, and also the continuing conversation of the call if it is transferred. However, in this scenario, the recorder will not capture the agent's extension number.

The CLI data will only be captured if it is embedded in the incoming call data. The recorder is designed to detect DTMF tones on dialling and display the "Dialled Number" in the Number Field of the call record. If DTMF is not present at the point of recording, then the DTMF number will not be displayed.

Note: Due to differences in the International Standards for CLI and Off-Hook, CLI captured for an <u>unanswered</u> call will be held for 5 seconds after the last ring detect and if a new call comes in without CLI within that 5-second period the previous CLI may be displayed. If CLI is critical it is suggested that VOX trigger settings are used.

## 7 Switching On and Getting Started

## 7.1 General

Once the line interface and network cables have been connected, connect the power cable and switch ON the recorder. The power ON/OFF switch is located next to the power connector at the rear of the unit.

Initially, you will see the green power LED illuminate, the red LED will flash to show HDD activity and you will hear a short beep. Text will begin scrolling on the LCD screen and then the *Total Recall* logo will be displayed. A screen will then appear giving you essential recorder information and a few seconds later the *Logging Menu* will be displayed with the padlock icon "locked". This Menu is the "default" Menu that the system will revert to after 120 seconds of inactivity.

Before commencing to navigate the menu structure enter the password [default 0000] at the *Logging Menu* and then press <SELECT>. The padlock icon in the top right corner of the LCD displays "unlocked".

## 7.2 Main Menus

There are three main menus; Options, Search, and Logging. 7.2.1 Menu Site Map Logging Menu Search Menu Search Date Time Number Search DVD Search Tag All Untag All Archive Archive Calls All Calls Found Calls Unarchived Calls Tagged Calls Archive Device **Options Menu** General Settings Language English Spanish Portuguese Korean Chinese Japanese Arabic (Islamic) Arabic (Gregorian) French Time and Date Date Time Time Zone Area Time Zone City User Password Administrator Password **Channel Settings** Channel Trigger Monitor Beep ROD Mode Allow ROD Phone Key Archive Settings Reminder Auto Archive Archive Device Call Settings Min Call Length Max Call Length VOX Timeout Recording Period Network Settings Use Dialup Use DHCP IP Address Netmask Gateway Max. Sessions Session Duration RMI Port Lan ID Advanced Heartbeat Maintenance System Information Rebuild Call Database Load Settings from CD Save Settings to CD Erase DVD System Shutdown Confirm

## 7.2.2 Default Settings

	Total Recall Default Settin	ngs
Conoral Sottings	Languaga	English
General Settings	Admin Bassword	
	Licer Deserverd	0000
	User Password	0000
Archive Settings	Reminder	When 75% full
	Auto Archive Every	01 Days
	Archive Device	DVD
	Next archive	none scheduled
Call Settings	Max. Call Length	60 Mins
	Min. Call Length	00 Secs
	VOX Timeout	15 Seconds
	Recording Period enable	Not set
	Recording Period time	8:30 - 19:00
Channel Settings	Been	OFF
Chamler Settings	Monitor	ON
	Trigger	VOX 4
	ROD Mode	Record by Default
	Allow ROD Phone Key	Disallowed
Network Settings	IP Address	10.10.10.10
	Netmask	255.255.255.0
	Gateway	0.0.0.0
	Max Session	05
	Session Duration	2 hours
	Port Base	10010
Maintenance	Recorder ID	001

## 7.2.3 Options Menu

Used for system configuration, system maintenance and system shutdown.

🌺 Total Recall		
17-Aug-2004	OPTIONS MENU	് 12:21:24
General Settings	Select Language, set Time, Date & Passwords	
Channel Settings	Set Channel Triggering, enable Live Monitoring & Recording Beep.	8.
Archive Settings	Set Archive Reminder & Automatic Archive Optio	ns
💫 Call Settings	Set Min. & Max. Call Length, VOX Timeout & Rec Period	ording
Network Settings	Modify network configuration	
Maintenance	Upgrade Software, Rebuild Call Database, set Recorder ID	
System Shutdown	Shutdown the recorder	

## 7.2.4 Search Menu

Used to set search parameters and to search the database or an archived DVD / CD for call replay. Calls found through the search can be tagged for archiving. The *Search Menu* is used to manually archive calls to DVD or CD.

🌺 Total Recall					_ 🗆 🗵
18-May-2004		SEARCI	H MENU	(	£ 09:23:39
	🔍 Sear	ch 🖄 Ta	g All 👌 Archive	•	
Date	Time	Length	Number	Channel	Status
30 Apr 2004	11:39:40	00:00:19	0410026783	> 6	С
30 Apr 2004	11:39:33	00:12:16	001118609280377	> 5	C
30 Apr 2004	11:25:54	00:12:06	0499064001	>16	С
30 Apr 2004	11:24:58	00:00:21	0786362987	< 3	
30 Apr 2004	11:23:41	00:05:41	0410026783	> 4	C
30 Apr 2004	11:23:39	00:00:06		1	C
30 Apr 2004	11:23:37	00:00:06	75835259	< 2	
30 Apr 2004	11:22:59	00:00:09		6	
30 Apr 2004	11:22:57	00:00:09	001118609280377	< 4	
30 Apr 2004	11:22:53	00:00:09	0733454311	< 2	A
30 Apr 2004	11:22:43	00:00:06	0055181690	< 4	A
30 Apr 2004	11:22:39	00:07:16		13	A
30 Apr 2004	11:22:33	00:00:12	0733454311	< 2	*A
30 Apr 2004	11:22:07	00:00:10	99064001	< 3	A
30 Apr 2004	11:22:01	00:12:06		10	A
30 Apr 2004	11:21:48	00:01:21	0322658311	7	A
30 Apr 2004	11:21:36	00:00:18	131332	< 4	*A
30 Apr 2004	11:21:34	00:00:16		16	A
30 Apr 2004	11:21:01	00:02:10	0322658311	> 8	A
30 Apr 2004	11:20:58	00:07:16	0299423134	6	*A
30 Apr 2004	11:20:54	00:00:24	0299423134	5	A
Call : 0/26					Listed : 26

## 7.2.5 Logging Menu

The *Logging Menu* is the default Menu and is used to view current call data, call activity, call status and playback selected calls. Calls can be tagged and Live Monitoring of calls is enabled from the *Logging Menu*.

🏶 Total Recall					
18-May-2004		LOGGING	MENU	ł	3 09:09:07
	_				
Date	lime	Length	Number	Channel	Status
30 Apr 2004	[11:41:51	00:00:05	0733446123	< 2	
30 Apr 2004	11:39:54	00:00:35	0733446123	> 3	
30 Apr 2004	11:39:40	00:00:19	0410026783	> 6	
30 Apr 2004	11:39:33	00:07:16		> 5	
30 Apr 2004	11:25:54	00:12:06	0410026782	> 6	
30 Apr 2004	11:24:58	00:00:21	0410026781	< 3	A
30 Apr 2004	11:23:41	00:00:07	0410026783	> 4	A
30 Apr 2004	11:23:39	00:00:06		< 3	A
30 Apr 2004	11:23:37	00:00:06		< 2	A
30 Apr 2004	11:22:59	00:00:09		6	A
30 Apr 2004	11:22:57	00:00:09		5	
30 Apr 2004	11:22:53	00:00:09	0733454311	< 2	A
30 Apr 2004	11:22:43	00:00:06		< 4	A
30 Apr 2004	11:22:39	00:00:07		< 3	A
30 Apr 2004	11:22:33	00:00:12	0733454311	< 2	A
30 Apr 2004	11:22:07	00:00:10		< 3	A
30 Apr 2004	11:22:01	00:00:13		< 2	A
30 Apr 2004	11:21:48	00:01:21	0322658311	7	A
30 Apr 2004	11:21:36	00:00:18		< 4	A
30 Apr 2004	11:21:34	00:00:16		< 2	A
30 Apr 2004	11:21:01	00:02:10	0322658311	> 8	A
30 Apr 2004	11:20:58	00:00:23	0299423134	6	A
30 Apr 2004	11:20:54	00:00:24	0299423134	5	A
20 Apr 2004	11.00.50	00.00.34		Le /1	
Call : 1/26				U	sed : 51%

## 8 Configuring Total Recall

Configuration options for **Total Recall** are accessed through the *Options Menu*. To access this menu press the <MENU> key twice from the *Logging Menu*. The *Options Menu* contains seven sub-menu items: *General, Channel, Archive, Call, Network Settings, System Maintenance and System Shutdown*. If the *Options Menu* does not appear then you will need to log in as Administrator (see Section 8.2.2).

(A T L D U		
🚵 Total Recall		
17-Aug-2004	OPTIONS MENU	<i>∎</i> ° 12:21:24
General Settings	Select Language, set Time, Date & Passwords	;
Channel Settings	Set Channel Triggering, enable Live Monitorin Recording Beep.	g &
Archive Settings	Set Archive Reminder & Automatic Archive Op	tions
<b>all Settings</b>	Set Min. & Max. Call Length, VOX Timeout & R Period	ecording
Network Settings	Modify network configuration	
Maintenance	Upgrade Software, Rebuild Call Database, set Recorder ID	
System Shutdown	Shutdown the recorder	

Use <UP> <DOWN> arrow keys to move between the Menus, then <SELECT> to enter a Menu.

## 8.1 Channel Settings

These settings are configured from the Options Menu (Channel Settings button).

Each channel can be individually configured and managed. If all channels are to be configured identically then configure the first channel and select *Apply All*.

👙 Channel Configuration	
Channel :	1
Trigger :	VOX 4
Monitor :	On
Beep:	Off
ROD Mode :	Record by Default
🔲 Allow ROD Phone Key	
ROD Phone Key	11
Apply App	ly All Cancel

Use the <DOWN> arrow key to highlight Channel 1 and then the <SELECT> key to bring up the Channel Configuration window. Then use the <UP> <DOWN> arrow keys to scroll through each setting and the <SELECT> key to change the options in each box. When finished highlight the *Apply* or *Cancel* and <SELECT> to confirm the settings or to return to the *Channel Settings Menu*. Press <MENU> to highlight either *OK* or *Cancel* and <SELECT> to return to the *Options Menu*.

#### 8.1.1 Trigger

This is the setting that starts a recording on a Channel. The trigger can be VOX, 1 through 6 (voice or audio signal), Off-Hook or Off.

**VOX 6:** High signal and low sensitivity (-20dBm). This setting would trigger on a "loud" conversation, but may not trigger on a very soft conversation.

**VOX 4:** The default setting. (-28dBm).

**VOX 1:** Low signal and high sensitivity (-40dBm). This setting would trigger on a very soft voice, but may trigger the recorder from a noisy line.

**Off-Hook:** This is the recommended setting for normal recording when connected direct to a PSTN telephone line. If you are recording telephone calls, we recommend that the "Trigger" settings for each Line remain at the default during the initial configuration set-up.

The Off-Hook function is triggered by a voltage change on the line. A drop in voltage (Off Hook voltage typically 8VDC) will normally provide sufficient voltage change to be detected by the recorder, and activate recording. Replacing the receiver would normally stop the recording. (On Hook voltage typically 48VDC).

However, if there is insufficient voltage on the line, the Off-Hook function will not work, and therefore a VOX trigger will need to be selected.

Handset Splitter/Logger Patch detect audio signals from the hand piece, not voltage change on the line, so Off-Hook cannot be used when the recording is via handset Splitter/Logger Patch.

<u>Note</u>: If a channel is set to Off-Hook and no line is connected to the channel, the channel will commence recording and can only be disabled by setting the channel to OFF or VOX.

**ROD:** Recording can <u>only</u> be initiated and terminated via the Record on Demand (ROD) PC software. The configured channel will begin recording when the user selects 'Record' on their ROD software, and will terminate recording when the user selects 'Stop Recording'.

**Off:** No recording is possible from a channel that has been set to Off. It is recommended that all unused channels be set to Off.

#### 8.1.2 Monitor

This enables Live Monitoring of calls on a channel. By setting a channel *Mon* to On, calls can be live monitored on that channel through the *Logging Menu*. Options are: On or Off with the default setting being On.

Press the *<*SELECT*>* key to toggle between the two settings.

#### 8.1.3 Beep

Beep tone (*Pip Tone*) is a "beep" sound generated every 15 seconds indicating to both parties that the call is being recorded.

In some countries, it may be mandatory to issue a "beep tone" when recording. For some users, it is a matter of preference or company policy. It is possible to turn the "beep tone" On or Off. *Total Recall* does not transmit a recorded message to advise that recording is taking place.

The options are Hi, Mid, Low or OFF. The default setting is OFF.

Press *<*SELECT*>* to toggle between the four settings.

Repeat the selection settings for each channel. If all channels are to be configured identically then configure any channel and select *Apply All*.

#### 8.1.4 ROD Mode (Record On Demand)

ROD Mode settings are used in conjunction with the optional Record on Demand software. They control how users of Record on Demand will interface with the Total Recall unit. The options are Record by Default, Don't Record by Default, Record Partial Calls, Add Notes Only or Disallowed. Press Select to toggle between the five settings.

For more information regarding the TR ROD taskbar software and the appropriate channel setup for your application, see the **Record on Demand** section of this manual. If Record on Demand is not to be used, it is advisable to leave the ROD settings as "Record by Default".

