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Technical specifications
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Well known as an important industry innovator Maycom has achieved another major breakthrough in digital audio capture. With a highly appealing and stylish design, fully featured but compact in size, the Maycom HandHeld offers rugged and reliable digital portable recording for both professional and consumer usage. The HandHeld is very easy to operate, doesn’t contain difficult features and is mainly meant for making high quality recordings. The HandHeld can be configured via the configuration editor for Windows, which makes it very easy and fast to configure a Handheld recorder. The HandHeld is equipped with an internal microphone, but it is also possible to connect one or two external sources like a CD-player, mixing console or your own high quality microphone. The main features of the HandHeld recorder are: Recording, Playback and USB file transfer between HandHeld and a computer.

- Superb audio quality
- MPEG-2 layer II and linear processing
- Removable compact flash card media storage
- Built-in high quality microphone
- Illuminated LCD display
- Operates on standard alkaline
- Rechargeable smart battery pack system
- Plug & Play USB computer connector

The Handheld recorder is based on the industry standard compact flash cards to store high quality, digital audio. The cards are robust, are able to operate in severe environmental conditions and can be changed very quickly. Audio recording capacity depends on the size of flash card but could be approximately 6 hours using a 320 MB flash card at 128 kb/sec.
Through its USB connection the handheld can be directly ported to your local or central PC system for further editing of the various stored files.

Docking Station

The Docking Station is a fully equipped multifunctional portable and desktop device. It acts as the recharger for the smart battery pack, but also provides (additional) loudspeaker functionality and external interface options. It offers connections for two balanced XLR inputs (line or microphone), a headphone and PC (through USB). Maximum portability is secured through the 12 volts DC (100-240 VAC mains adapter) which automatically adapts to the local power system.
2. Unpacking

Please unpack the HandHeld and check whether all the standard accessories have been provided. Use the checklist below:

- HandHeld recorder
- 4 alkaline batteries
- CD-Rom with manual, configuration editor and drivers
- Quickstart manual
- Battery clip (red)

If this list is not complete please contact your dealer or the sales department of Maycom, e-mail : sales@maycom.nl.

Accessories

Besides the standard accessories the HandHeld can be supplied with optional accessories:

- Rechargeable battery pack (charging via the Docking Station), with unique power level indicator
- Carrying bag for HandHeld or both HandHeld and DockingStation
- USB cable
- Mono microphone or line cable
- Stereo microphone or line cable
- Tripod
- Compact flash card
- Docking Station

For more information or a quotation please contact your dealer or the sales department of Maycom, e-mail : sales@maycom.nl or visit www.maycom.nl.
3. Conventions

Notations

The following notations are used to represent units of measure.

- dB: Decibel
- kbps: Kilobits per second
- Hz: Hertz
- kHz: KiloHertz
- kg: Kilogram
- kB: Kilobyte
- MB: Megabyte
The HandHeld can be powered by three sources: alkaline batteries, a rechargeable battery pack* and via the Docking Station*. The first two are inserted on the back of the HandHeld. The picture below shows the HandHeld with the back-cover already removed.

Figure 1

Alkaline batteries

When alkaline batteries are used, observe that the polarity of the cells match the polarity indicated on the sticker (3). Use four AAA-type or LR03-type alkaline cells only. The indicator is calibrated for alkaline batteries only, for all other types of batteries Maycom cannot guarantee proper functionality. Insert the compact flash card (1) first and lift up the lid (2). Insert the cells one by one between the springs (4) and the lid (2). Never use partially empty and full cells together. Never leave the cells inside the HandHeld when the recorder will not be used for a longer period. This prevents the cells from running empty and leaking acid inside the HandHeld.

5 minutes before the batteries run empty the HandHeld will give a visible warning on the display and a short beep in the headphone or loudspeaker. Longer warning beeps are given 3, 2 and 1 minute before complete discharge. The last 10 seconds the HandHeld will beep continuously. If at this point a recording still takes place the recorder will automatically stop and shut down.

Important!:
If the batteries are empty take care of proper disposal.

