Digital addressable Broadcast System
# CONTENTS

1. INTRODUCTION................................................................................................................................................. 1

2. NOTE ................................................................................................................................................................. 1

3. FEATURES.......................................................................................................................................................... 2

4. FRONT PANEL AND REAR PANEL .................................................................................................................. 3

5. INSTALLATION.................................................................................................................................................. 5

6. OPERATION ....................................................................................................................................................... 5
   6.1 SOFTWARE LANDING................................................................................................................................... 5
   6.2 FUNCTION SELECTION ................................................................................................................................. 6
      6.2.1 System Settings........................................................................................................................................ 6
      6.2.2 System Control ....................................................................................................................................... 11
      6.2.3 Status Inquiry ......................................................................................................................................... 15
      6.2.4 Programming Control ............................................................................................................................ 18
      6.2.5 Exit ....................................................................................................................................................... 21

7. PERFORMANCE INDICATORS.......................................................................................................................... 22

8. COMMON FAULTS ............................................................................................................................................. 23
1. Introduction

Dear Customer:

Thank you for choosing my company products. We would like to express our sincere thanks. From development to production to test, every process is very strict and precise. Therefore, we are confident that our products will satisfy you. The software manual explains the operation of the software. Please read this manual carefully before use it and keep it for future inspection.

ITC is committed to continuously improve product quality, enhance features, and update software. For the functions of the software, please take the real one as standard. For any change, we will not notice. Thanks for your understanding if cause you any inconvenience.

2. Note

Common safety signs and warnings

Safety symbols and warnings in this manual are to prevent improper operation to avoid personal injury and property damage. Pls fully aware of potential hazards by reading the manual in details about symbols and warnings before use the product

Pls turn off the power immediately if any of the following happens. Pull the plug and quickly contact your nearest dealer. Do not continue to use the machine, which may cause fire or electric shock.

a. If you find smoke or a strange smell coming from the unit.

b. If water or metal objects falling into the machine.
c. If the unit dropped or the cabinet damaged.

d. If the wire is damaged (core wire is exposed or broken, etc.).

e. If fault is found (no sound).

- To avoid fire or electric shock, do not open the case because the machine contains high-voltage parts. Please notify your nearest dealer.

- Do not place cups, bowls, vases or metal devices or other water-containing material in the machine. If the liquid was inadvertently spill out, it may cause fire or electric shock.

- Do not put metal objects or flammable materials into the machine form the vents, and do not put coins otherwise may cause fire or electric shock.

- Do not place heavy objects on the machine to avoid injury or property damage in case the machine drops.

Turn the volume to minimum before the machine is boosted. The high volume may cause hearing impairment.

Do not use the speaker when the sound is distorted. This is a sign of failure, which may cause heat and fire.

Please inform your dealer for machine cleaning. If dust covers on it for a long term, the machine may be damaged or may cause a fire.

The long-term accumulation of dust in the power plug or the outlet may cause fire. Please cleaned regularly. In addition, insert the plug firmly into the socket.

3. Features

- User-friendly interface and operation


- If you use SERVER 2003 operating system, the terminal 1, terminal configuration must be configured in case the system does not install the patch. Otherwise error may accord in the terminal configuration interface.
The software is designed and developed for industrial computers, and it takes up very limited resources.

10-inch LCD screens, simple touch, easy operation.

Specific status display, manual control, editing program, download programs and so on.

Built-in multimedia playback; manually operates to play multiple audio formats files

Different audio sources, zones and power timing devices can be re-named; with intuitive operation.

Serial port settings; the serial communication port number can be modified.

4. Front panel and rear panel
1. Optical drive (CD-ROM)  
2. Paging microphone interface  
3. Power switch lock  
4. Power indicator  
5. Intercom button  
6. Intercom status  
7. Intercom OK / Cancel  
8. Monitor power indicator  
9. Display power switch  
10. Display parameter tuning  
11. Display menu key  
12. Display parameters reset  
14. ~ 220V/50Hz power input.  
15. Mouse interface.  
17. COM1 port: connect serial cable to the host (TF-2010 addressable radio control) RS232 port to control the host.  
18. VGA output: display output.  
19. USB interfaces.  
20. USB interfaces.  
21. MIC input: microphone input.  
22. Line Output: Speaker output.  
23. Line input.  
24. TRIGGER output: short circuit to boost the computer.  
25. LPT1 Interface: Parallel Port.  
26. MIC input: microphone access.  
27. COM Interface: Ethernet access.  
28. Fan mouth. 29. VGA input: Connect the display.  
30. Exhaust fan port  
31. Monitor Speaker  
32. COM interface: one way call station interface.
5、Installation

1) Connect computer’s serial port to the host RS232 port and open the host’s power.
2) Turn on computer and enter "Windows" operating system;
3) Put the disk into the computer CD-ROM drive;
4) Double click "MCI Setup" file in CD-ROM directory and click "Next" till the software is installed to the IPC or PC computer.
5) To run the software interface for the first time, the computer will remind to enter registration code if; after successful registration the software is workable.