#### 8.1.5 Allow ROD Phone Key

Alternatively, users can access Record on Demand features by entering a pre-selected DTMF code on their phone keypad. To activate this feature, select the "Allow ROD Phone Key" check box. This will then open a field where you can customise a two-digit DTMF code for keeping or discarding a current call, depending on your ROD Mode settings (See section 11.5 of this manual for further detail).

Users can choose to keep or discard a current call, or stop and start a recording (dependant on the ROD Mode settings) by pressing \*, then their code on the phone keypad while a call is in progress.

*Note:* If DTMF tones are not transmitted by your PBX hand set this function will not work.

👙 Channel Configuration		×
Channel :	1	
Trigger :	VOX 4	
Monitor :	On	
Beep :	Off	
ROD Mode :	Record by Default	
🗌 Allow ROD Phone 🗄	Key	
ROD Phone Key	11	
Apply	Apply All Cancel	

## 8.2 Passwords

This setting is configured from the Options Menu (General Settings Menu).

*Total Recall* has two password levels (Administrator and User) for enhanced system security. Both passwords have a default setting of 0000.

Language	
Time & Date	
User Password	d
Administrator Pass	word
Return	

## 8.2.1 User Password

After 120 seconds of inactivity the padlock icon on the LCD will display locked status. Enter the Password to gain access to the 3 Menus (provided the Administrator Password has not been set (see Section 8.2.2).

#### 8.2.2 Administrator Password

Once the Administrator Password has been set then only the Administrator will have access to the *Options Menu* and only the Administrator will have the ability to manually archive *and* delete calls. All other functionality (including Manual Archive and retain the calls on the hard drive) will be available with the User Password. If the Administrator Password is not changed from the default setting then all Menus will be accessible.

#### 8.2.3 Entering a Password

A password must be entered to access *Total Recall*'s menus. If *Total Recall* is left unattended for more than two minutes or if the "Stop" key (Playback Control Keys) is pressed whilst not playing a call the User Interface locks and a password will need to be re-entered to regain access to the menus. The padlock icon at the top right-hand corner of the LCD indicates whether or not *Total Recall* is secure.

🌺 Total Recall					<u> </u>
18-May-2004	LOGGING MENU				₿ 09:09:07
Date	Time	Length	Number	Channe	I Status
30 Apr 2004	11:41:51	00:00:05	0733446123	< 2	
30 Apr 2004	11:39:54	00:00:35	0733446123	> 3	
30 Apr 2004	11:39:40	00:00:19	0410026783	> 6	
30 Apr 2004	11:39:33	00:07:16		> 5	
30 Apr 2004	11:25:54	00:12:06	0410026782	> 6	
30 Apr 2004	11:24:58	00:00:21	0410026781	< 3	A
30 Apr 2004	1 R Entor Day	cword	0.110000700	VI.	A
30 Apr 2004	11 Senter Pas	sworu			A
30 Apr 2004	11				A
30 Apr 2004	11 Please e	nter the pass	word to continue.		A
30 Apr 2004	1	**			
30 Apr 2004	11				A
30 Apr 2004	[Select]	to accept pas	sword		A
30 Apr 2004	1 Monul t	a roturn ta la	aaina Monu		A
30 Apr 2004	1. [Menu] t	o return to Lo	gging Menu		A
30 Apr 2004	11				A
30 Apr 2004	11:22:01	00:00:13		< 2	A
30 Apr 2004	11:21:48	00:01:21	0322658311	1	A
30 Apr 2004	11:21:36	00:00:18		< 4	A
30 Apr 2004	11:21:34	00:00:16	0000050044	< 2	A
30 Apr 2004	11:21:01	00:02:10	0322658311	> 8	A
30 Apr 2004	11:20:58	00:00:23	0299423134	6	A
30 Apr 2004	11:20:54	00:00:24	0299423134	5	A
0-II - 4/00	144-00-60	-00-00-04	1	- A	Line di Edel
Call: 1/26					Usea : 51%

#### 8.2.4 Changing a Password

From the *General Settings Menu* select the *Password* button. You can continue to use the default passwords (0000), or new passwords can be set.

Follow the instructions in the sub-menu screen. If you forget your password at any time, the system will be inoperable and you should contact your *Total Recall* reseller for assistance. Enter your password (8 digits maximum) using the numeric keypad. A null password (just the <SELECT> key) is also possible.

Use the <DOWN> arrow to Confirm New Password.

Enter the same password again to confirm.

Use the <DOWN> arrow to highlight *OK* or *Cancel* and <SELECT> to confirm. Press <MENU> to return to the *Options Menu*.

onfirm New Passv	vord: ****
OK	Cancel
ser Password accer	oted

## 8.3 Call Settings

This setting is configured from the *Options Menu (Call Settings* button).

Min. Call Length	02 Secs	
Max. Call Length	30 Mins	
VOX Timeout	15 Seconds	
Recording Period :	08:30 .	19:00
ОК	Cancel	

## 8.3.1 Minimum Call Length

The Minimum Call Length setting can be between zero and ten seconds in increments of one second, and applies equally to all channels. The call will initially appear in the Logging Menu, but if the call length when the call is terminated is less than the Minimum Call Length setting then the call will be automatically deleted. The default setting is zero meaning that no calls will be deleted.

Extreme care needs to be taken with this setting <u>as it is normal to record all calls</u> and only under very specific circumstances (ex noise spikes external to the recorder causing frequent and unwanted false recordings) that this setting would be changed from the default.

#### 8.3.2 Maximum Call Length

The Maximum Call Length setting can be between one and sixty minutes in increments of one minute, and applies equally to all channels. If a call reaches the maximum length setting, the call record will be terminated at that point, and then a new record will immediately open. This new record will be indicated by (CONT) after CLI or DTMF digits in the "Number" field. If the "Number" field is full then the number will be followed by (....) to indicate that there is a continuation of the numbers.

This function enables very lengthy recordings (for example, radio monitoring) to be presented as a series of recordings in manageable length sizes. The default Maximum Record Length setting is 60 minutes.

To change the setting press the *<*UP> or *<*DOWN> arrow key to highlight the field, press *<*SELECT> to change the value. Use the *<*UP> *<*DOWN> arrows to highlight *OK* or *Cancel* to return to the *Options Menu*.

#### 8.3.3 VOX Timeout

If VOX is set as the recording trigger, VOX Timeout will determine the maximum length of quiet time the recording will continue before being terminated. This ensures that if a call has ended and the phone is not hung up properly, the recorder will not continue to record silence.

VOX Timeout settings can be between 2-15 secs, and applies to all channels that have the Trigger set to VOX.

In the event that an active call is put on hold, and there is no "music on hold" being played, then the recording will terminate according to the VOX Timeout setting. When the call recommences, the VOX trigger will immediately open and start a new recording so that the complete conversation is captured across two recordings.

The default VOX Timeout setting is 15 seconds.

<u>Note</u>: Whatever the VOX Timeout setting, that length of time must be allowed between the termination of one call and the start of the next call. If the next call starts within the VOX Timeout setting, both calls will appear as one call record on the database, i.e. two calls appear as one continuous call.

To change the setting press the *<*UP> or *<*DOWN> arrow key to highlight the field, press *<*SELECT> to change the value. Use the *<*UP> *<*DOWN> arrows to highlight *OK* or *Cancel* to return to the *Options Menu*.

## 8.3.4 Recording Period

**Total Recall** can be programmed to record only between predetermined times. Press the  $\langle UP \rangle$  arrow key to highlight the *Recording Period* button. Press  $\langle SELECT \rangle$  to put the tick in the box. Press the  $\langle DOWN \rangle$  arrow key to access the hour and minutes boxes and either enter numerals with the numeric keypad or press  $\langle SELECT \rangle$  for sequential change. Use the  $\langle UP \rangle \langle DOWN \rangle$  arrows to highlight *OK* or *Cancel* to return to the *Options Menu*.

With Recording Period activated, the screen below is displayed in the absence of recording.

Not Recording	
Currently only recording from 12:30 - 19:00	

## 8.4 Remote Access Settings

Total Recall has two ports for remote access. DB9 Comm port for connection to a modem and a RJ45 'LAN' port for network connection.



Desktop Unit





Rack Mount Unit

Network Setting					x
🔲 Use Dialup					
🗹 Use DHCP					
IP Address :	192	168	3	22	
Netmask :	255	255	255	0	
Gateway :	192	168	з	252	
Max Session :	05				
Session Duration :	2 hou	irs			
RMI Port :	1099				
LAN ID:	GBRG	; DJJT	AUAA		
Advanced	ок		Cancel		

## 8.5.1 Connecting Total Recall using LAN

All devices connected to a LAN will need to have a unique IP address. An IP address should be assigned by your network administrator and should be in the same range as the PC's connecting to *Total Recall. Total Recall* is provided with a crossover cable to allow direct connection to a PC without the need for a network switch/hub, which allows for a single PC to connect to a single *Total Recall*. To connect multiple PC's to *Total Recall* or to connect *Total Recall* to an office LAN you need to connect through a network switch/hub and standard network cables.

## 8.5.2 Entering IP Address

**Total Recall** requires an IP Address to connect either to a network or direct to a PC using the crossover cable. Enter a unique IP address for the **Total Recall** to be connected to your network by using the  $\langle UP \rangle \langle DOWN \rangle$  arrow keys to highlight the first 3 digits in *IP Address* and using the **Total Recall** numeric keypad to enter the IP address, to move to the next three digits in the address use the  $\langle UP \rangle \langle DOWN \rangle$  arrow keys. Scroll down to the *OK* button to save the new IP address. An IP address should be set only by the System Administrator.

## Note: *Total Recall* is shipped with no IP address and will need to be set to allow operation on your network.

*Caution:* For security reasons it is NOT recommended that dialup access is activated while Total Recall is connected to your TCP/IP Network.

## 8.6 Remote Dialup Access

#### 8.6.1 Modem

To connect *Total Recall* via dialup you will require a serial modem (V90 or V92) and the (modem) cable supplied with *Total Recall*: Follow the instructions that came with the modem to connect it to the telephone line and power.

#### 8.6.2 Dialup Address

There is no requirement to set an IP address when connecting *Total Recall* to a modem, as *Total Recall* will automatically assign the dialup IP address to 10.0.1.205.

For instructions about connecting to *Total Recall* via dialup please refer to the *Remote Manager* section of this manual.

#### 8.6.3 Cascading

The cascade function is used when you wish to connect multiple *Total Recall* units together and access them via dialup using a single telephone line.

To use the cascade function you will need to connect the first unit to the modem using the dialup instructions above. Multiple units can be cascaded to this unit by connecting between the Network Connections on the *Total Recall* units. A crossover cable can be used if one cascade unit is used or if multiple units need to be connected using cascade then a network switch/hub will be required. A dedicated network switch/hub should be used when connecting Cascaded *Total Recall* to the office network.

An IP address will be required for each unit to be cascaded. The IP address will need to be set manually and will need to be in the range 10.0.1.1 to 10.0.1.203 or 10.0.1.206 to 10.0.1.254.

## 8.6.4 DHCP (Dynamic Host Configuration Protocol)

If your network is configured for DHCP selecting this setting will allow your network to choose an IP address for your *Total Recall*. Use the  $\langle UP \rangle \langle DOWN \rangle$  arrow keys to highlight *DHCP* and press the  $\langle SELECT \rangle$  key, this will grey out the IP address section and place a tick in the check box. Scroll down to the *OK* button and press  $\langle SELECT \rangle$ . The IP address that is allocated for *Total Recall* will be displayed in the greyed out section in the *Network Settings* Menu.

## 8.7 Max Sessions

Max Sessions is used in conjunction with *Remote Manager* and is the maximum number of users allowed to simultaneously monitor or playback calls from a remote location. The default setting is 5. Please consult your IT Manager before changing this setting as increasing this could effect your LAN bandwidth. To change this setting use the  $\langle UP \rangle \langle DOWN \rangle$  arrow keys to highlight the *Max Sessions* entry box, then using the numeric keypad enter the desired number, scroll to *OK* and press the  $\langle SELECT \rangle$  key. Total Recall calls are compressed to approximately 1kb per second and use FTP to stream calls to the PC so as to minimise the bandwidth used.

## 8.8 Session Duration

Session Duration is used in conjunction with *Remote Manager* and allows for automatic logout of users that are inactive for more than the entered time in seconds. Users that are logged out by session duration will be automatically logged back on as soon as there is activity again and Sessions available (see **8.7**). Please consult your IT Manager before changing this setting. To change this setting use the  $\langle UP \rangle \langle DOWN \rangle$  arrow keys to highlight the *Session Duration* entry box, then using the  $\langle SELECT \rangle$  key enter the desired number in seconds, then scroll to *OK* and press the  $\langle SELECT \rangle$  key again.

## 8.9 RMI Port

This is used to change the port that *Total Recall Remote Manager* will open for communications. The default setting is the recommended setting. It is advised that you consult your IT Manager before changing this setting.

## 8.10 Language

This setting is configured from the Options Menu (General Settings button).

From the *General Settings* Menu select *Language*. English, Spanish, French, Korean, Portuguese, Chinese, Japanese and Arabic languages are available.

Use the <DOWN> arrow key to highlight the desired language and press the <SELECT> key.

hange the La	inguage 👔
English	Español
Français	한국어
Italiano	Português
中文	日本語
ائتقويم الهجري	التقويم الميلادي

## 8.11 Time & Date

👙 Set Date and Time	×
Synchronize with NTF	>
NTP Address 1 :	0 0 0 0
NTP Address 2 :	0 0 0 0
Date :	09 AUG 2007
Time :	14:38
Time Zone Area :	Australia
Time Zone City :	Sydney
ОК	Cancel

Using this dialog the time can be set manually or synchronized to an external time server which supports the Network Time Protocol (NTP). The admin user can access this dialog by going to the *Options Menu* and selecting the *General Settings Menu*. From the General Settings Menu you select the *Time & Date button*.