Battery pack

The second and more convenient power source is a rechargeable NiMH battery pack*. This pack is equipped with a smart battery system that delivers the highest performance in operating time, lifetime and reliability. The smart battery system also enables you to check the battery state of charge even if the pack is not attached to the HandHeld or the Docking Station.
Figure 2

Press the button (1) and the four LED’s will indicate the state of charge of the battery pack (2). Every LED represents 25% of full charge. If the last LED is flashing, this indicates that there is between 0% and 1% energy left and the HandHeld will either not start on this pack or will shut down after a few minutes. Besides on the battery pack itself the charge indicators are also visible on the HandHeld display.

To insert a battery pack inside the HandHeld remove the back-cover. Make sure you have inserted a compact flash card first if you want to make a recording. Flip down the lid (2 in figure 1). Insert the pack and press it against the springs until it clicks into place.

5 minutes before the pack runs empty the HandHeld gives a visible warning on the display and a short beep in the headphone or loudspeaker. Longer warning beeps are given 3, 2 and 1 minute before complete discharge. The last 10 seconds the HandHeld will beep continuously. If at this point a recording still takes place the recorder will automatically stop and shut down.

**Important!**
The NiMH battery pack can only be recharged inside the Docking Station. Use Maycom equipment only for recharging the pack. See Docking Station manual.

If the temperature drops below 0° the performance of the NiMH battery pack can drop with 20% of its full capacity.

**Docking Station**

The Docking Station* can also be used to power the HandHeld recorder. Via the Docking Station it is even possible to connect the HandHeld to a mains adapter or cigarette lighter adapter. For more information see the Docking Station manual.

* optional accessory
This section shows all the various controls of the Handheld and describes their function.

1 Record indicator led
2 Power On/Off button
   Switch on/off. The Handheld will boot up and enter the standby mode. The power button is only enabled when the HandHeld recorder is idle. When pressing the power button in any other functional mode (like menu, playback or recording), the HandHeld recorder ignores your request and will continue with the current action.
3 Function button left
   The function is shown in the display above and will be activated by pressing once.
4 Up/down buttons
   Control the menu and recording level by pressing up (↑) or down (↓).
5 Function button right
   The function is shown in the display above and will be activated by pressing once.
6 Volume control up/down
   For headphone and internal speaker.
7 Marker button mode
   1. Starts new recording and switches from pre record to record mode.
   2. Sets next marker during a recording.
8 Go to previous item
   Skip to previous item. When pressed together with button 7: go to previous marker in current marker item.
9 Fast rewind
   Search for a certain part within the audio.
10 Play/pause button
   Press once to playback the recording. Press again to pause.
11 Go to next item
   Skip to next item. When pressed together with marker button 7: go to next marker in current item.
12 Record switch
   Slide up: activates pre-record mode.
   Slide down: stops a recording.
13 Fast forward
   Search for a certain part within the audio. button 7: go to next marker in current item.
1. Item number. This number indicates the current selected item. This item will play when the play button is pressed. Use previous or next item button to select a different item.
2. Info bar. The info bar shows all kind of information. When pressing the right function button INFO repetitive, all information about the current item will be shown: time stamp, profile name author and filename.
3. Left function button indicator. This shows the current function of the left function button (in this case: enter the menu).
4. Right function button indicator. This shows the function of the right function button (in this case: toggle the information in the info bar).
5. Remaining disk capacity. This bar indicates the available amount of disk space. Black is used, white is free space.
6. Battery indicator. This bar indicates the amount of energy left in the batteries or the smart battery pack. black is full, white is empty. The indicator is calibrated for alkaline batteries only.
7. Item length counter. Shows the length of the current item in H:MM:SS.
8. Marker information. In this example it shows that the current position within the audio equals the marker 02 position. In total there are 89 markers being set in this item.
7. Connections

All connections for the HandHeld are easily located at the bottom of the HandHeld:

Figure 5

1. Stereo headphone connector, switches off the internal loudspeaker when a headphone connector is inserted.
2. Multi I/O, for interfacing with external microphones and Docking Station. This connector is coded and recognizes which cable is inserted and the HandHeld will automatically be setup for this cable. This setup is done according this table:

<table>
<thead>
<tr>
<th>Type of Cable</th>
<th>Mono</th>
<th>Profile Mode</th>
<th>Stereo</th>
</tr>
</thead>
</table>
| No Cable              | Internal Microphone         |                               | L = Internal Microphone  
|                       |                             |                               | R = Internal Microphone                     |
| Mono Cable            | External Microphone or Line |                               | L = Internal Microphone  
|                       |                             |                               | R = External Microphone or Line             |
| Stereo Cable          | External Microphone or Line | (Left channel)               | L = External Microphone or Line             
|                       |                             |                               | R = External Microphone or Line             |
This chapter helps you to quickly start a first recording with your HandHeld. More detailed information you can find in the respective manual chapters.