6、Operation

6.1 Software Landing

Double-click "shortcut to MCI.exe" to enter the login screen shown in Figure 1.1, and then enter the password (the default administrator password for the default Admin user: admin, which can be modified in the software. Other users default password is: 111), click 【on OK button, enter the number of addressable broadcast system interface Figure 1.2, you can see all the action function selection menu functions, such as: system control, status inquiries, program control, system settings. When you select an operation control, interface control will be converted to its functional state, as shown in Figure 1.3 which choose 【equipment control】
Note: To modify the login password, open the 【use management】dialog box in the 【system settings】 in the operation interface, and then modify the password in 【edit the user you have selected】.

6.2 Function Selection

   system control: direct terminal control, source switching, power control, audio playback, call / radio, PC players’ control.

   Status query: check the host, terminal, call stations, terminal fault and other information query services; stop the background check; manually control all zones, zones, single terminals.

   Programming control: support program upload, download, edit,

   system settings: before operation, terminal/ partition, call stations, audio and other configurations can be carried out in one time; Other operation like user management, other parameters and backup / restore settings;

6.2.1 System Settings

Click 【System Settings】 button to enter the interface Figure 2.1.
1) Terminal / partition configuration

Click 【terminal/partition configuration】in【system settings】. Enter terminal name, terminal address, and ownership of regional items in 【terminal address settings】diagram in the right side of the interface. Or click the drop-down arrows behind the input item to bring up the digital box. Select the number you would like to enter, click 【write into】to write the terminal address and partition. The range of terminal address is 001—999; the range of destination partition 001-128. as Figure 2.2

Note: Set address to assign an address code for each terminal. When the terminal (such as TF-2060) is power off, press SET ADDRESS of the terminal (address code settings control key), and then set the power on the terminal, he terminal address code status indicator shines, then write the address code into the figure 2.2.
Select a terminal in “terminal status” to set or modify the terminal destination partition.; enter partition number in destination partition or choose in the drop-down list. Press OK to finish the setting or modification. Figure 2.3
To facilitate user control, the name of the partition can be changed to a familiar or straightforward name. Select a partition number you would like to modify in the column 【Modify the partition name】. Enter a new name in column 【name】 click on OK to finish. 【terminal status】 column will automatically refresh new partition column name. Figure 2.5

When terminal configuration is completed, connect all the terminal devices; scan and test the device to see weather the configuration is normal. Click 【scan terminal】 , the latest terminal status will be shown in the left side of the interface, as figure 2.6. If you don’t need to test all the devices, click 【stop scanning】 to stop scanning at any time.

After scanning each terminal will have an icon showing its existing state for convenient user search. Figure 2.7

Meanwhile, in the column 【terminal state】 , click right key to bring up a shortcut menu to for multi operations: scan terminal device modification, scan the selected terminal, scan terminal within the zone, stop scanning, address lock, address unlock, all zone lock, delete the selected terminal, delete all the terminals.

2) Call Station Configuration

Click 【Call Station Configuration】 In 【system setting】 , the right side will show the configuration, as figure 2.8. Double click the list call station name to enter name to the call station accordingly. When the mouse is removed the call station name will automatically change.
3) Audio source configuration
Audio source configuration is mainly for audio2-audio7 of the host; as figure 2.9

   Equipment: ---, MP3, CD, RADIO, PC and other audio source selection.
   Equipment Number: refers to address of the programming control source equipment, from 1-8 units, maximum 8; the encoding device address should be in cord to the actual address.
   Power: refers to powered timing device address number of the audio power supply, -, 1 --- 8 for selection.
   Power Port: refers to the N-port of the N timing device 1 --- 8-port for selection.
   (Note: the first 1-8 are controlled; 9-10 as an alternate port, normally closed.)
   Note: The device can be marked to facilitate edit.

When all the sources are configured, click 【 modification 】 to finish the setting.

4) User Management
Manage the lever of the soft operator such as create, edit, delete management. Figure 2.10
When creating and editing the user, the user can also set or modify the password.