## 8.11.1 Setting the time Manually

First ensure that the check next to "Synchronize with NTP" is not checked. If it is checked, use the arrow keys to navigate to the check box and press the select key. This should uncheck the box.

Use the <DOWN> arrow key to highlight the day and key in the day from the numeric keypad, or use <SELECT> to sequentially change value. Press the <DOWN> arrow key to highlight the month and use <SELECT> to sequentially change the month. Press the <DOWN> arrow key to highlight the year and key in the year from the numeric keypad or use <SELECT> to sequentially change the value.

Press the <DOWN> arrow key to highlight the hours and key in the hours using 24-hour time from the numeric keypad or use <SELECT> to sequentially change the value. Minutes and seconds are set in the same manner.

Press the <DOWN> arrow key to highlight the Time Zone Area and <SELECT> to choose the appropriate option.

Press the <DOWN> arrow key to highlight the Time Zone City and <SELECT> to choose the appropriate option.

*Caution:* Time Zone must be set prior to recording calls. If there are calls on the database these need to be removed prior to setting the time zone. The time zone is saved as part of the call information, and may be used to calculate daylight savings corrections or by *Remote Manager* to determine the time correction required if the call is replayed in a different time zone.

Press the <DOWN> arrow key to highlight *OK*, then <SELECT> to save and exit. *Cancel* aborts and returns to the *General Settings* Menu.

#### 8.11.2 Synchronizing the Time using Network Time Protocol (NTP)

To synchronize the clock of the Total Recall to an external NTP server, navigate to the check box next to "Synchronize to NTP" and press the select box to ensure that the check box is checked. Now you enter the IP addresses of the two NTP servers to synchronize against.

Navigate to the OK button and press <Select>. The Total Recall will now attempt to contact the NTP servers and synchronize the time. If successful the time of the Total Recall machine will be kept in sync with the external server. Even if the Total Recall is rebooted the time will remain synchronized with the time server.

If the time server is down, or you entered the IP Address of the Time Server incorrectly, then the attempt to synchronize the time will fail and a warning will be displayed.

## 8.12 Upgrade Software

This procedure is accessed from the Options Menu, (Maintenance, System Information button).

8	System Maintenance Options	×
	System Information	
	Rebuild Call Database	
	Load Settings from DVD/CD	
	Save Settings to DVD/CD	
	Erase DVD	
	Cancel	

System upgrades are provided on CD, and uploaded to *Total Recall* from this Menu. System upgrades will change only the *Total Recall* system files.

Insert the upgrade CD into the DVD drive. From the System Information Screen select Upgrade.

After the upgrade it will be necessary to shut down and restart *Total Recall*. See note below.

*Note Rack Model:* If the Rack Model is mounted in a 19" Rack and the On/Off switch on the Power Supply is not accessible at the rear of the enclosure use the Key switch on the front panel to restart the unit. For location of the Key Switch see Diagram on page 13.

<u>Note</u>: Any pre-recorded voice files on the hard drive will not be affected by a software upgrade; however it is highly recommended to make a complete archive copy of all important calls before starting the upgrade process.

## 8.13 Recorder ID

This feature is accessed from the Options Menu (Maintenance button).

For *Total Recall* installations using multiple recorders it is often useful to be able to identify from which recorder a particular call originated. The Recorder ID feature permits this identification. Highlight the *System Information* button, press <SELECT> and use the <UP> arrow key to place the cursor over the Recorder ID field. Using the numeric keypad type in a unique ID for the recorder (up to 3 digits). The Recorder ID is stored in the 'LogInfo.ini' file that is saved with every session. When archived calls are being searched on a PC using *Remote Manager* the Recorder ID can be displayed for each call in the *Remote Manager* Window.

## 8.14 Rebuild Call Database

This procedure is accessed from the *Options Menu (Maintenance* button).

In the event of a power cut, line disconnection or other event that may have damaged a call record, or left a call record unterminated the system will automatically perform a Database Rebuild.

There is an option to rebuild the call database manually. Select *Rebuild Call Database* using the <DOWN> arrow key and highlight either *Cancel* or *Rebuild Now* and press <SELECT>. *Rebuild Now* will automatically rebuild the database. After the rebuild the *OK* button will be highlighted, press <SELECT> to return to the *Options Menu*.

*Note:* Call recording is suspended while rebuilding the database. Database rebuild may be a lengthy process.

## 8.15 Save & Load Setting From DVD or CD

This procedure is accessed from the Options Menu (Maintenance button).

After configuring *Total Recall* it is recommended that you keep a copy of the configuration on DVD or CD. To save the configuration place a blank disk into the *Total Recall* DVD drive and using the <DOWN> arrow key highlight the *Save Settings to DVD / CD* and press the <SELECT> key.

This procedure is accessed from the *Options Menu (Maintenance* button). To load the settings from disk, place the disk with your previously saved settings and using the <DOWN> arrow key highlight the *Load Settings from DVD / CD* and press the <SELECT> Key.

## 8.16 Erase DVD

This procedure is accessed from the Options Menu (Maintenance button).
Insert the DVD to be erased into the Total Recall DVD drive and using the <DOWN> arrow key highlight the *Erase DVD button* and press the <SELECT> Key. Please note that all calls on the DVD will be lost after the erase operation has been performed.

# 9 Operating Total Recall

## 9.1 Searching for Calls

These operations are accessed from the Search Menu (Search button).

## 9.1.1 Searching from the Hard Drive



Highlight the *Search* button using the <UP> <DOWN> arrow keys and press <SELECT>. This will take you to the *Add Calls to List* Menu. Use the <UP> <DOWN> arrow to navigate to each option. Key in the selection from the numeric keypad or use <SELECT> to sequentially change the value. Highlight *Search* and press <SELECT>. *Total Recall* then searches through the call database on the HDD for all calls that matches your search criteria. The more search criteria entered the more specific the result. The date and time of the first and last calls are displayed.

31 MA	R 2004	-	31 MAR 2004	
08:00		-	20:00	
029869	31234			
All		A	ll Channels	
rch CD	Search	1	Cancel	
	31 MA 08 : 00 029869 All <b>rch CD</b>	31 MAR 2004 08:00 0298691234 All rch CD Search	31 MAR 2004 . 08:00 - 0298691234 All A rch CD Search	31 MAR 2004     .     31 MAR 2004       08:00     -     20:00       0298691234     .     .       All     All Channels       rch CD

<u>Note</u>: If your search spans (midnight), the system will not accept time criteria in the search parameters. Either do not specify time criteria, or initially search up to 2359 hours on Day 1 and then search from 0000 hours on Day 2.

If the call you are looking for is not found, you may need to check and possibly modify the selection criteria and search again.

31-Mar-2004		SEARCH M	IENU	Œ	£ 11:53:08
	🔍 Searc	:h 🔯 Tag A	ll 👌 Archive		
Date	Time	Length	Number	Channel	Status
31 Mar 2004	09:42:26	00:00:12		8	-
31 Mar 2004	09:42:24	00:00:12		7	9
31 Mar 2004	09:42:22	00:00:12		6	9
31 Mar 2004	00:42:12	00.00.10		Ĕ.	S
31 Mar 20( 🏷 5	earching			×	9
31 Mar 20( Sea	rch Complete				S
31 Mar 200 at a	alle found hotwor	n 91 Mar 9004 and	21 Mar 2004	-	S
31 Mar 201	ans round betwee	n 51 Mai 2004 anu	51 Wal 2004.	1	9
31 Mar 200				-	S
31 Mar 200				1	8
31 Mar 200					S
31 Mar 200				OK	5
31 Mar 200-	08.08.40	100 00 15		15.54	8
31 Mar 2004	09:39:36	00:00:19		< 2	S
31 Mar 2004	09:39:13	00:00:11		5	S
31 Mar 2004	09:39:07	00.00.11		< 4	9
31 Mar 2004	09:39:05	00:00:11		< 3	9
31 Mar 2004	09:39:03	00:00:11		< 2	
31 Mar 2004	09:38:21	00:00:15		7	9
31 Mar 2004	09:38:15	00:00:19		6	9
31 Mar 2004	09:38:11	00:00:21		5	S
04 MA-+ 0004	00.20.00	00.00.00		1.4	
Call : 0/24					isted · 24

## 9.1.2 Searching from DVD or CD Archive

If you need to locate calls on a previously archived DVD or CD insert the disk in the drive. Highlight the *Search* button using the <UP> <DOWN> arrow keys and press <SELECT>. This will take you to the *Add Calls to List* Menu. Use the <UP> <DOWN> arrow to navigate to each option. Key in the selection from the numeric keypad or use <SELECT> to sequentially change the value. Highlight *Search DVD / CD* and press <SELECT>.

*Total Recall* then searches through the archived sessions for all calls that matches your search criteria. The date and time of the first and last calls on the disk is displayed.

If the call you are looking for is not found, you may need to check and possibly modify the selection criteria and search again.

The Tag All button is not available when working from an archive DVD or CD.

# 9.2 Replaying Calls

#### 9.2.1 From Search Menu

Selected calls are displayed in the lower part of the *Search Menu*. The information displayed on each call includes Date, Time, Duration, Number, Channel and Status. The <UP> <DOWN> arrow keys can be used to scroll through the displayed calls. To replay a call, position the highlight bar over the target call and press <SELECT>.

Adjust the playback volume by using the volume control thumb wheel on the front panel. To stop replay, press <SELECT> again, or push the *Stop* button on the Control Keys.

Alternatively, a call may be replayed using the Control Keys (see Section 5.3.7).

When a call is being replayed, the progress of the call will be displayed at the bottom of the LCD.

## 9.2.2 From Logging Menu

(# T L D					
🛬 lotal Recall					
18-May-2004		LOGGING	MENU	d	₿ 09:09:07
Date	Time	Length	Number	Channel	Status
30 Apr 2004	11:41:51	00:00:05	0733446123	< 2	
30 Apr 2004	11:39:54	00:00:35	0733446123	> 3	
30 Apr 2004	11:39:40	00:00:19	0410026783	> 6	
30 Apr 2004	11:39:33	00:07:16		> 5	
30 Apr 2004	11:25:54	00:12:06	0410026782	> 6	
30 Apr 2004	11:24:58	00:00:21	0410026781	< 3	A
30 Apr 2004	11:23:41	00:00:07	0410026783	> 4	A
30 Apr 2004	11:23:39	00:00:06		< 3	A
30 Apr 2004	11:23:37	00:00:06		< 2	A
30 Apr 2004	11:22:59	00:00:09		6	A
30 Apr 2004	11:22:57	00:00:09		5	
30 Apr 2004	11:22:53	00:00:09	0733454311	< 2	A
30 Apr 2004	11:22:43	00:00:06		< 4	A
30 Apr 2004	11:22:39	00:00:07		< 3	A
30 Apr 2004	11:22:33	00:00:12	0733454311	< 2	A
30 Apr 2004	11:22:07	00:00:10		< 3	A
30 Apr 2004	11:22:01	00:00:13		< 2	A
30 Apr 2004	11:21:48	00:01:21	0322658311	7	A
30 Apr 2004	11:21:36	00:00:18		< 4	A
30 Apr 2004	11:21:34	00:00:16		< 2	A
30 Apr 2004	11:21:01	00:02:10	0322658311	> 8	A
30 Apr 2004	11:20:58	00:00:23	0299423134	6	A
30 Apr 2004	11:20:54	00:00:24	0299423134	5	A
20 Apr 2004	11.00.50	00.00.24		- 1	A
Call : 1/26				L	Jsed : 51%

To replay a call from the *Logging Menu*, position the highlight bar over the target call and press <SELECT>.

Adjust the playback volume by using the volume control thumb wheel on the front panel.

To stop replay, press <SELECT> again, or push the *Stop* button on the Control Keys.

Alternatively, a call may be replayed using the Control Keys (see Section 5.5.7).

When a call is being replayed, the progress of the call will be displayed at the bottom of the LCD.

## 9.3 Live Monitoring of Calls

This feature is accessed from the *Options Menu (Line* button). See Section 8.1.2 to enable the Live Monitoring function.

A current call will have the letter (C) in the "Status Column". Highlight the call with the  $\langle UP \rangle$  $\langle DOWN \rangle$  arrow keys and then press  $\langle SELECT \rangle$ . The letter (M) in the status column after the (C) will indicate Live Monitoring. If the "beep tone" is enabled then this will be heard on the internal speaker.

To end monitoring, press <SELECT> again. This will stop Live Monitoring, but will not terminate the call.

## 9.4 Archiving Calls

**Total Recall** stores compressed call files internally on the hard disk drive. Call files can then be archived to DVD or CD either manually (whenever required) or automatically (at scheduled intervals). Approximately 1,000 channel hours on a standard DVD and approximately 180 channel hours on a standard CD, depending on the call lengths and the number of sessions used. It is recommended that calls be archived on a regular basis (but see 9.4.1). Call recording will continue during the archive process even though the process may take some time to complete (especially if there are long files or a very large number of files to be archived). Progress will be displayed on the screen. Other recorder functions (other than recording) are disabled during this process.