1. Open the back-cover and insert a compact flash card (figure 1).
2. Insert a power source, either a charged battery pack* or 4 alkaline batteries. Note the polarity indicated on the sticker in the battery compartment and finally cover the batteries with the battery clip. This prevents movement of the batteries.
3. Close the back-cover and switch on the HandHeld recorder by pressing the button above the display.
4. If applicable, connect any external accessories like a headphone or external microphone(s).
5. After the HandHeld has powered up, slide the red record switch in the upward position. The HandHeld enters pre-recording mode and the red LED flashes. The display shows you input peak level information, disk-, battery- and mode-status. When the input level is too low or high, you should use the up/down buttons for adjustment.
6. Once you have set the required record level, press the marker button and the HandHeld starts its actual recording. The actual recording is indicated by the continuous LED indicator, a large dot and a running counter on the display.
7. During a recording it is possible to change the headphone / loudspeaker volume and the input gain. By pressing the marker button you can add markers.
8. Slide back the red record switch to stop a recording. A new track is created.
9. To avoid accidental loss of data: The power button is only enabled when the HandHeld recorder is idle. When pressing the power button in any other functional mode (like menu, playback or recording), the HandHeld recorder ignores your request and will continue with the current action.

* additional accessory
The HandHeld is equipped with an easy to understand menu structure. You have to press the left button below the display to enter the various menu's. The main structure of the menu consists of 5 options activated by the down (▼) button:
1. User profile
2. System settings
3. Audio settings
4. Item manager
5. USB mode

**USER PROFILE**

First profile
Second profile
......
Last profile

Press back to go to the previous menu level

**SYSTEM SETTINGS**

**CONTRAST**
allows you to change the contrast of the display. The contrast scope can be adjusted through a range varying from -3 (low) up to a value of +3 (high).

**BACKLIGHT**
allows you to switch the backlight of the display on or off. This option will overrule the setting in the selected profile (until you select a new profile).

**DATE**
to adjust the current date. The HandHeld is equipped with a small backup battery and a real-time clock which will keep the date up-to-date.

**TIME**
allows you to adjust the current time. The HandHeld is equipped with a small backup battery and a real-time clock which will keep the time up-to-date.

The HandHeld uses an internal rechargeable battery for the real time clock and date. This battery has an autonomy of 60 days and will charge within an hour from the batteries, the pack or an external power source.

Press back to go to the previous menu level
9. The Main Menu

**AUDIO SETTINGS**

- **ENTER**

**INPUT**

allows you to change the type of source connected to the external input(s). When you connect a microphone you have to select the option “Mic”. When connecting devices like CD-player or mixing console you should select the option “Line”.

- **MIC**
- **LINE**

**CHANGE**

**AGC**

allows you to switch the Automatic Gain Control on or off. When the AGC is active, when necessary the HandHeld will automatically adjust the input level to achieve a high quality recording.

- **ON**
- **OFF**

**CHANGE**

**LIMITER**

the limiter prevents an overload on the analogue microphone inputs. It will automatically switch off when line input is selected

- **ON**
- **OFF**

**CHANGE**

**ITEM MANAGER**

- **ENTER**

**DELETE**

allows you to delete the currently selected item. Before the HandHeld will delete the file it will ask you to confirm this action.

- **YES**
- **NO**

**CHANGE**

**USB MODE**

- **ENTER**

-(RE)CONNECT USB CABLE  - **DONE**
- USB MODE ACTIVE  - **STOP**
The HandHeld is a versatile professional audio recorder capable of recording in many different modes, with a number of input sources. To prevent the daily user from having to go through all these rather technical details, Maycom introduced the profile. A profile is basically a configurable preset that can be personalized. On the HandHeld it is possible to change only a few settings that relate to the day to day settings. All other settings are entered via a profile, which is created by the configuration editor. The configuration editor is a separate program that runs on a Windows PC. The profile information is stored on the HandHeld via the USB cable or by placing the compact flash card in a reader. It is possible to store 30 different profiles on a compact flash card. The user can select up to 30 profiles by using the main menu of the HandHeld. If a HandHeld is used for the first time, there are 6 factory defaults to choose from.

