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LINORTEK 01-910-00059 NETBELL NTG Network Multi-Tone Generator PA System Instruction Manual

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Generator PA System Instruction Manual

NETBELL-NTG QUICK SETTING INSTRUCTION

Thank you for purchasing the Linortek – NTG tone generator and controller. This powerful multitone generator can easily be wired into an existing PA system to schedule and play automated messages or play a pre-recorded message based on user defined conditions.

## Contents

FIND THE IP ADDRESS ON YOUR NETWORK

The Netbell is DHCP enabled, when a Netbell SERVER unit is first installed on your network, it automatically obtains a web address from your router via DHCP if your router is set up to assign one. If your router is not set this

way, it is suggested that you turn that feature on so you can operate the Netbell SERVER and assign it the IP address of your choosing. There are several ways to find the Netbell IP address on your network.

1. Using Discover Program to locate the IP address

Discover is our special designed program that will automatically locate your Netbell SERVER. The Discover is a Java program, Java runtime needs to be loaded to use this feature. Java can be found here: **http://java.com/en/download/index.jsp**). To download the Discover program, please go to: **https://www.linortek.com/downloads/supportprogramming/** Use of Chrome & Firefox browsers is recommended. If you prefer to use Internet Explore browser, please note that when you download the Discover program, Internet Explore saves this programs a Zip file by default. In order to use the Discoverer, you need to select Save as and rename the file as "Linortek Discoverer.jar" when you download with Internet Explore browser. When downloading the Discover program, sometimes you will see a popup warning message depending on your browser security settings, asking if you want to keep or discard this file, please click the Keep button as this is a Java program, it won't harm your computer. Once Discoverer locates your device, it will display:

1. IP Address
2. Host Name
3. MAC Address
4. Other Info:
   a).Blue LED (if on)
   b).Product Name
   c).Server Software Revision
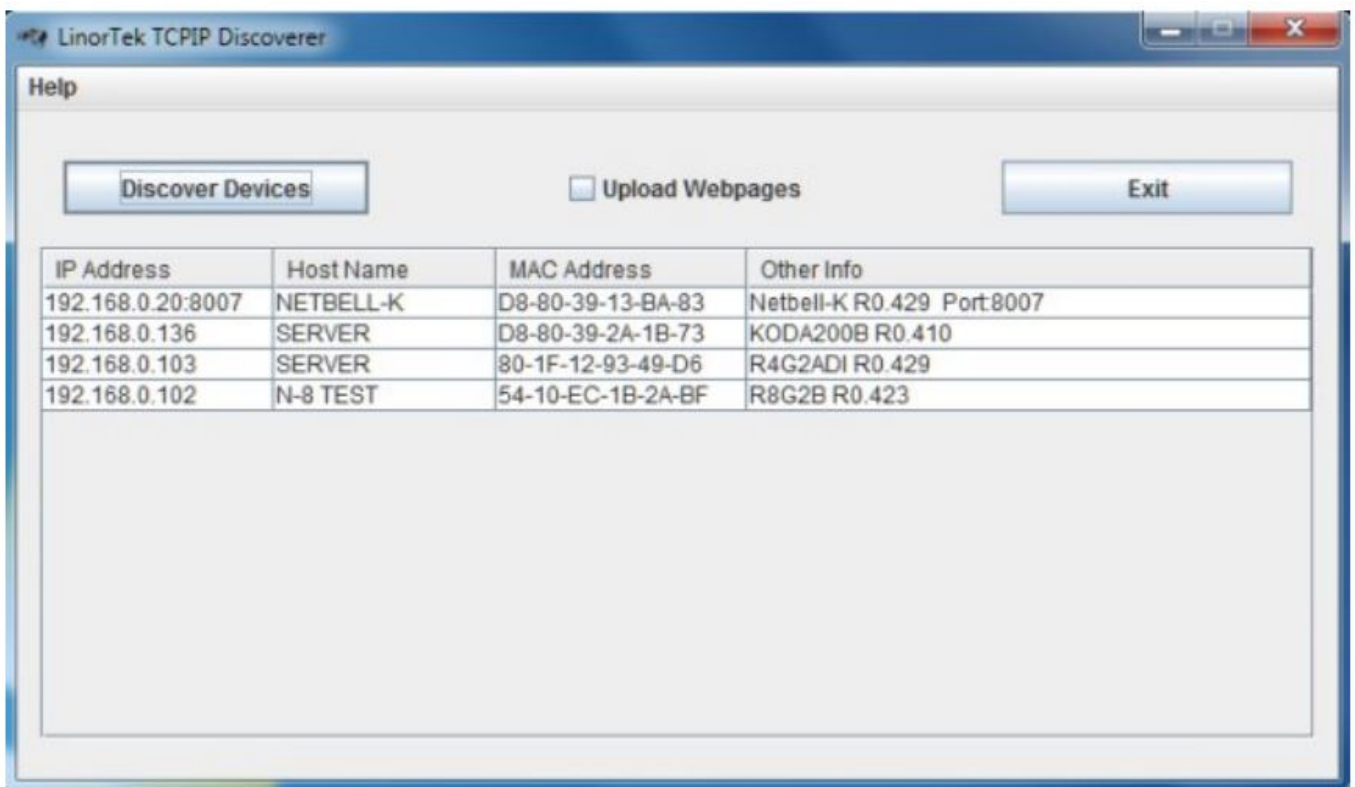
Click the device you want to use shown on the Discover program, launch the SERVER web pages in browser. Click Login button on the homepage. Default username/password is: admin/admin. You may change these as you desire or disable this feature in the settings menu.