5) Other parameters
Used to set the PC communications port, activate the software automatically when the system is booted, systems and host time synchronization projects. Figure 2.11

6) backup / restore
Used in system setting for database backup and restore to prevent system data loss and original data restoration. Figure 2.12
6.2.2 System Control

Click 【device control】 to enter system control state interface. Figure 2.13

Diagram 2.13

1) Terminal control

The left side of the interface shows the common terminal state; users operate all zone or terminal by ticking All Zone.

Right key click the terminal to scan terminal, sub-regional terminal, all the terminals, channel, volume and stop scanning.

Open 【Audio Switch】 in the left corner to turn on the according equipment power and switch the selected terminal.

Figure 2.14

Diagram 2.14

2) Power Control

【Power Management】 interface is used for controlling power of all the audio source equipment and to facilitate
précised control of the audio source and the program running. Pay more attention to the address of power timing devices, opened or closed port, connection with the audio source equipments, audio source device address configuration. Source configuration should be in matched. Figure 2.15

Power Manager: 1 to 8 units are available (the system controls total 64 audio equipments).
Port: 1-8 port number (a power management device has 8 ports controlling 8 sets audio equipments).

Power: two functions: on and off

3) Play Control

【Play Control】 Module controls MP3, CD, Tuner, call / radio, PC players and other audio sources.

1, programming source MP3, CD, tuner control, the operation as follows:

- audio devices: CD, MP3, tuner.
- Device number: 1 to 8 units are available (equipment number is the address code from the audio device selection set number).
- Play mode: loop, cycle track, plays all, play single or FM, AM.
- Track / channel: 1 to 99 is available.

Play / Stop operate through the button. Selected one audio source device such as CD, choose the device number in the corresponding drop-down list. Select the device number to play, such as the 3rd unit. Select Play mode, such as cycle Play, select the track such as the 2nd, click 【stop】 to finish setting. Other operation of the MP3, tuner is similar like the CD. as Figure 2.16
2. Call/radio can page or talk to the terminals, zones, and all zone, with the higher priority. The playing background music, remote paging, can be stopped. The background music can be resumed after the broadcast is closed.

Operation: Select the terminal, zone or all zone in a terminal state, set call/radio volume, click 【Start Call】 to enter the terminal broadcast state, as shown in Figure 2.17, if you want to the end terminal broadcast, click 【end the call】 as shown in Figure 2.18.

3. PC player control

Choose list name in the drop-down list of 【PC Player. The following box will automatically display the tracks.
Create a new list, modify the list or delete the list can also be operated. Figure 2.20

Diagram 2.20

Click 【Add】 to add a new track to the list, as shown in Figure 2.21

Diagram 2.21

Or select the track in the list, click 【Delete】. Figure 2.22

PC players operation: choose play list, select the track you want to play in the play mode of circle play, click 【play】 to play the tracks. Meanwhile the play progress can be reviewed, and the output Volume can be adjusted. Figure 2.23

Diagram 2.22
Note: In addition to playing single track, cycle track which needs selecting, other operation mode can be selected directly from clicking 【play】. Users can also select play / pause, stop, previous track, next track when it is playing.

6.2.3 Status Inquiry

Click 【status inquiry】 to enter the system status inquiry interface as 2.24, the interface shows which terminal is in working condition, weather there are requests from call stations and so on.

Click 【inquire the terminal status】 to check how many terminals are connecting to the systems. Meanwhile the interface shows the status of each terminal. Each terminal ID has a status icon in front. As shown in figure 2.25
Diagram 2.2

Tip: Double-click the terminal to perform terminal enquiry.

A Right-click the zones or terminals in the terminal status to scan a terminal, all terminals, channels, volumes or reset.

Click check the host to check the host booting time. Click OK to complete the enquiry, Figure 2.26

Diagram 2.26

a. check terminal fault information (only for terminal 2070)

b. Click check terminal fault information view information, Figure 2.27. The following dialog box pops up showing a list of terminal fault information.

c.
d. enquire call station

Click 【enquire call stations】 to see which call stations are broadcasting or are online, Figure 2.28.

Tip: Double-click the call stations to perform query.
Right-click Call stations in 【terminal status】 to perform status enquiry or reset..

e. Stop the background enquiry

If you do not need to continue terminal query, click 【stop background enquiry】 to stop it. Figure 2.29
6.2.4 Programming Control

Program Manager can classify all the documents, description. The saved program files can be long-term used.

Click 【programming control】 to enter program management interface as shown in Figure 2.31.

Program edit. Edit in the list, each program containing up to 256 steps. Set up a new program before edit; click 【create a new program】 in the interface. Enter a new program name in the pop-up box, click 【OK】 to confirm.