### Installation of the configuration editor

To use the configuration editor you need a PC compatible computer running Windows95 (Not USB), Windows98 (Not USB), Windows2000, Windows ME, or Windows NT (Not USB). To transfer the profile information to the HandHeld you need either a USB port or a compact flash reader in your computer. Next step is to install the configuration editor on your hard disk. Insert the CD-ROM. Use the start button in windows to invoke the run Command. By pressing the Browse button select the CEsetup.exe file on the CD-ROM. Press OK and follow the instructions given by the setup program.

### Start the configuration editor

After the installation you can start the editor via windows, select: start, programs, Maycom, HHConfEdit. This is the start up screen of the configuration editor.
The first important thing to do is to select the disk that is being used to store the profile data. This can be either the HandHeld itself via USB (make sure that the HandHeld is attached and running in USB mode) or a compact flash card reader (make sure that a disk is inserted in the reader). It is now possible to create, remove and or edit profiles.
10. Configuration editor

New Profile

To make a new profile press the new button, enter a profile name in the Profile ID box and enter a File prefix in the File prefix box. After entering all the other preferred options press the OK button and your profile will be stored on the disk. (becomes visible in the user profile box). The maximum number of profiles you can create is 30. If you use the compact flash reader, take out the card and insert it in the HandHeld. If you use the USB connection, leave the USB mode and the profiles become available in the profile selector in the main menu.

Profile ID: Enter the name of the profile. This name will be displayed in the select profile menu on the handheld.

File Prefix: These are the first 6 characters of the actual file name of an item. The next 2 characters are placed by the HandHeld itself. For example: if reporter Bert makes two recordings with profile “Mono MPEG”, the actual file names on the disk will be: Bert01.wav and Bert02.wav. Each profile can have its own or the same prefix.

Reporter: In this box you can enter the name of the user. This information is copied in the header information of each file and can be used by Broadcast Automation Systems for further processing.

Company: In this box you can enter the name of the company or broadcaster. This information is copied in the header information of each file and can be used by Broadcast Automation Systems for further processing.

Compression: Choose between uncompressed audio or compressed audio. Compressed lets you store more audio on the same disk with almost the same quality.

Sample rate: Equals the amount of audio samples taken within a second. Higher sample rates equals higher quality, equals more disk space needed.

Mode: Enter here whether you want to make a stereo, or mono recording.

Bit rate: (MPEG only) this represends the compression ratio. High bitrates equals low compression, equals more disk space needed.

Pre-recording: In this menu option you can disable the Pre-Record buffer, or enter the size of this buffer in seconds.

Audio input: Configure the analoge inputs of the HandHeld as a line level input or as a microphone input.

AGC: Automatic gain control (Microphone inputs only), when enabled the HandHeld automatically adjusts its gain level on the incomming audio. Manual gain is disabled.

Limiter: (microphone inputs only) Limits the gain preventing the inputs from going into overload.

Backlight: Check this box if you want the backlight of the LCD always on. Note: when the backlight is switched on, the run time of the batteries will decrease with approxamitely 5%.
Modify profile

To modify an existing profile, select the profile from the list and make the adaptation you want to make and press modify. The existing profile will be updated with the new information.

Remove profile

If you want to delete a profile, select the profile in the name box and press the remove button. The profile will be deleted from the profile list.
The HandHeld stores a recording as an item on a compact flash card, a non volatile random accessible media. This means that you don’t have to “search for an empty spot” on the disk before making a new recording. Also no rewind or fast forward is necessary to access a different item for playback; the HandHeld does this automatically. The maximum number of items on a disk is 99 and the maximum number of markers per item is also 99. A new item number is given automatically when the HandHeld switches from record to idle mode and is always the next number in line.

Making a recording on the HandHeld involves basically three steps:
- Preparations: set up the recorder.
- Record level: set the proper input level for this recording.
- Recording: Make the actual recording.