2. Using cmd command on your PC to ping the IP address

If you can't make the Discover program to work, you can ping the SERVER to get its IP address on your network. Here is how:
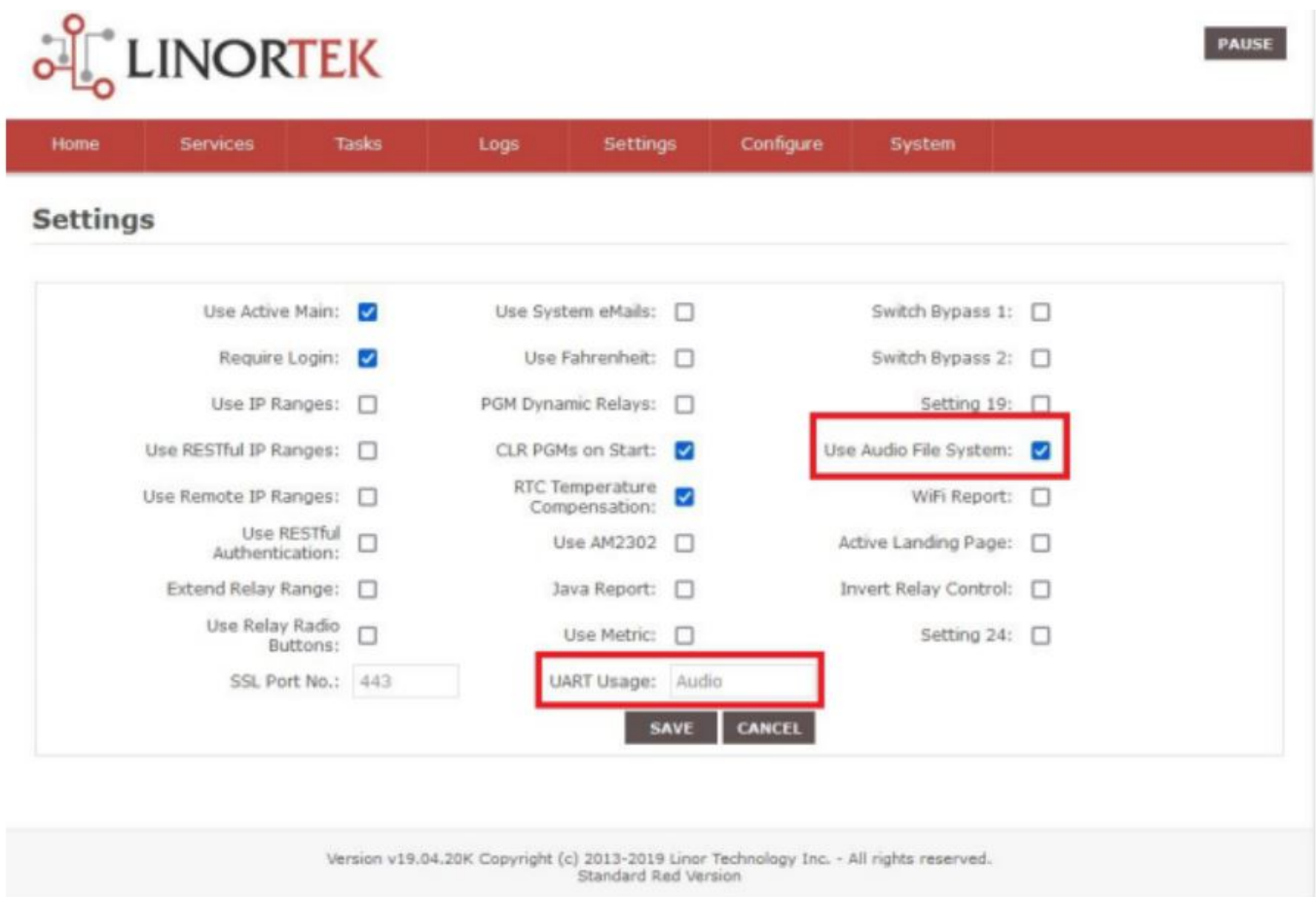
1. To bring up the run dialog, press the Windows key+R.
2. Or open the Start menu on your PC and type in cmd on search bar, select cmd program.
3. Type ping server and press Enter.