<u>Note</u>: During the archive process, the clock (top right corner) may stop at times. This is part of the normal operation. The screen refresh of the clock functions as a lower priority during the archive.

### 9.4.1 Archive Sessions

Archiving to a DVD or CD is performed in sessions. Each session updates the disks directory, writes the calls and closes with an end of session marker. Archiving to disk media needs to be done thoughtfully as each session marker takes approximately 10Mbyte of disk space. This is equivalent to approximately three hours of calls. Therefore to minimise wasted space it is better to archive many hours worth of calls in one session instead of a small number of short calls in multiple sessions.

To maintain compatibility with various CD readers a maximum of 25 sessions is permissible per CD.

### 9.4.2 Tagging (\*) a Call

Calls can be selected for Manual Archiving by placing a Tag (\*) in the "Status" column in either the *Logging Menu* or the *Search Menu*. Alternatively, a selection of calls can be Tagged or Untagged using the *Tag All/Untag All* button within the *Search Menu*.

To Tag a selected call within the *Logging Menu* or *Search Menu*, highlight the call and press the asterisk key (\*) on the numeric keypad. To Un-Tag a selected call, place the highlight bar over the call and press the asterisk key (\*) on the numeric keypad.

Once a selection of calls have been found through the *Search Menu* the whole selection can be Tagged or Untagged by highlighting the *Tag All / Un-tag All* button and press <SELECT>.

#### 9.4.3 Manual Archiving

This operation is performed from the Search Menu (Archive button).

You firstly need to select the calls to be manually archived. These calls may have been previously Tagged at the *Logging Menu*, selectively Tagged at the *Search Menu* or a complete list selected (*Tag All* button) from the *Search Menu* call list.

🌺 Total Recall					<u>_     ×</u>
18-May-2004		SEARCH	H MENU	(	<b>_</b> € 09:23:39
	🔍 Sear	ch 👸 Tay	g All 🛛 🔬 Archive		
Date	Time	Length	Number	Channel	Status
30 Apr 2004	11:39:40	00:00:19	0410026783	> 6	С
30 Apr 2004	11:39:33	00:12:16	001118609280377	> 5	Č
30 Apr 2004	11:25:54	00:12:06	0499064001	>16	Ċ
30 Apr 2004	11:24:58	00:00:21	0786362987	< 3	
30 Apr 2004	11:23:41	00:05:41	0410026783	> 4	C
30 Apr 2004	11:23:39	00:00:06		1	С
30 Apr 2004	11:23:37	00:00:06	75835259	< 2	
30 Apr 2004	11:22:59	00:00:09		6	
30 Apr 2004	11:22:57	00:00:09	001118609280377	< 4	
30 Apr 2004	11:22:53	00:00:09	0733454311	< 2	A
30 Apr 2004	11:22:43	00:00:06	0055181690	< 4	A
30 Apr 2004	11:22:39	00:07:16		13	A
30 Apr 2004	11:22:33	00:00:12	0733454311	< 2	*A
30 Apr 2004	11:22:07	00:00:10	99064001	< 3	A
30 Apr 2004	11:22:01	00:12:06		10	A
30 Apr 2004	11:21:48	00:01:21	0322658311	1	A
30 Apr 2004	11:21:36	00:00:18	131332	< 4	*A
30 Apr 2004	11:21:34	00:00:16	0000050044	16	A
30 Apr 2004	11:21:01	00:02:10	0322658311	> 8	A
30 Apr 2004	11:20:58	00:07:16	0299423134	6	*A
30 Apr 2004	11:20:54	00:00:24	0299423134	5	A
Call : 0/26					Listed : 26

Use the <UP> <DOWN> arrow keys to highlight *Archive Calls*. Press <SELECT> to choose between All Calls, Found Calls, Unarchived Calls or Tagged Calls. When an archive option is selected *Total Recall* displays the following:

- The number of calls.
- The call size in MB.

Start the archive process by pressing *OK* or *Cancel* to return to the *Search Menu*. If you choose to continue with the archive process and you have Administrator Access (Section 8.2) you will be asked whether you wish to remove the selected calls on the hard drive after the archive has been completed or whether you wish to keep them. Make your selection using the  $\langle UP \rangle \langle DOWN \rangle$  arrow keys and the  $\langle SELECT \rangle$  key. Alternatively choose to *Cancel* the archive. If you choose to continue with the archive process and you do not have Administrator Access you will not be given the option to remove the selected calls on the hard drive after the archive has been completed. Once the archive process begins messages will be displayed indicating the status of the archive process. This is followed by a message indicating the completion of the archive.

🌺 Total Recall					
18-May-2004		SEARCI	H MENU		<b>_</b> 09:23:39
	🔍 Sear	ch 🖄 Ta	g All 🛛 🔬 Archiv	e	
Date	Time	Length	Number	Channel	Status
30 Apr 2004	11:39:40	00:00:19	0410026783	> 6	C
30 Apr 2004	11:39:33	00:12:16	001118609280377	> 5	C
30 Apr 2004	11:25:54	00:12:06	0499064001	>16	С
30 Apr 2004	11:24:58	00:00:21	0/86362987	< 3	0
30 Apr 2004		100 05 4 1	10410076783	> 4	
30 Apr 2004	Mrchiving				
30 Apr 2004	👗 Archiving				
30 Apr 2004	Archiving 29 ca	lls			
30 Apr 2004	. A a china g 20 cu				A
30 Apr 2004					A
30 Apr 2004				ок	A
30 Apr 2004					*A
30 Apr 2004	11:22:07	00:00:10	99064001	< 3	A
30 Apr 2004	11:22:01	00:01:21	0222659211	7	A
30 Apr 2004	11:21:40	00:01:21	12122000011	e 1	*
30 Apr 2004	11:21:34	00:00:16	101002	16	A
30 Apr 2004	11:21:01	00:02:10	0322658311	> 8	A
30 Apr 2004	11:20:58	00:07:16	0299423134	6	*A
30 Apr 2004	11:20:54	00:00:24	0299423134	5	A
Call : 0/26					Listed : 26

*<u>Note</u>: It is recommended to start the archive process at non-peak business hours.* 

# 9.4.4 Automatic Archiving

This operation is performed from the Options Menu (Archive Settings button).

To set the *Total Recall* to automatically archive navigate to the *Auto Archive* button with the  $\langle UP \rangle \langle DOWN \rangle$  arrow keys and press the  $\langle SELECT \rangle$  key to put a tick  $\square$  in the Auto Archive box. The archive time interval is now available to be set. This interval can be set in days or weeks with a range from 1 to 5. Press the  $\langle DOWN \rangle$  arrow key to activate the number-options box and use the  $\langle SELECT \rangle$  key to cycle through the options. Press the  $\langle DOWN \rangle$  arrow key again to activate the weeks-days options box and press the  $\langle SELECT \rangle$  key to cycle through the options and make your selection.

🗹 Auto Archive	Every 1 Days
Archive Device :	CD
Next archive: Midnight o	n Mar 31, 2004)

Within this screen *Total Recall* indicates when the next Automatic Archive session will occur based on the present time and the selected time interval. After setting up the Automatic Archive parameters the first archive will always occur at the following midnight and then the Automatic Archive interval setting will regulate the frequency of subsequent Automatic Archives.

### 9.4.5 Damaged DVD / CD or Insufficient Space

If there is insufficient space on the DVD or CD to accommodate the archive selection, you will be asked to insert a new CD.

If the DVD or CD is damaged in any way, a message will advise that the archive failed and to try again with a different disk.

### 9.4.6 Archive Reminder

This feature is accessed from the Options Menu (Archive Settings button).

To set the Archive Reminder feature navigate to the *Reminder* button with the <UP> arrow key and press the <SELECT> key to put a tick in the Reminder box. Use the <DOWN> arrow key and <SELECT> key to set the Reminder at either 50%, 75% or 90% hard drive capacity. This is a visual and audible reminder of actual disk space used. This message will continue to appear even after an automatic archive as no calls have been removed.

## 9.5 Deleting Calls

*Total Recall* has been designed as a secure recording system. It is not possible to enter any of the User Menus and delete selected files from the database. However, there are two ways in which files can be removed from the database:

- a) Delete using the "Do you want to remove the calls you archive?" selection from the Manual Archive procedure (Section 9.4.3) when you are logged in as an Administrator.
- b) Auto system deletion. This is an automatic system function, designed to ensure that *Total Recall* does not stop recording when the hard drive reaches maximum capacity. If at any time the hard drive usage reaches 100% of the specified capacity at midnight on any day the oldest calls are automatically deleted until the hard drive capacity is reduced to 93%. During this process, the system will continue to record calls.

#### 9.6 System Shutdown

This procedure is accessed from the Options Menu (System Shutdown button).

Because *Total Recall* uses a database with active and open files, *Total Recall* must be properly shutdown before the power is turned off. *Total Recall* should always be shut down using the *System Shut Down Menu* within the *Options Menu*.

In the *Options Menu* press the <UP> arrow key until the *System Shut Down* button is highlighted. Press the <SELECT> key then highlight the OK in the confirmation box and press <Select>. Wait until you see a blank screen before switching off.

ISIE	1 Shorbown - Flease conn	N SHOTDOW	in - Flease commi
re vou	sure you want to do this?	sure you want	to do this?
		oaro you mame	LO GO LINO.
ac you	· · · · · · · · · · · · · · · · · · ·		
ao you			
ne you		<u>.</u>	1

## 10 Remote Manager Software

## 10.1 Introduction

Remote Manager is client software for Total Recall. Remote Manager is Windows compatible software that together with LAN or Dialup connection enables all the functions of Total Recall to be executed from the convenience of your office via a PC, calls from one or multiple Total Recall units, connected via either the LAN or a dialup connection using a modem can be searched, replayed, live monitored, tagged, notated and emailed. Recorded calls can be transferred from Total Recall to the PC either by "drag and drop" to a local folder or from archive DVD / CD. Remote Manager allows for the remote configuration of all connected Total Recall units from your PC, including optional Record on Demand settings. Remote Manager enables those users who do not wish to connect Total Recall to their LAN or a Dialup to replay calls from their archive media (CD/DVD).

## **10.2 PC System Requirements**

Remote Manager software is designed for use on a multimedia PC running Windows 98/ME/2000/NT4 or XP. Total Recall calls that are archived onto DVD or CD are stored in a compressed and encrypted data format that cannot be played on a multimedia PC without using Remote Manager software. The recordings can to be converted (de-encrypted) into .wav or .mp3 files.

Minimum system requirements.

- 100Mb free HDD space
- 128Mb RAM
- Display resolution 800x600, 256 colours
- Sound device and speakers
- LAN device or modem

## **10.3 Total Recall and Remote Manager Compatibility**

Total Recall (Linux) has evolved over time and new features have been added. Remote Manager software has also evolved and with these changes some are not backward compatible with Remote Manager software.

The table below gives the compatibility of all the software up to date. It is recommended that all Total Recall Linux units (Desktop & Rack models) are kept up to date this requires updating both Total Recall and Remote Manager software. These are available from the Reseller pages on the web site <u>www.totalrecallvr.com</u>.

Total Recall Software Version	Remote Manager Software	Date of Release
V4.11	V1.15	16 Oct 2003
V4.13	V1.15	21 Sep 2004
V4.14	V1.15	06 Oct 2004
V4.20	V1.17	16 Nov 2004

V4.23	V1.20	25 Nov 2004
V4.25	V1.20	15 Dec 2004
V4.28	V1.24	25 Feb 2005
V4.33	V1.28	24 May 2005
V4.56	V1.56	28 June 2006
V4.59	V1.59 & V1.59.1	8 Jan 2007
V4.59.1	V1.59 & V1.59.1	13 Feb 2007
V4.60	V1.60	15 Aug 2007

# 10.4 Installation

### Loading Remote Manager Software

*Remote Manager* Software is supplied on a CD together with *Total Recall*. To install, insert the CD into the PC drive, and follow the instructions on the screen. If the install does not start, manually select "SETUP" from the disk. Please check with your System Administrator prior to installing *Remote Manager*.

# 10.5 Configuring Total Recall for LAN or Dialup

Please refer to sections 8.5 and 8.6.

## 10.6 Add Total Recall

Please ensure that you have the IP address or dialup number and the password (PIN) before continuing to add a *Total Recall* to *Remote Manager*.

To add a *Total Recall* click on the *Add New Total Recall* icon, which will bring up the Add TR window.

elect the TAB for the typ	e of TR you would like to add
LAN Dialup Cascade	a)
To add a LANente and pres	Total Recall connected directly to the Ir the IPAddress, PIN and description of the TR ss the set button
• IP Address	0.0.0.0
🔿 Host Name	
PIN	
Description	
Base Port	10010
Manager firewall	
Authorized Channels	All Modify

### 10.6.1 LAN

Click the LAN tab to access the LAN IP Address entry box. Type in the unique LAN IP address of the *Total Recall* to be added, followed by the *Total Recall* PIN and a description. The PIN is the same as the *Total Recall* password and will give the user the same access rights as if the password was typed into the *Total Recall* unit. The description is a name that will identify the *Total Recall* unit to the user.

Clicking on the Set button will start the process of searching for and adding the *Total Recall* to the *Remote Manager* system.

Repeat this process to add more units.

#### 10.6.2 Host Name

Consult your Administrator prior to using the Host Name feature. If you are unsure about the host name operation it is suggested that you use the function described in the previous section.