Preparations

Before actual recording please check these basic requirements:
- Is a compact flash card inserted?
- Is a power source connected? See Chapter 4
- Which input source(s) is/are connected and is/are it/they configured? See Chapter 7
- Switch on the HandHeld recorder.
- Does the power source contain enough energy? See Chapter 6
- Does the card contain enough free space to make a new recording? See Chapter 6
- Is the right profile selected? See Chapter 9

If all requirements are made the HandHeld is ready for making a new recording.

Record level

One last thing to be done before making an actual recording is the input gain adjustment. This can be done in two ways:
- Manual Gain Control
- Automatic Gain Control
This option can be changed in the configuration tool as well as in the HandHeld Main Menu. To check the current gain level slide the record switch in the upward position. The display shows “pre-recording”, the LED starts flashing and the peak level indicators represent the incoming audio level. **Manual Gain Control** means that the user is able to change the recording level. Use the up button to increase the audio level, use the down button to decrease the audio level. Make sure that at the end of the peak meter the overload indicator does not appear and that your average level is around 2/3 of the total Peakmeter scale.

Automatic Gain Control (AGC) means that the HandHeld does all the gain adjustments automatically all input levels are recorded on the same average level. So weak audio is amplified, loud audio is tempered. It does not prevent against possible overload of the microphone inputs, this is the function of the limiter.

Pre-Recording mode has a second function: the pre-record buffering. If enabled (in the current profile) the HandHeld is capable of recording 2, 5, or 10 seconds in a loop buffer (visible on the display). Once you start a recording the content of this buffer is copied in front of the recording. This mode is implemented to prevent tight “in’s” or clipped opening words in hurried recording starts.

**Pre-recording / recording**

The recording mode can only be entered from pre-record mode (see previous paragraph). You can start the actual recording by pressing the MARK button above the record switch.

Figure 8
The display shows the new item number (in this example 53) and the record dot followed by the length of the item. At the same time the LED lights continuously. Check the input level on the peak bar indicator during recording and adjust (if necessary) with the up (↑) or down (↓) button.

Other options available during recording are:
• headphone volume up or down.
• change the information in the info bar.
• place marker.

The recording mode is stopped by sliding the red record switch downwards.

### Placing markers

The HandHeld automatically places 2 markers in an item and 3 markers if the pre-recording buffer is enabled. One marker is placed at the beginning of an item and one is placed at the end of an item. The third marker in pre-recording mode was placed at the moment the actual recording started. The user can also place markers by pressing the marker button during recording or (at a later stage) during playback. For further marker functions see chapter playback.
12. Playback

A recorded item can be played back on the HandHeld via the internal loudspeaker, the headphone or the Docking Station loudspeaker. The HandHeld does not need a profile for playback and all items recorded with different profiles can be played without reconfiguring. During playback it is possible to adjust the headphone or speaker volume.

Item Info

By default the info bar in the display shows a time stamp (item creation time and date).
By pressing the function button INFO (5, Figure 3) once, the HandHeld shows the name of the profile used to record this item.
By pressing INFO again, the HandHeld shows the reporter name.
By pressing INFO a third time, the file name is shown.
By pressing INFO a fourth time, time stamp again.

Selecting an item

The item shown on the display is the active item. To make another item active use the previous(8) or next buttons(11). The items are shown sorted on recording date. The maximum number of items is 99.

Playback

To playback an item press the play/pause button (10). The active item will start to play. Press the play/pause button (10) again to pause or stop playback. The HandHeld will stop automatically when the end of an item is reached.
The HandHeld recorder has the option to place markers in an item. Marker can be used to indicate a certain part within an item or a means of dividing an item in several subsections. The HandHeld automatically places 2 markers in a new item and 3 markers if the pre-recording buffer is enabled. One marker is placed at the beginning of an item and one is placed at the end of an item. The third marker in pre-recording mode is placed at the moment the actual recording started. The user can also place markers by pressing the marker button during playback/idle or record mode.

To skip to a certain part or subsection within the audio press the previous and mark or the next and mark buttons simultaneously during playback or idle mode. The HandHeld will resume playback at the selected marker. Note the marker numbers in the marker area on the display.

To delete a marker, skip to the marker you want to delete in idle mode. The marker indicator will show in the display indicating that a marker is selected. Press the marker button to delete the marker.