If the ping is successful, you should receive replies from the address that you are trying to ping. Open your browser and type in the IP address displayed on the ping window.

3. Connect directly to your PC to use the default IP address

If you still have trouble finding the IP address, you can connect the SERVER directly to your computer Ethernet port, TURN OFF the WiFi, open the browser, type in SERVER's default IP address 169.254.1.1 to access the webpage to setup your device. Once logging in the page, you can set a static IP address by going to Configure Network Config page. ENABLING THE AUDIO FILE SYSTEM Upon logging into your NetbellNTG for the first time you will need to activate the audio system.

1. Navigate to the SETTINGS dropdown menu, then click SETTINGS.
2. Enter Audio in the UART Usage field (not case sensitive).
3. Check the box Use Audio File System. Click SAVE, the device should start playing through the files on the SD card now.

SETTING TIME AND DATE

When first configuring your NetbellNTG you will need to verify the time and date on your home page. Your

NetbellNTG is configured by default to use Eastern Standard Time (GMT5) and will apply correction for Daylight Savings Time. If your location is not on Eastern Time zone, please make sure to set your Time Zone first. CAUTION: Incorrect Time Zone may cause the BELLS not ringing at the right time. To set your Time Zone, go to Settings Time/Date page from the dropdown menu, enter your local Time Zone (for example, 5 for Eastern Time Zone, 6 for Central Time Zone, 7 for Mountain Time Zone, 8 for Pacific Time Zone), make sure the Use NTP Update box is checked (when this box is checked, the Netbell will update its time from the NTP server every 30 minutes by default.), then click SAVE button. The system will update its time at its next interval (30 minutes). If you want to get immediate update, you can manually set it to the standard time on the Time box (one hour BEHIND your current time if you use Daylight Savings Time). For example, if you current time is 9:35am, you should put 8:35am on the Time box. If you wish to use your internal NTP server, please check the How to Use Your Internal NTP Server for Linortek Devices for instructions. CAUTION: Incorrect settings might cause your devices unable to update the time from the NTP server. The instruction can be downloaded here: **https://www.linortek.com/download/HowtoUseYourInternalNTPServerforLinortekDevices.pdf**