The host name feature allows the Total Recall to be referred to by an alphanumeric name rather than an IP Address. Many people find this easier to remember. A Service called DNS or Domain Name Service provides the mapping between this alphanumeric name and the IP Address of the Total Recall. The network administrator will need to update the DNS to provide this mapping (or at least update the HOSTS file on the client machine).

🍰 Add TR		X
📼 Add Total Reca	1	
Select the TAB for the type	of TR you would like to add	
LAN Dialup Cascaded		,
To add a LANenter and press	fotal Recall connected directly to the the IPAddress, PIN and description of the TR the set button	
O IP Address	0 , 0 , 0 , 0	
<ul> <li>Host Name</li> </ul>	totalrecall1	
PIN		
Description		
Base Port	10010	
Manager firewall		
Authorized Channels	All Modify	
	Set Cancel	

### 10.6.3 Manager Firewall

This setting is only necessary when Remote Manager is behind a firewall, on an internal IP address, and the Total Recall needs to access the Remote Manager through that external firewall IP address. In this case the external address of the firewall should be entered in this field. An example is shown in the below.

👙 Add TR	
📼 Add Total Reca	II
Select the TAB for the type	of TR you would like to add
LAN Dialup Cascaded	
To add a 1 Carl LANenter and press	otal Recall connected directly to the the IPAddress, PIN and description of the TR the set button
O IP Address	0 , 0 , 0 , 0
<ul> <li>Host Name</li> </ul>	totalrecall
PIN	****
Description	TR
Base Port	10010
Manager firewall	203 . 217 . 22 . 65
Authorized Channels	All Modify
	Set Cancel

See the section on "When Remote Manager is behind a firewall" for more information.

#### 10.6.4 Dialup

Click the Dialup tab to access the Dialup entry box. Type in the number to be dialled to access the remote *Total Recall*, followed by the *Total Recall* PIN and a description. The PIN is the same as the *Total Recall* password and will give the user the same access rights as if the password was typed into the *Total Recall* unit. The description is a name that will identify the *Total Recall* unit to the user.

Clicking on the set button will start the process of searching for and adding the *Total Recall* to the *Remote Manager* system. Please note that this will dial the number specified, as *Remote Manager* needs to contact the *Total Recall* to complete this process.

Repeat this process to add more units.

#### 10.6.5 Cascaded

The cascade function is used when you wish to connect multiple *Total Recall* units together and access them via dialup using a single telephone line.

Click the Dialup tab to access the Dialup entry box. Choose the dialup host (this will be a *Total Recall* connected to dialup) and the IP address of the cascaded unit followed by the *Total Recall* PIN and a description. The PIN is the same as the *Total Recall* password and will give the user the same access rights as if the password was typed into the *Total Recall* unit. The description is a name that will identify the *Total Recall* unit to the user.

Clicking on the set button will start the process of searching for and adding the *Total Recall* to the *Remote Manager* system. Please note that this will dial the number specified, as *Remote Manager* needs to contact the *Total Recall* to complete this process.

Repeat this process to add more units.

### 10.6.6 Authorised Channels

The authorized channels section allows the administrator to restrict the channels of the **Total Recall** that the user will see when searching for calls. To modify which channels the user is authorised to see in a search click the Modify button next to the Authorised Channels bar.

elect the TAB for the	type of TR you	would like to add					
LAN Dialup Casca	aded						
To ac 😤 LANe and p	dd a Total Reca enter the IPAdd press the set bi	l connected directly t ress, PIN and descrip rtton	to the stion of the TR				
<ul> <li>IP Address</li> </ul>	0,	0,0	. 0				
O Host Name							Modify b
PIN						/	
Description							
Base Port	10010						
Authorized Channel	ls all		Modify				
Authorized Channel	ls all		Modify				
Authorized Channel	ls all		Modify				
Authorized Channel	ls all		Modify Set Cance				
Authorized Channel	ls all		Set Cance	2			
Authorized Channel	ls all		Set Cance	9	X		
Authorized Channel	is all	ized Channel	Set Cance	9	X		
Authorized Channel	ect Author	ized Channel	Set Cance	9	×		
Authorized Channel	ect Author	ized Channel	Set Cance	tor	×		
Authorized Channel	ect Author	<b>ized Channel</b> Iser will be able t	Set Cance	al distance of the second seco	×		
Authorized Channel	ect Author hannels the u el 1	ized Channel ıser will be able t	Set Cance	el lor	×		
Authorized Channel	ect Author hannels the u el 1 el 2 el 3	ized Channel ıser vvill be able t	Set Cance	tor	*		
Authorized Channel	ect Author hannels the u el 1 el 2 el 3 el 4	ized Channel Iser will be able t	Set Cance	tor			
Authorized Channel	ect Author hannels the u el 1 el 2 el 3 el 4 el 5	ized Channel Iser will be able t	Set Cance	tor	*		
Authorized Channel	ect Author hannels the u el 1 el 2 el 3 el 4 el 5 el 6	<b>ized Channel</b> Iser will be able t	Set Cance	tor	*		
Authorized Channel	ect Author hannels the u el 1 el 2 el 3 el 4 el 5 el 6 el 7	ized Channel ıser will be able t	Set Cance	tor			

Clicking Set All will select all channels as authorised for control by the Remote Manager user. Clear All will deselect all channels, meaning the user has no authorisation to replay calls or modify settings. Channels may be designated authorised or unauthorised individually by clicking the check box next to the appropriate channel. A tick in the box means that the channel is authorised, whereas a blank box means that the channel is unauthorised. By default, all channels are authorised.

## 10.7 Connection

To connect to a unit using *Remote Manager* either by LAN or dialup click on its icon in the tree. If connection is via dialup the number will automatically be dialled. When the connection is

completed the icon will change to show that the connection is complete. If the connection is via LAN there is no change of icon. After connection *Remote Manager* will operate the same for LAN or Dialup.

## **10.8** Configuration

**Remote Manager** will allow full configuration of each **Total Recall** unit that has been added to your **Remote Manager** system where you have administrator rights. All parameters that can be set using the **Remote Manager** configuration are saved to the **Total Recall** unit. To begin configuring a **Total Recall**, click on the TR Configuration TAB and the **Total Recall** you wish to configure.

### **10.8.1** Channel Configuration

Each channel is separately configurable. Click the + sign next to the *Total Recall* description and this will drop down the channels available for configuration.