Fast forward and fast rewind

If no markers are used, it is possible to search for a certain part within the audio with the fast forward (13) and fast rewind (9) buttons. They work in both idle and playback mode.
Installation

The HandHeld is capable of emulating its own storage media as a removable disk for a Windows PC. This is done using the Mass Storage device class defined by the USB implementers forum and the matching driver supplied by Microsoft in Windows ME and 2000. Mass Storage is by default **not** supported under Windows 95, Windows 98 (SE)* or Windows NT. Windows ME or 2000 will recognize the HandHeld as a standard USB disk device but will not recognize the exact type. Therefore you will need to point to the installation media to install an information file (.inf), supplied on the CD-ROM.

1. Power up the PC. Make sure you are logged in as administrator if you are using Windows 2000.
2. Insert the installation CD-ROM.
3. Power up the HandHeld and set it up in USB mode.
4. Connect it to the PC system using either the special HandHeld USB cable or the Docking Station (supplied) standard USB cable.
5. The “Add New Hardware Wizard” will appear. Select “Automatic search”, select next or point the wizard manually to the WinME / Win2000 directory on the CD-ROM and click next. Windows will read the file and finishes the installation.

**Important!:**
This installation procedure only needs to be executed once, since your HandHeld will now be recognized by Windows.

Operation

USB is part of the windows operating system and you do not need special software to connect the HandHeld to the PC. If you install the driver once (see above) the HandHeld will be recognized as an external removable disk. By using windows explorer you can access the items on the HandHeld Compact Flash Disk. All commands valid for the explorer are also valid for the HandHeld, among them are CUT, COPY, RENAME, PROPERTIES, SEND and OPEN. Besides the explorer it is also possible to access files via the file open menu option in all programs that are capable of reading MPEG files, for example windows media player. The PLAY and RECORD commands do not represent a playback or record on the HandHeld but a playback or record on the audio board of the PC with the HandHeld as storage media.

To connect:
1. Power up the PC.
2. Power up the HandHeld and set it up in USB mode.
3. Connect it to the PC system using either the special HandHeld USB cable or the Docking Station supplied standard USB cable.
4. Use windows explorer to check if the HandHeld is recognized by windows. The system will show up in the disk map as a removable disk.
5. The System is now ready for use.
13. USB data transfer

Figure 9

Special notice:

- The order described above is critical if you use the USB cable. If you use the Docking Station the order is less critical.

- If you use the USB cable the HandHeld is not powered by the USB master but by its own power source. If you use the Docking Station the HandHeld is powered by the Docking Station, via the PC or mains adaptor.

* will be available soon as download via www.maycom.nl
Audio
Signal/noise ratio > 80 dB
Cross talk < 80 dB
Frequency response 20 Hz – 20.000Hz
Harmonic distortion < 0.005%

Recording
Audio processing linear / MPEG-2 layer II
Audio modes mono / stereo
Bit rate 8 kbps to 384 kbps
Sample rate 16 kHz up to 48 kHz
File formats Broadcast Wave (BWF)

Input
Analogue in 2 x balanced mic/line inputs
Internal microphone omni-directional electret microphone (20 Hz - 20.000Hz)
Audio switches input (line/mic); limiter (on/off); AGC (on/off);

Output
Analogue out 2 x unbalanced outputs
Headphone out 1 x 3.5 mm stereo jack
Loudspeaker internal 0.5 Watt

Interface
Storage media Removable Compact Flash card (the HandHeld is tested and guaranteed only with use of Maycom supplied compact flash cards)
Digital in/out USB 1.1 (Windows compatible disk emulation)

Power
Batteries 4 AAA-sized Alkaline batteries
Battery pack (optional) Rechargeable NiMH smart battery pack

Additional
Environment operation: 0°C to +70°C, storage -25°C to +85°C
Dimensions L x W x H = 178 x 64 x 30 mm (including battery pack)
Weight 0.3 kg (including battery pack)
General Conditions of Warranty for Products Manufactured by Maycom Audio Systems BV.

Maycom Audio Systems B.V., hereinafter referred to as Maycom, provides a general warranty to products manufactured and delivered by Maycom and/or its official Distributors and Agents.