The program procedure is as followed, as shown in Figure 2.31:

a. edit time from hour, minute to second, in 【time】 corresponding text box, format as 08:00:00.

b. select In the drop-down list of 【equipment】, the list contains power, MP3,tuner, zone-all zones,
zone-partition, zone-terminals etc.

c. Enter the name of selected equipment in the box 【name】 (users can enter the alias for user-friendly operation and memory).

d. Choose equipment numbers in drop-list of 【equipment number】

Power supply, audio sources can be selected in the programming control equipments from 1 --- 8. The ID is set by the equipment address.

Region --- partition number can be selected from 001 - 128.

Region --- Terminal number can be selected from 001-999.

e. Select different control mode channels in the drop-down list. Different devices have different modes.

Power supply: supply current serial port 1 timing control device selected --- Port 8.

Players: play modes of MP3, CD are loop, loop track, play all, play the track, stop, etc.; Radio has two modes: FM and.

Region: all zones, zones, terminal control channels can be chose from Channel 1 - Channel 7.

f. choose different implementation in 【track / channel】 drop-down list

Power:  Power on/of control

Player: the specified track or radio broadcast channels can be selected among 1-99 tracks or channels.

Region: Adjust sleeted channels volume of all zone, zones or terminals, volume level 0-50.

g. after the corresponding steps is completed, click 【Add】 , the programs will automatically be added to the table in the right side of the interface.

Diagram2.33

In the program editing process, users can modify or delete the program that have been edited. Open the program that needs editing, choose the program to modify in the right side of the interface. modify in the left the box,
and then click 【Modify】 to finish operation. Figure 2.34

Diagram2.34

The steps of delete a program is the same as modify it; users can modify or delete the program that have been edited.

2) Configuration. The edited programs will automatically be saved in a database. Users can configure and download the programs within a week or upload the existing programs in the host for saving. Click 【Configuration】 to enter the program to download, upload interface. Figure 2.35

Diagram2.35

A、download program. When we open the software there's no existing program, you can start programming in accordance with the steps in the above and save it; If you have an existing programs, directly click the 【program configuration】 to open the download interface, choose the daily program based on the daily requirements, downloaded programs to the host TF-2010, click the 【daily download】 or 【the entire week download】 , download progress prompt pops-up. Figure

== 20 ==
Diagram 2.36

Tip: the download process will take some time, please wait patiently.... Avoid cancellation of the download process when it is downloading. If you just would like to update or revise a day’s program, in order to improve download efficiency it is suggested to use a separate download.

B. upload programs. On the one hand it is used to test weather the programs download to the host TF-2010 is correct; on the other hand, it is used to upload the programs that have been downloaded in the host TF-2010. Select host programs (week *) to upload, enter the new program name or the original program name in the Save box, and click 【Upload】 the upload progress prompt bar pops-up, wait a certain time to complete the upload process. Figure 2.37

Diagram 2.37

6.2.5 Exit

When complete all the feature set, to exit the system, click 【Close】 on the upper right side of the interface. An
exit dial gouge pops-up, click 【is (Y)】 to exit the system, click 【No (N)】 to return system operation interface.

Figure 2.38.

Diagram 2.38

7、Performance indicators

<table>
<thead>
<tr>
<th>Model</th>
<th>TF-2008</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>~220V±10%/50Hz</td>
</tr>
<tr>
<td>Power consumption</td>
<td>300W</td>
</tr>
<tr>
<td>communication interface</td>
<td>9 pin serial port</td>
</tr>
<tr>
<td>communication protocol</td>
<td>RS-232</td>
</tr>
<tr>
<td>Communication rate</td>
<td>4800bps</td>
</tr>
<tr>
<td>Size</td>
<td>484X440X265mm</td>
</tr>
<tr>
<td>Weight</td>
<td>15Kg</td>
</tr>
</tbody>
</table>

Note: The IPC model and indicators pls refer to the actual IPC.
8. Common faults

No matter which device is not normal, first check whether the power is turned on, the indicator light is blinking.

A prompts window indicates the computer and the network communication is in failure.

Check whether the serial cable from the computer to the cyber nest system host is well connected; or whether it is damaged, such as mice chew, severe compression, damage, etc., If so, you need to purchase a new serial cable for replacement.

If the software can not control the system, detect whether computer communication cable is well connected.

If both cyber nest system and computer can not be controlled, check whether the control cable from the host to the next equipment is properly connected, whether the equipment address code is right. If necessary, pull a network cable directly to the device to operate independently.

No voice in the terminal

Check whether the volume is turned off; whether the audio equipment is in play; choose other channels (switch source) to see if there is sound; whether the cable has a problem.

Terminal beyond control

Check whether the terminal Server control network cable is properly connected. Detect whether the address code, zone code is in accordance with the operation.