Total Recall Remote Manager			
File Help			
1. 🌫 🐧 🗇 🛆 🧶			August 29, 2005 11:34:07 AM
Monitor Playback calls TR Configuration Ex-	ent Log		
😥 TR - chris 🖻 😤 Total Recall One	Mupdate TR Configuration		
- 2 2() - 2 3()	Channel Archive Network General Time Date A	X0D Agents	
- 9 4()			
	Enable Monitoring		
	Trigger Type	VOK #	<b>v</b>
~~~	Beep Tone	Off	<u>.</u>
	ROD mode	Record by Default	×
	Agent Name		
	Charrier Description		
			Restore Previous Apply

Using the drop down boxes in the configuration window will allow you to configure the trigger level, tone insertion, channel description and Record on Demand settings. Clicking on the Enable Monitoring check box will toggle if the channel can be monitored. Click on apply before moving on to the next channel to save channel settings to the *Total Recall* unit.

Multiple channels can be configured simultaneously by highlighting the required channels. Change the channel configuration as previously explained, and click on the Apply button to save the same configuration to all channels. To highlight all channels click on the first channel to be configured, then while holding the shift key click on the last channel to be configured.

#### 10.8.2 Archive

The archive tab will allow you to set automatic archive, archive device and archive reminder parameters.

To change the archive period click in the text entry box and type your selection using your keyboard. To change the archive period, choose your selection from the drop down box using your mouse. Click the apply button to save this configuration to *Total Recall*.

🚨 Total Recall Remote Mana	ager	
File Help		
<b>1. ⇒ 11. % ⊉</b>		14:50:09
Monitor Playback calls TR Config	uration Event Log	
TR - Chris Home     ■ IN under desk     ■ 1(Back Office)	Update TR Configuration	
<ul> <li>2(Sales)</li> <li>3(Accounts)</li> <li>4(A/arabauca)</li> </ul>	Channel Archive General Time Date	1
• 4(**arenouse)	Enable Auto Archive	
	Archive Period	1
	Archive Period Type	Days
	Archive Device Type	CD
	Next Archive Date	5/09/2004
	Enable Archive Reminder	
	Remind when disk is full by %	50
		Restore Previous Apply

### 10.8.3 General

The general settings tab allows you to change the Administrator Password, User Password, Recorder ID, VOX Timeout, Minimum and Maximum recording length and the recording period.

🏯 Total Recall Remote Manag		
File Help		
1, 📫 🛍 🍫 🔊		14:54:26
Monitor Playback calls TR Configura	ation Event Log	
TR - Chris Home TR under desk 1 (Back Office)	Update TR Configuration	
<ul> <li>2(Sales)</li> <li>3(Accounts)</li> <li>4(Warehouse)</li> </ul>	Channel Archive General Time Date	
	Administrator Password	
	User Password	
	Recorder ID	7
	VOX Timeout	9
	Min Recording Length(sec)	0
	Max Recording Length(min)	5
	Use Recording Period	
	Start Time	08:30:00
	End Time	19:00:00
		Restore Previous Apply

### 10.8.4 Passwords

A password is required to access functions of *Total Recall*. You must have administrator access to change passwords. To change the password of the *Total Recall* unit click on the key icon in the General Settings Tab and enter the new password into the field provided. You will be required to confirm the password. Please ensure that you keep the passwords in a secure location.

### 10.8.5 Recorder ID

The recorder ID should be set as a unique three-digit number that is used to identify the *Total Recall* unit. To change this setting simply click in the Text entry box and type your selection.

### 10.8.6 VOX Timeout

If VOX is set as the recording trigger, VOX Timeout will determine the maximum length of quiet time the recording will continue before being terminated. This ensures that if a call has ended and the phone is not hung up properly, the recorder will not continue to record silence.

VOX Timeout settings can be between 2-15 secs, and applies to all channels that have the Trigger set to VOX.

In the event that an active call is put on hold, and there is no "music on hold" being played, then the recording will terminate according to the VOX Timeout setting. When the call recommences, the VOX trigger will immediately open and start a new recording so that the complete conversation is captured across two recordings.

The default VOX Timeout setting is 15 seconds. To change this setting click in the text entry box and type your selection.

<u>Note</u>: Whatever the VOX Timeout setting, that length of time must be allowed between the termination of one call and the start of the next call. If the next call starts within the VOX Timeout setting, both calls will appear as one call record on the database, i.e. two calls appear as one continuous call.

## 10.8.7 Minimum Recording Time

The Minimum Call Length setting can be between zero and ten seconds in increments of one second, and applies equally to all channels. The call will initially appear in the Logging Menu on the **Total Recall** being configured, but if the call length is less than the Minimum Call Length setting then the call will be automatically deleted. The default setting is zero meaning that no calls will be deleted. **Extreme care needs to be taken with this setting as it is normal to record all calls and only under very specific circumstances (ex noise spikes external to the recorder causing frequent and unwanted false recordings) that this setting would be changed from the default.** 

#### 10.8.8 Maximum Recording Length

The Maximum Call Length setting can be between one and sixty minutes in increments of one minute, and applies equally to all channels on the *Total Recall* being configured. If a call reaches the maximum length setting, the call record will be terminated at that point, and then a new record will immediately open. This new record will be indicated by the word "Continued" in the "Number" field. If the "Number" field has DTMF digits displayed, then the number will be followed by (....) to indicate the call is a continuation.

This function enables very lengthy recordings (for example, radio monitoring) to be presented as a series of recordings in manageable length sizes. The default Maximum Record Length setting is 60 minutes.

### **10.8.9 Recording Period**

Total Recall can be programmed to record only between predetermined times.

With Recording Period activated and if the time is outside the selected times, the screen below is displayed on the *Total Recall* in the absence of recording.

Not Recording	
Currently only recording from 12:30 - 19:00	
	au l

## 10.9 Record on Demand (ROD) Agents

ROD agents are user accounts for the Total Recall Record on Demand software. A user cannot log in to a Total Recall unit with TR ROD until a user account has been set up in Remote Manager. The ROD Agent list is stored on the Total Recall unit, hence only users with administrator access may add or modify ROD agents.

### 10.9.1 Adding ROD Agents

To add a new agent, click the Add Agent button in the ROD Agents menu. A new menu will appear, prompting the user to add an Agent Name and Password. These should be unique for every user of the TR ROD software. The language displayed by TR ROD for each user may also be configured in this menu. To save the new ROD agent settings, click Ok in the Add Agents menu, followed by Apply in the ROD Agents menu. **You must click Apply before any changes will take effect.** 

F Total Recall Remote Manage		
He Heb	With Fuertue	August 29, 2005 11:32:12 AM
	Update TR Configuration      Orrel Active Network General Time Date ROO Approx     Nonline      Notice      N	Att Apre Smoot Aprel Carge Festival Carge Larguage
	Pa	Redue herotos Apply

### **10.9.2** Other ROD Settings

In the ROD Agents menu, the administrator has the option to:

Remove individual agents from the Total Recall ROD Agent list, by highlighting an agent and clicking the Remove Agent button, followed by clicking the Apply button.

Remove all agents from the Total Recall ROD agent list, by clicking the Remove All button, followed by clicking the Apply button. If no agents are configured on the Total Recall unit, then TR ROD will not be able to connect to it.

Change the password for an individual agent, by highlighting the user to be modified, and clicking the Change Password button. A new menu will appear where the new password may be entered and confirmed. This change may be saved by clicking Ok in the new password menu, followed by clicking Apply in the ROD Agents menu.

Change the display language for an individual agent, by highlighting the user to be modified and clicking the Change Language button. A new menu will appear with a drop-down list of available languages. Select the desired language and click Ok in the change language menu, followed by Apply in the ROD Agents menu.

#### **10.9.3** Allow ROD Phone Key

Alternatively, users can access Record on Demand features by entering a pre-selected DTMF code on their phone keypad. To activate this feature, select the "Allow ROD Phone Key" check box. This will then open a field where you can customise a two-digit DTMF code for keeping or discarding a current call, depending on your ROD Mode settings (See section 11.5 of this manual for further detail).

Users can choose to keep or discard a current call, or stop and start a recording (dependant on the ROD Mode settings) by pressing \*, then their code on the phone keypad while a call is in progress.

👙 Channel Configuration		3
Channel :	1	
Trigger :	VOX 4	
Monitor :	On	
Beep :	Off	
ROD Mode :	Record by Default	
🗆 Allow ROD Phone Key		
ROD Phone Key	11	
Apply App	Ny All Cancel	

# 10.10 Monitoring

Total Recall Remote Ma	inager																				
1.3.0.4.2.0																(	Augu	ist 29	9, 200	5 11:	39:10 AM
Monitor Playback calls TR Cor	nfiguration Event Log																				
a Total Recall One	* Konitor c	urrent	call																		
-92	Call Properties									L AS	id facto										
0 4 0 5	Number :				3																
	Call Direction :																				
	Start Time :				a.																
	Duration :																				
	Overnel ID :				14																
	Channel Name :				2																
	Stop Monitorin	•																			
	Live Monitor																				
	Chạn -																				
	Total Recall One		Ø																		
	Total Recall Two		Ø																		

### **10.10.1 Live Monitoring.**

**Remote Manager** has the facility to live monitor channels on all connected **Total Recall** units where monitoring has been allowed in the configuration. Notes can be added to a monitored call. To listen to an active channel either select the required channel from the tree to the left hand side of the screen or from the black "Live Monitor" panel at the bottom of the screen.

N.B. The "Live Monitor" panel will only contain the first 10 configured *Total Recalls*. To monitor more than 10 *Total Recalls* you must use the tree. **10.10.2 Channel Status.** 



## 10.11 Search & Playback Calls

#### 10.11.1 Search and Playback using an archive Media

For those users who do not wish to use the convenience of the LAN or Dialup functionality of *Total Recall*, can search and playback calls simply by inserting the archive DVD or CD into the drive on the PC and clicking on the drive icon in the directory tree on *Remote Manager*. All the functions described in this section can then be utilised to help narrow your search.

## **10.11.2 Searching Calls**

You can search and play calls from all **Total Recall** units that have been added to your **Remote Manager** system or either a DVD / CD Drive or (if calls have been previously saved to a local folder from an archived DVD / CD) from a Local Folder on your hard drive. Calls can be arranged by Date Sort by Date or Channel Sort by Channel by clicking on the appropriate selection.

#### Sort by Date

Calls will be arranged in a tree by Date and then by Channel. Clicking on a channel or date will set the criteria in the search options window. Clicking on "search now" will display only calls in the calls window relating to the search criteria.



#### Sort by Channel

This will arrange the calls in a similar fashion as Sort by Date except the tree will display the channel first and then the date.



#### **10.11.3 Loading Calls**

In the *Playback Calls* window click the + button beside the device you want to load calls from. Click *Search Now* and the contents of the device will be displayed on the screen. It is then possible to use the search criteria to narrow the search for the desired call.

#### **10.11.4 Searching for Calls**

You can search by date, time, channel, phone number, call length, note keyword, call direction or any combination of the above. If you want to reduce the number of calls found, simply refine the search criteria, click the *Search Now* button and the results of the search will be displayed. 1000 calls will be displayed and clicking the more key will display the next 1000.

Search For Calls	
TR time Mgr time Date from : Date to : Time from : Time to : Search Now	Search Options Channel Phone Number Call Length Call Direction Call Direction Local Folder

## 10.11.5 Search by Date

Click the Date From: icon and highlight the start date for the search. Similarly select the Date To: icon for the end date.

Date from :	Ī		🥵 c	aler	ndar	~			X
Date to :	19		<		05	Sep 2	004	(	~
Time from :	0		S	м	F	s			
Time to :	0	_	28	29	30	1	2	3	4
Time to .			5	6	7	8	9	10	11
Search	1 Now		12	13	14	15	16	17	18
			19	20	21	22	23	24	25
Nete (TD)   Time			26	27	28	29	30	1	2
Date(TR) Imm 5 Son I14:5	8(TR) L€ 7-ne loc	angtr	3	4	5	6	7	8	9
5 Sep   14.5	7:20 UL	2.00.4							
5 Sep   14.5	7014 UL	J:UU:4		Toda	~			None	
5 Sep  14:5	6:30  00	J:01:2		Toua	y			NOLIC	

## 10.11.6 Search by Time

Click the Time Range: O icon and move the sliders to define the start and stop time of the search.

Date from :	🙎 Set time range 🛛 🗙
Date to : 📑	From : 08:30:00
Time to :	To: 17:30:00
Search Now	Interval : 9 hrs
ate(TR) Time(TR) Lengt Sep 14:57:28 00:00: Sep 14:57:14 00:00:	Reset OK Cancel

#### 10.11.7 Search by Channel

Click on the *Channel* check box and enter the number of the channel you wish to search in the text entry box.

#### 10.11.8 Search by Phone Number

Click on the *Phone Number* check box and enter the number or part of the number you wish to search in the text entry box.

#### 10.11.9 Search by Call Length

Click on the *Call Length* check box. Click the icon and set the Call Length using the sliders. Set the minimum and maximum call length to be searched.

Call Length	
Set min and max call length  🗙	
b/w 3 mins and 15 mins	
Reset OK Cancel	Recorde

### 10.11.10 Search by Note Keyword

Click on the *Note Keyword* check box. Type the keyword. **10.11.11 Search by Call Direction** 

Click on the Call Direction check box. Use the drop down menu to make your selection.

## 10.12 Modify Local Folders Window

This window is used to create and modify Local Folders that will be used to store call records. Once a Local Folder is created the Local Folder will appear in the Playback Calls Window.

Calls in the Calls List can be highlighted and dragged into a folder in the *Modify Local Folders* window for storage on the hard drive.

To create a local folder simply click on the ICON and create a new folder or select the folder you wish to use to store your calls.

## **10.13** Replaying a Call

With the call data information loaded on the screen, double click on the call you wish to play or click on the call and then click the play button  $\triangleright$ .

A Slider Bar located beneath the call window indicates call progress and the counter shows the exact time of the call. At any time the call can be paused by clicking the Pause Button  $\blacksquare$  or clicking the Stop Button will stop the call  $\blacksquare$ . Clicking the Stop Button will reset the Slider Bar back to the beginning of the call. At any time the progress of the call can be moved forward or taken back by placing the cursor on the Slider Bar and dragging it to the left or right. This facility, along with the call counter/timer makes for quick and accurate replay of important parts of a call.

Other control buttons include save the recording	H, add or modify a note about the recording
${ig {a}}$ and customise the call table contents ${old { m In}}$ .	



## 10.14 Save the Recording

To save a single call to your local hard drive, first highlight the call in the Call Play Window and then click the  $\blacksquare$  icon. Choose the local folder you wish to save the call to and select whether to save the call as an mp3 or as a .wav file.

## **10.15** Add or Modify a Note

Highlight a call (or a selection of calls) and click the  $\boxed{100}$  icon. The following screen will be displayed.



Type in any notes you require and click *OK*. When searching for calls you have the option to search by keywords entered into the call notes.

## **10.16 Delete Calls**

This function is used to delete calls from local folders only. Highlight a call (or selection of calls) you want deleted and click the selected call(s). This will not delete calls from a *Total Recall* or DVD / CD.

# 10.17 Customising Call Table Columns

You have the option to customise the information displayed in the Call Table.

Date(TR)	Time(TR)	Length	Number	Direction	Channel	Notes	Recorde	
05 Sep	14:57:28	00:00:26		All	2		7	^
05 Sep	14:57:14	00:00:40	5	In	3		7	
05 Sep	14:56:30	00:01:24		All	4		7	]
05 Sep	14:56:30	00:00:42		All	3		7	]
05 Sep	14:56:30	00:00:24		All	2		7	
05 Sep	14:56:30	00:01:24		All	1		7	
05 Sep	11:38:23	00:02:04		All	4		7	
05 Sep	11:38:23	00:02:04		All	3		7	