Some Maycom manufactured Products have a specific and separate warranty with terms and conditions applicable to that Product. When a specific Maycom manufactured Product has a warranty it shall take precedence over this document. If the Product includes hardware or software components manufactured by a third party, then the specific warranty of that third party component shall take precedence over this Warranty. Products without a specific warranty shall conform to the terms of this Warranty.

All additions, alterations, and exceptions to and waivers of these General Conditions of Warranty must be in writing and approved by Maycom.

This Warranty, including any approved alterations, shall be included as an integral part of the offer and the contract of sale.

Warranty Conditions

1. Maycom warrants that:

   1.1 The hardware components meet the form, fit and function defined in the Maycom Product Specifications and operate error free when used in accordance with the applicable technical manuals.

   1.2 The software meets the form, fit and function defined in the Maycom Product Specifications and will operate error free when used in accordance with the applicable user and technical manuals. Repairs to software can take place by replacing the Product with a comparable Product or by providing a work around instructions on how to avoid or bypass the problem.

   1.3 Products, when integrated, delivered and installed as a turn-key system by Maycom meets the form fit and function for the Maycom System Specifications and operate error free when used in accordance with the applicable technical manuals. Repairs to software can take place by replacing the Product with a comparable Product or by providing a work around instructions on how to avoid or bypass the problem.

   1.4 Not included in this warranty are the LCD-display module and the PC card removable storage media.

   The manufacturers' warranties on the removable media, removable hard disks and flashcards are given.

2. Maycom liability under warranty shall not apply to damages due to normal wear and tear, improper use or handling, inadequate maintenance, disregard of operating instructions, excessive load or stress, acts of nature, or any other cause not attributable to Maycom. Except by express, prior agreement in writing, Maycom shall not be liable under warranty for damages to Maycom Products due, or attributable to repairs or alterations made by the End User or any unauthorized third party technical service organization; or the use of components or repair parts not specified or authorized by Maycom. Maycom will not be liable for any indirect, special, incidental or consequential damages or the loss of data irrespective of whether Maycom has advance notice of the possibility of such damages.

3. As promptly as possible upon receipt of the End User or Representative claim in writing, Maycom hereby undertakes, as it may see fit and at its sole discretion, either to replace or repair any parts of its Products which are or have become ascertainable defective or unserviceable due to poor materials, faulty design, or deficient manufacture. All parts replaced shall become the property of Maycom.

4. This Warranty applies to the repair or replacement and re-commissioning, free of charge, of defective or unserviceable parts, inclusive of the cost of transport, packing, and labor. All warranty action, including the shipment of repair parts must be approved by Maycom in advance before being performed.

5. This Warranty will cover a period of one (1) year after date of invoice from the End User.

6. This Warranty expressly excludes transport damage; items such as batteries, cables, microphones, headphones, pouches, and faults related to adjustment or readjustment of the Products by the End User or any other non authorized service organization.

7. This Warranty expressly excludes any liability by Maycom for consequential loss or damage on any grounds, such as (but not limited to) the need to repeat work processes, penalties for late delivery, etc.

8. For goods and components manufactured by any third party, Maycom's liability under warranty is expressly limited to the terms of Warranty by the supplier of such goods and components.

9. Maycom shall not be required to provide services under warranty until and unless the End User has paid such part of the purchase price as bears a reasonable relation to the value of the stated defect.

10. Place of performance for work under warranty shall be the nearest authorized service workshop or as otherwise designated by Maycom, and for Products forming part of a fixed installation, it shall be the site of such installation. Maycom shall, at its sole discretion decide the place of performance.

11. Maycom shall have the right to charge for services under warranty if the site of the product is other than where the product was originally installed.

12. Warranty claims shall be in writing and include:

   13.1 point of contact, shipping address, telephone, fax number, and email address of the End User

   13.2 name, description, version or serial number of the faulty component, invoice of the Product and warranty start date.

   13.3 description of the problem

   13.4 other supporting data as necessary

14. Repair action under warranty will not occur unless a written claim is received and approved in advance by Maycom. Any repair activity performed by the End User prior to Maycom approval is at the risk of the end user.
Important

Please ensure the above form is completed at the time of purchase and present it to the dealer for guarantee/warranty service, otherwise your guarantee/warranty may be affected. Warranty service will only be provided if supported by the original invoice as of date of purchase as well as the completed filled in warranty card.