05 Sep	11:38:23	00:02:04		All	2		7	1
05 Sep	11:38:23	00:02:04	781	In	1		7	1
05 Sep	10:50:02	00:02:55	3	In	4		7	1
05 Sep	10:50:02	00:02:55	6	In	3		7	
05 Sep	10:50:02	00:02:55	509	In	2		7	×

Select the *Customise Table Columns* icon **I** and the following screen will appear:

	×
🔚 Customize Display Table	
Check the column names for display.	
Date(TR)	<u>^</u>
Time(TR)	
Date(local)	
Time(local)	Ξ.
✓ Length	
Vumber	
✓ Direction	
Status	
Channel	<u> </u>
	OK Cancel

Choose the information you want displayed in the Call Table by placing a tick in the box beside each option and click *OK*. The Call Table will be refreshed with your selected information.

You are able to change the width of a column in the Call Table by placing the cursor between the *column name* buttons and dragging the column to the required width. The position of the columns relative to each other can also be changed. Place the cursor on the *column name* button and drag the whole column to a different position in the table.

# 10.18 Accessing Total Recall through a Firewall

While it is not possible to describe solutions for all different network setups it is hoped that from this simple example, a network administrator will be able to learn how to provide access to a Total Recall unit through a firewall.



Here Total Recall is connected on an internal network with an IP Address range of 192.168.3.x. The Total Recall has the address 192.168.3.109. There is a firewall which provides access to the internet. This allows other company servers to be accessed using a public IP Address in this case 203.10.10.10. The Firewall has the internal address 192.168.3.252.

PC's on the internal network should be able to access the Total Recall units directly via the LAN.

A client would like to be able to connect to the Total Recall over the internet from home.

The network administrator should follow the following steps:

• Configure the Total Recall's IP Address and set the firewalls internal address as its gateway.

Network Setting					×
🗌 Use Dialup					
Use DHCP					
IP Address :	192	168	3	109	
Netmask :	255	255	255	0	
Gateway :	192	168	3	252	
Host Name :					
Max Session :	05				
Session Duration :	2 hou	rs			
RMI Port :	1099				
Port Base :	10010	)			
Advanced	ок		Cancel		

- Install Manager on one of the internal network PC's
- Add the Total Recall to the manager as shown in the diagram

👙 Add TR		X
📼 Add Total Recal	I	
Select the TAB for the type	of TR you would like to add	_
LAN Dialup Cascaded		
To add a T LANenter t and press	otal Recall connected directly to the he IPAddress, PIN and description of the TR the set button	
<ul> <li>IP Address</li> </ul>	192 . 168 . 3 . 109	
🔵 Host Name		
PIN	****	
Description	TotalRecall	
Base Port	10010	
🔲 Manager firewall		
Authorized Channels	All Modify	
	Set Cancel	)

• Use the internal manager application to modify the Total Recall's host name as shown in the diagram below.

(NB: To connect to the TR externally through firewalls you must connect using a host name rather just using an IP Address. Remote managers on the internal network can connect using IP address rather than host name.)

👙 Total Recall Remote Manager		
File Help		
1, 🛱 🗓 🍫 🕸 🧶		June 14, 2006 5:34:52 AM
Monitor Playback calls TR Configuration En	vent Log	
e®TR - hugh ⊕ि TR	Update TR Configuration	
	Channel Archive Network General Time Date	ROD Agents
	Obtain an IP address automatically (use DF	ICP)
	Use the following IP address	
	IP address:	192 . 168 . 3 . 109
	Subnet mask:	255 . 255 . 255 . 0
	Default gateway:	192 . 168 . 3 . 252
	Host Name :	totalrecall1
	Max Session :	5
	Session Duration (Hours):	2
	Port Base :	10010
		Restore Previous Apply

{As a small aside at this point the system administrator could add the Total Recalls IP Address into the internal DNS server so that Remote Manager clients running on the internal network could access Total Recall using the name totalrecall1 instead of having to remember the IP address. However that is not necessary for our particular example.}

• Configure the Firewall by forwarding the following ports:

Forward port 10010, & 10011 to the Total Recall's address 192.168.3.109 (NB: 10010 is the configured Port Base in our example).

Note that this is a TCP connection.

In addition if you want to transfer files to your local folders, or email files from the Total Recall you will need to port forward FTP (port 21) to this address as well:

• Clients machine must be able to resolve the name totalrecall1 to the Firewalls externally visible IP Address.

One simple way to do this is to edit the hosts file... EG: On Windows 2000 or Windows XP modify the file C:\WINNT\system32\drivers\etc\hosts to contain the line

203.10.10.10 totalrecall1

You can ensure that this is correct by typing: "ping totalrecall1" at a command prompt.

- Install Remote Manager on clients home machine
- Add the Total Recall, making sure you use the hostname and not the IP Address as shown in the following diagram:

👙 Add TR					
📼 Add Total Recal	📼 Add Total Recall				
Select the TAB for the type	of TR you would like to add				
LAN Dialup Cascaded					
To add a Total Recall connected directly to the LANenter the IPAddress, PIN and description of the TR and press the set button					
O IP Address	0 , 0 , 0 , 0				
<ul> <li>Host Name</li> </ul>	totalrecall1				
PIN	****				
Description	totalrecall1				
Base Port	10010				
Manager firewall					
Authorized Channels	All Modify				
	Set Cancel				

Clients home remote manager should now be able to access the Total Recall on the internal company network.

# 10.19 When Remote Manager is behind a local firewall

In the previous example the client's Remote Manager was on an externally visible IP address. In this case the Remote Manager is on an internal IP address, trying to access a Total Recall which is external to the LAN.



An example of this situation is shown in the picture below:

In this case you will need to:

- Port forward UDP from port 10001 to the IP address of the machine running Remote Manager
- Port forward UDP from port 10002 to the IP address of the machine running Remote Manager
- In addition when you add the Total Recall to Remote Manager you will need to specify the external IP address of the firewall that it is sitting behind. Check the "Manager Firewall" check box and enter the IP address in the appropriate fields to the right of the checkbox.

👙 Add TR			
📼 Add Total Recal	I		
Select the TAB for the type	of TR you would like to add		
IAN Dialup Cassaded			
Dialup Cascaded			
To add a Total Recall connected directly to the LANenter the IPAddress, PIN and description of the TR and press the set button			
O IP Address	0 , 0 , 0 , 0		
<ul> <li>Host Name</li> </ul>	totairecall		
PIN	****		
Description	TR		
Base Port	10010		
🔽 Manager firewall	203 . 217 . 22 . 165		
Authorized Channels	All Modify		
	Set Cancel		

You should now be able to connect to the Total Recall.

## 10.20 Handling Multiple Remote Managers behind A local firewall

The situation is similar to that discussed in section 10.18 except that there are now 2 remote managers that need to access the Total Recall behind the same local firewall.



The first Remote Manager can be setup exactly as for section 10.18 i.e.:

- 1. Port forward UDP from port 10001 to the IP address of the machine running Remote Manager 2. Port forward UDP from port 10002 to the IP address of the machine running Remote Manager
- 3. Specify the Manager Firewall when adding the Total Recall.

For the second Remote Manager you need to tell it to use different ports and then forward these ports from the firewall. In the diagram the second remote manager is configured to use ports 10005, 10006. These ports are then port forwarded from the firewall as UDP.

Configure the second remote manager to use the different ports by accessing "Advanced..." from the File Menu. Then enter the port in the Manager Port Base field as shown below:

👙 Advanced Settings		×
Local IP Address:	192 . 168 . 3 . 25	
Manager base port	10005	
(	Load Default OK Cancel	)

The manager will now be using 10005 and 10006 (i.e. one higher than the configured base ports). In this way multiple Remote Managers can access the Total Recall through the same remote firewall.

## **10.21** Connecting through a VPN

A VPN allows all machines to appear as though they are on the same LAN segment, even though some may be accessed over the internet. This usually makes the configuration of Total Recall and Remote Manager simple.

One case which can complicate the situation is if the machine on which you are running Remote Manager has 2 IP addresses. By default Remote Manager will use the first IP address. If this is incorrect you can modify Remote Manager to us the alternative IP address. To do this select "Advanced…" from the file menu, then enter the desired local IP address for Remote Manager is the dialog.

👙 Advanced Settin	gs	×
Local IP Address:	<b>192</b> . 168 . 3 . 25	
	Load Default OK Cancel	

# **10.22** Limitations of Total Recall & Remote Manager with Firewalls

### **10.22.1 Transfer of Files**

Transfer of files is currently done using the FTP protocol on its default port. If two Total Recalls are behind the same firewall, it will not be possible to port forward FTP to both machines. The user will only be able to transfer files from the Total Recall which has FTP port forwarded to it.

### **10.22.2 Alternatives**

Where these limitations are unacceptable we suggest that you move to a VPN, or some sort of screen sharing technology to achieve your desired result (such as Microsoft's Remote Desktop Connection).

## 10.23 Monitoring & Playback no audio

I don't hear any sound when I attempt to remotely monitor or remotely playback a call from Remote Manager, however I can playback a call from Remote Manager on a local CD or in a local folder.

**NOTE**: This procedure should only be used after consultation with the network administrator for your network. The following steps are written for Windows XP. They will need to be modified for other operating system versions.

### **Case 1 RESOLUTION**

- I can't playback a call on Remote manager, it happens only on Windows XP.
- Please make sure it is not ticked the box on **Don't allow exceptions** on the XP Windows Firewall setting.

🐱 Windows Firewall 🛛 🔀
General Exceptions Advanced
Windows Firewall is helping to protect your PC
Windows Firewall helps protect your computer by preventing unauthorized users from gaining access to your computer through the Internet or a network.
📎 💿 On (recommended)
This setting blocks all outside sources from connecting to this computer, with the exception of those selected on the Exceptions tab.
Don't allow exceptions
Select this when you connect to public networks in less secure locations, such as airports. You will not be notified when Windows Firewall blocks programs. Selections on the Exceptions tab will be ignored.
🚫 🔿 Off (not recommended)
Avoid using this setting. Turning off Windows Firewall may make this computer more vulnerable to viruses and intruders.
Windows Firewall is using your domain settings.
What else should I know about Windows Firewall?
OK Cancel

## **Case 2 RESOLUTION**

STEP 1: Run dos command prompt and type the command "ipconfig"



**STEP 2**. For remote manager to work correctly there should be one and only one IP address. If there are two IP addresses monitoring and playback will not work correctly. The diagram below shows the situation where two IP addresses are configured.

🗠 Command Prompt	-	×
Microsoft Windows XP [Version 5.1.2600] (C) Copyright 1985-2001 Microsoft Corp.		-
C:₩Documents and Settings₩seikn.BACKUP>ipconfig		
Windows IP Configuration		
Ethernet adapter Local Area Connection:		
Connection-specific DNS Suffix . : IP Address		

**STEP 3:** If two IP addresses are shown (as in the diagram above) then you need to remove one of the IP Addresses in the following way:

Run Network connections by going Start->All Programs->Accessories->Communications->Network Connections as shown in the diagram below.





**STEP 4**: Double click on Local Area Connection to bring up the following dialog box:

eneral Support		
Connection		
Status:		Connected
Duration:		5 days 15:26:19
Speed:		100.0 Mbps
Activity		
	Sent — 🛃	Received
Packets:	50,126,377	89,803,943
Properties	Disable	

**STEP 5**: Click the Properties button to give the following dialog box

reneral	Authentication	Advanced	
Conne	ct using:		
<b>##</b>	AOpen AON-325	5 10/100M Fast Ethe	e Configure
This co	onnection uses th	ne following items:	
	Client for Micro File and Printe QoS Packet S Internet Protoc	osoft Networks r Sharing for Microso icheduler col (TCP/IP)	oft Networks
	Install	Uninstall	Properties
Trar wide	aption smission Control a area network p oss diverse interc	Protocol/Internet Pr rotocol that provides connected networks.	rotocol. The default communication
✓ Sho	w icon in notific ify me when this	ation area when con connection has limit	nected ed or no connectivity

**STEP 6:** Select Internet Protocol (TCP/IP) and press the properties button to bring up the following dialog box:

ierar ou can get IP settings assigned is capability. Otherwise, you nee e anoroniate IP settings	automatically if your network support ed to ask your network administrator fi
O Obtain an IP address autom	atically
Use the following IP address	×
IP address:	192.168.3.38
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	192.168.3.252
Obtain DNS server address	automatically
Use the following DNS served	er addresses:
Preferred DNS server:	210 . 9 . 128 . 12
Alternate DNS server:	210 . 9 . 128 . 13
	Advanced

**STEP 7**: Press the advanced button to bring up the following dialog box:

Settings DNS W	INS Options		
IP addresses		N	
IP address		Subnet mask	
192.168.3.38 192.168.1.123		255.255.255.0 255.255.255.0	
[	Add	Edit	emove
Default gateways:			
Gateway		Metric	
192.168.3.252		Automatic	
[[	Add	Edit	emove
Automatic metric			
Interface metric:			

**STEP 8:** Select the unwanted IP Address and press the remove button. The remaining IP address should be an IP Address, which is on the same network as the Total Recall. For example if the Total Recall is configured as 192.168.3.39 then use 192.168.3.38 as the main IP address for the PC. If in doubt which one to remove talk to your network administrator.

Press OK... and check that the PC only has one IP Address configured. This can be done by running "ipconfig" in the command prompt as described in steps 1 and 2 of this document.

NB: Only one IP Address is shown

Confirm that remote monitoring and playback now work by running Remote Manager.

# 11 Record on Demand Software

# 11.1 Introduction

Record on Demand is an optional license free software application that provides additional realtime functionality to Total Recall end users. Utilising an existing LAN connection, users can start and stop recording of a current call, control what calls on their line are recorded or not recorded, as well as having the ability to add notes to a current call – all controlled from a simple taskbar application on the users PC.

If a user requires Record on Demand without immediate access to a PC, this function can also be controlled through pre-determined codes entered on a users phone. This is configured on the Total Recall unit itself or in Remote Manager. See sections 8.1.4 and 10.7.1 of the manual for further details on the DTMF Record on Demand function.

To ensure the security of the Total Recall, Network administrators have the flexibility to tailor the users level of control with Record on Demand through specific unit settings, or through their Remote Manager software. These options are discussed in section 12.6 of this manual.

# **11.2 PC Requirements**

Record on Demand is designed for use on a multimedia PC running Windows 98/ME/2000/NT 4.0 or XP.

Minimum system requirements:

- 100MB Free Hard Disk space
- 128MB RAM
- Display resolution 800\*600, 256 colours
- LAN connection

# **11.3** Installation

Insert the TR ROD installation CD into the users PC. The installation wizard will auto run if the computer is configured to allow this. If this is not the case, run Setup.exe from your configured CD drive.

During installation, you will be given the option to:

- Install TR ROD to a folder other than the default
- Change the default location to store user files
- Alter the program name displayed in the Control Panel
- Create a desktop icon

Default settings should be sufficient for most users.

# **11.4 Running TR ROD for the first time**

## 11.4.1 Connecting to the Total Recall Unit

*Total Recall IP Address* refers to the unique network address of the Total Recall unit. This address may be accessed from the "Network" menu on the Total Recall unit itself, or from the "TR Configuration" menu in your Remote Manager software. (N.B. Remote Manager should be

setup and operational *before* installing TR ROD, as TR ROD Agents are added and managed through this software). If in doubt, contact your network administrator.

*Total Recall Channel* refers to the channel of the Total Recall unit that you wish to give the user limited control over. This is generally the channel that the user has connected to their phone. **TR ROD allows an agent limited control over one channel only.** 

*Total Recall Password* can either be the User or Administrator password for the Total Recall unit. Either password may be used to alter TR ROD configurations, so it is important that the Total Recall unit passwords (User or Admin) are not given to agents if they are not authorised to alter settings.

*Total Recall Port Base* refers to the port used to access the Total Recall unit. The port base, like the unit IP address, may be accessed from the "Network" menu in Total Recall, or the "TR Configuration" menu in Remote Manager. If in doubt, contact your network administrator.

## 11.4.2 Logging in to TR ROD

In the "Agent Name" drop down menu, the user should select their login name. (**N.B. agent login names and passwords are added using the "Remote Manager" software. Agents must be added before TR ROD can be utilised. This may only be done through Remote Manager).** Remote Manager should only be installed and configured on secure PC's operated by individuals who are authorised to monitor, search and play back calls.

For security, all users should have an individual login.

After selecting the appropriate login name and clicking "Login", the user will be prompted for their password. This will be the individual password nominated when setting up the ROD agent account in Remote Manager. (See Remote Manager Section for more information).

## 11.5 Using TR ROD – TR Unit Settings

Record on Demand settings may be modified for individual channels on the Total Recall Unit (via the Channel Settings menu), or via Remote Manager (from the TR Configuration tab).

These unit settings affect the way that the recorder will respond to the Record on Demand software, or activation of the DTMF phone key.

Channel	Trigger	Monitor	Beep	ROD
1	VOX 4	On	Off	Record by Default
2	VOX 4	On	Off	Don't Record by Default
3	VOX 4	On	Off	Add Notes Only
4	VOX 4	On	Off	Disallowed
5	VOX 4	On	Off	Record by Default
6	VOX 4	On	Off	Record by Default
7	VOX 4	On	Off	Record by Default
8	VOX 4	On	Off	Record by Default
				ОК

There are 5 channel options for Record on Demand:
## 11.5.1 Record by Default

Total Recall will record all calls unless the TR ROD user intervenes.

### 11.5.2 Don't Record by Default

The TR ROD user will be given the option to *only record a current call if they so wish*. The Total Recall unit will not record calls unless the TR ROD user intervenes.

## 11.5.3 Add Notes Only

The user with the TR ROD agent installed *may only add notes* to a current call – they will have *no control over whether a call is recorded or not.* 

## 11.5.4 Record Partial Calls

In this instance, the Total Recall machine does not record calls by default. A user can start and stop recording during the call as many times as they wish. The only sections of the call that are recorded are the periods where a user has activated the recorder.

### 11.5.5 Disallowed

The TR ROD agent will have no effect on that particular channel. TR ROD users cannot add notes, nor will any control be given to retain or discard current calls. The Total Recall unit will record according to its VOX/Off Hook channel settings.

# **11.6 ROD Channel Trigger**

Users can select to control their call recordings using the TR ROD software <u>only</u>, rather than relying on VOX or Off Hook triggering (these terms are explained in section **8.1.1** of the manual). When the channel trigger is set to ROD, recording on the configured channel <u>can only be initiated</u> and terminated by selecting 'Record' and 'Stop Recording' with the TR ROD PC software.

# 11.7 Login, Logout and Refresh

**Login** needs to be selected after a user chooses their individual Agent name. Following this a window will appear prompting the user to enter their password in order to utilise TR ROD. For security, users have to re-login after any TR ROD configuration changes, or after changes to the channel settings on the Total Recall unit.

**Logout** should be selected to finish a users session. For security, it is recommended that users log out of TR ROD if they are not present at their PC, to prevent unauthorized control over the Total Recall channel. Users need to logout to allow another user to log back in with a different agent name and password.

**Refresh** may be used if new agents have been added through Remote Manager whilst TR ROD is running. Selecting Refresh will update the agent list to the most current record stored on the Total Recall unit.

### **11.7.1** Configuration

Similar to the connection process when TR ROD was first installed, this menu allows *authorised* personnel to do the following:

Total Recall IP Address refers to the unique network address of the Total Recall unit. This address may be accessed from the "Network" menu on the Total Recall unit itself, or from the

"TR Configuration" menu in your Remote Manager software. (N.B. Remote Manager should be operational on the network manager's computer *before* installing or changing TR ROD, as Agent names and passwords are managed through this software).

Should the IP address of the target Total Recall unit be altered, the TR ROD agent will need to be re-configured (via this menu) in order to re-connect to the unit. This cannot be changed without a valid password (see below).

*Total Recall Channel* refers to the channel of the Total Recall unit that you wish to give the agent limited control over. The channel controlled may be changed in this menu, dependant on a valid password being given (see below).

*Total Recall Password* can either be the User or Administrator password for the Total Recall unit. One of these passwords must be entered correctly in order to change any TR ROD settings. **Either password may be used to alter the TR ROD configuration, so it is important that the unit passwords (User or Admin) are not given to users if they are not authorised to alter settings.** 

*Total Recall Port Base* refers to the port used to access the Total Recall unit. The port base, like the unit IP address, may be accessed from the "Network" menu in Total Recall, or the "Network" menu in Remote Manager. If in doubt, contact your network administrator.

## **12** Preventative Maintenance

**Total Recall** needs regular maintenance to ensure its performance is maintained. As with any computing device **Total Recall** has a fan that provides airflow across the processor to keep it cool and a filter to ensure that the air is clean. Every 3 months a message will appear on the **Total Recall** screen to indicate that filter maintenance is required. The filter will need to be washed in warm soapy water and then rinsed thoroughly and allowed to dry completely prior to being replaced. New filters are available from your supplier. After maintenance is complete select OK to remove the message.

# **13** Troubleshooting Tips

### a) There is a loud and continuous tone sounded when using the control keys.

The soft key may be stuck against the casing. Just move the key to release it.

### b) The unit does not power-up.

It is possible that the fuse holder may have become loose during transit or the fuse is blown. Disconnect the power cord, remove the fuse holder at the rear of the unit and check the fuse is OK. Power-up again.

### c) The password has been forgotten.

Call your dealer for support.

### d) I have changed the password and now it will not let me go to the Options Menu.

You have changed the User Password. The User has no access to the Options Menu. Use the previous Password this will still be Administrator level and this will give you access to the Options Menu.

# e) The recorder is switched on with channel lines connected. The *Logging Menu* shows "C" in the status column and the LEN (Length) meter is running, but no calls are active.

The channels are probably set to Off-Hook. Enter the *Options Menu* and change the Line Trigger setting from Off-Hook to VOX 4.

# f) During the process of recording a call, the call appears to be cut into multiple records, each of a fixed length.

Check the *Maximum call length* setting in the *Options Menu (Call* button). If a call reaches the maximum length setting, it will be cut and then restarted as a new (continuation) record, with no loss of recording between the cut and restart.

To avoid cutting the call into multiple records, increase the Maximum call length setting.

# g) During the process of recording a call, the call appears to be cut into multiple records, each of a varied length.

Check the VOX level settings of the channel(s) concerned. It is possible that the VOX level threshold is too sensitive in detecting silence on the line. For example, "VOX " detects a high signal with associated low sensitivity, so if the voice at either end is not loud enough or is not talking continuously, the recorder may detect a period of silence and cut the call.

At the same time, check the VOX Timeout setting in the Options Menu. If the VOX level threshold is too low, the calls will be cut based on the VOX Timeout setting. A combination of changing the Trigger setting and increasing the *VOX Timeout* setting should eliminate the problem of cut calls.

# h) The call I am replaying finishes in the middle of the call, and I know that there was an extended conversation.

This call has most likely been "cut" as determined by the *Maximum call length* setting. Check the channel number of the call in the *Search Menu*, then search for the next call at the same channel number and you will find the remainder of the call. The second part of the call should be indicated by a (cont...) entry in the number field that indicates a continued call.

# i) When making a telephone call, I can hear the remote party very clearly but when I play back the call, it is hard to hear the remote party.

This is associated with the AGC (Auto Gain Control) built into the recorder.

The recorder is designed to "record" all the sounds heard on the line, both Transmit (Tx) and Receive (Rx). This includes background noise, line noise and ambient noise.

The recorder "records all audio noise", and cannot distinguish between "background" and "foreground" noise. This problem may be compounded if the recording is made via Handset Adapters. In this case, the "background noise" fed back through the microphone of the handset is combined with the Receive (Rx) signal from the "Remote Party", and therefore what appears to be a clear voice to the listener may sound soft or hard to hear upon replay.

This is a function of the AGC, which "averages out" all the audio signals detected during the recording.

If on the other hand, there is no background noise, then the "Remote Party" will sound very clear and loud upon replay.

# j) I am dialling a number and I can hear the tones on my phone, but no DTMF number appears in the *Logging Menu* next to the (C) Current Call.

If recording via a handset adapter, it may not be possible for the recorder to detect DTMF tones. If your phone system transmits a proprietary signal to the PABX, and the PABX converts this

signal to DTMF tones, then the recorder cannot detect the DTMF as it is not present at the point of recording.

The recorder will detect DTMF tones, provided they are on the line at the point of recording.

# k) I have selected *Archive* and now my keyboard has locked-up and the recorder does not seem to be working.

The archive process takes time. Writing to a DVD or CD is a time-consuming process. During the archive process, the <MENU> and <SELECT> keys will be disabled and you will have no access to other functions of the recorder.

DO NOT SWITCH OFF THE POWER. Although you have no access to the recorder, it will still be recording on active channels, and it will still be archiving calls to the disk. It is recommended to start the archive process during times of low-usage, or when you do not need to gain further access to the recorder for a period of time.

# 1) I have archived calls to a DVD or CD but the "% Used" indicator on the *Logging Menu* remains at the same level.

The *Archive* "Do you want to remove the calls you archive?" option (only available with Administrator Access) will archive calls to disk and either delete them from the hard drive (*Yes*) or keep them on the hard drive (*No*). If you choose to keep the archived calls on the hard drive the "% Used" indicator will not change. If you choose to delete the archived calls from the hard drive, after archive then the "% Used" indicator will decrement.

# m) I'm trying to set the IP Address of the Total Recall but pressing OK brings up the error message "Update Network Settings Failed"

Chances are the IP address that you are trying to use is already used by some other computer or device. You will need to find an IP address that isn't used by asking your Network Administrator. The best way to check if an IP address is used is to logon to a PC that is on the network. Then try pinging the IP address. Do this by starting a command shell and typing, "ping <IPADDRESS>" Where <IPADDRESS> is something like 192.168.3.10 If something responds that IP address is in use.

# n) When I try to play, save or email a searched call, I get a message saying "You are not authorised for this channel"

The channel that the call originated on has been disallowed for your user account. This can be altered by clicking User Preferences, then Properties, followed by the TR Connectivity tab, then Properties. The Authorised Channels menu is at the base of the Modify Total Recall Settings menu. Note that only an Administrator account can access these menus.

# 14 Specifications

Number of Channels:	4, 8, 12 or 16. Desktop Unit		
	4, 8, 12, 16, 20, 24, 28, 32 Rack Mount		
	(Channel upgrades available 4 or 8ch)		
Security:	Password (2 levels)		
Coding Method:	8kbps High Quality Vector Quantisation providing up to 60,000 hours on-		
5	line database of recordings.		
Line Impedance:	(Aus & USA) 6 K ohm		
(AC)	(NZ) 12 K ohm		
	(EUR) 67 K ohm		
Line Impedance	(Aus/NZ/Europe) = 1M  ohm		
(DC)	(IISA) 10M ohm		
(DC) Eroquonov Dosnonso:	(05A) 10W 0IIII 200 2400 $H_{7}$ / 0.5dBm		
Signal to Noiso:	24dDm		
Signal to Noise:	-54uDifl.		
Cross-taik:			
Record (PIP) Tone:	1.4kHz. Channel and Level selectable.		
	(Off, -33dBm, -2/dBm, -21dBm)		
<b>Recording Triggers:</b>	Off-Hook, VOX (adjustable), OFF VOX 6, -20dBm, VOX 5, -24dBm, VOX 4, -28dBm, VOX 3, -32dBm,		
	VOX 2, -36dBm, VOX 1, -40dBm		
Internal Storage:	Hard Disk Drive.		
<b>DVD Drive:</b>	IDE uses DVD+RW media for Archive.		
Display:	130mm x 97mm TFT backlit LCD		
<b>Power Requirements:</b>	90VAC - 260VAC, 50Hz - 75Hz		
	50 Watts Maximum		
Max Line Voltage:	Tip to Ring; 250VDC		
6	Tip to Ring : 150VAC rms		
	Tip to Ground: 1500VDC		
	Tip to Ground : 1000VAC rms		
Analogue Ports:	4 8 12 16 20 24 28 or 32		
	RI11C/RI12/RI14 (PSTN) line interface ports		
	4-channel DSP interface uses nins 3/4		
	8-channel DSP interface uses pins 3/4 and 2/5		
	Line Out Lack (3 5mm stereo phono)		
	Haadnhana Jack (3.5mm storeo nhano)		
	57Khng Hardwara Handshaka		
Client Software.	Demote Manager & TP Record on Demand (Windows)		
Chefft Software:	05/08/NIT/ME/2000/VD/Victo)		
C	93/96/INT/IVIE/2000/AP/VISta)		
System Software:	Field upgradeable via CD Media		
Operating System:	Linux Fedora Core 2		
Desktop Unit Size :	365 X 3/5 X 165 mm.		
	$14\frac{1}{2} \times 14\frac{3}{4} \times 0\frac{1}{2}$ .		
Desktop Unit Weight:	6 kg net		
	13 lb net		
Rack Mount Size:	480 x 230 x 220 mm (5U)		
	19" x 9" x 8½"		
Rack Mount Weight:	10 kg net		
	22 lb net		
Desktop Enclosure:	UL 94V-0 ABS plastic		
<b>Rack Mount Enclosure</b> :	Zinc Passivated steel with Powder-Coated face panel.		
	Standard EIA 19" Rack configuration (5U)		

Specifications subject to change without notice.

# 15 Appendix A Glossary of Terms

	Private Automatic Branch
FADA/FDA	Exchange/Private Branch Exchange
	Distribution Frame, normally used in a
MDF	communications room to distribute and
	patch cabling.
DTMF	Dual Tone Multi Frequency
Extension	Normally referred to as the office side,
Side	station side or handset side of the PABX.
Tree 1	Incoming telephone phone lines, either
Irunk	analogue or digital.
Handaat	The base of the desktop phone equipment
Handset	and cradle for the hand-piece.
	Hand-held assembly that includes
Handpiece	microphone (mouthpiece) and speaker
-	(earpiece).
	A device to tap the audio signal from the
Handset	handpiece of a telephone handset. Also
Adapter	referred to as a Handset Patch, or Logger
_	Patch or Handset Splitter.
Been Tone	A tone that sounds every 15 secs to alert
Beep Tone	that the call is being recorded.
	Caller Line Identification, Caller ID, or
CLI/CLIP	Caller Line Identification Presentation.
Status Linc	Information line displayed at the bottom
Status Line	of each of the User Menus.
UPS	Uninterruptible Power Supply
DSP	Digital Signal Processor

# 16Appendix BLCD Screen Messages

Date	The date the call was placed or received.	
Time	The start time of the call.	
Len	The length or duration of the call, in seconds.	
Number	The inbound or outbound call number.	
><	The direction of the call is displayed if either	
	CLI or DTMF has been captured.	
CH#	The channel number associated with the call.	
ST	The status of the call (see below).	

The possible messages in the status column are as follows:

*	=	The call is tagged.
С	=	The call is current.
		(i.e. it is happening at this time).
Х	=	The call has been damaged.
А	=	The call has been archived.
Μ	=	Monitoring this live call.

If a call is being replayed the status column will indicate the following:

>	=	Playing
>>	=	Fast Forward
>>>	=	Skipping Forward
<<	=	Rewinding
	=	Paused

### 17 Software Licence Agreement

#### COMSEC.TR SOFTWARE LICENCE AGREEMENT

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