ASSIGNING AUDIO TONES TO RELAYS

As we use a relay to trigger a tone on the NetbellNTG controller, the relay is just a tool for this purpose and not functioning as a physical switch in this case. You can assign the audio tone to any relays (18), so you can schedule that tone from the scheduling page (Services Bells page). Tip: when you go to Services Relays page, only 4 relays are visible. To enable 8 relays, go to Settings Settings page, check the Extend Relay Range box, then click SAVE. To view all 8 relays, go to ServicesRelays page, change the relays4 to relays8 from the URL. For example, the URL on your Relays page might look like this: http://172.16.10.105:8007/p/relays4.htm, you can change it to: http://172.16.10.105:8007/p/relays8.htm to see 8 relays. The device comes installed with 40 default sounds from the factory, these sounds can be heard at our website **www.linortek.com**, navigate to Download page, click NETBELL STANDARD SOUND LIST. If you prefer to use a custom sound or your pre-recorded message, you can do so by adding those sound files to the SD card up to 10 hours as long as you convert the messages to OGG format (The NetbellNTG uses .ogg file format for the playback of audio). If your custom sounds or messages are not in this format you will need to convert the file to an .ogg file using a free program called Audacity. For instructions on how to create customer sounds for the NetbellNTG, please refer to Creating Custom Sounds section of the NetbellNTG User Manual. Video Tutorial is also available at: **https://www.linortek.com/videotutorials/**. We use the tone named "GOODMORN" and assign this tone to relay 1 (bell#1) for this instruction.

1. Navigate to Tasks page on your NetbellNTG
2. Click the Edit icon at the end of the first available line
3. Enter a name (if desired) in the Schedule Name field
4. Check the Use box
5. Set Device A to RELAY
6. Set Data A to 01+ (This refers to the Bell 1 on the bell schedule page for bell 2, 3, … use 02+, 03+, …)
7. Set Device C to SEND UART
8. Set Data C to PGOODMORNOGG (This must be an 8character name preceded by P and followed by OGG. This must be capitalized)
9. Set Action to ON, click SAVE

Now you have assigned a tone to relay 1. To test the sound manually, go to Services Relays page, click the red dot under State column, when it turns green, the assigned tone should be played through your speakers.

SCHEDULING AUDIO PLAYBACK

Once the audio system is enabled, a tone is assigned to a relay, you can then program your NetbellNTG for audio playback. This can be done using the NetbellNTG Bell Schedule, or by using an external signal such as a push button switch as a trigger. CREATING A BELL SCHEDULE FROM THE BELLS PAGE Each NetbellNTG can set up to 500 bell event schedules. To add an event schedule, navigate to the Services dropdown menu, then select Bells, go to Add section which is located at the bottom of Bells page. You will see the following page:

Name: The name of your schedule, 15 character max (Use letters and numbers only)
Time: Select the time from the drop down box for your schedule (24hr format) (HH:MM:SS)
Duration: You can skip setting the duration for your NetbellNTG because the max duration the NetbellNTG can play depends on the length of the audio file. For example, if the audio file is 10 seconds, it will continuously play for10 seconds no matter what duration you set here. Click Add button, your first schedule will show up. The schedule is applied to Bell 1, 2, MF by default. You can change it by clicking the pip under Bell and Day column, depends on which relay you assign the tone to and what day (from Sunday to Saturday: S M T W T F S) you want the schedule to be used. The selected bell will show as GREEN (otherwise GREY).
If you want to add a schedule to a specific date using the calendar scheduling. The day of the week is disabled when this feature is
used, a date will be displayed instead.
If you have multiple Netbell devices and you want to have the same schedules for each device, or you want to save a copy of your current schedules, you can download/upload the schedules into the Netbell system using .txt format after creating your full schedules. For instructions of how to use the Download & Upload Bell Schedule function, please refer to the Scheduling Audio Playback on the NetbellNTG Instruction Manual.

USING A PUSH SWITCH TO TRIGGER EMERGENCY TONE

You may also program your NetbellNTG to play a tone upon input from an external trigger such as a push button for emergency. For detailed instructions on how to use a push switch to trigger emergency sound, please refer to Using an External Trigger for Emergency on NetbellNTG, which can be downloaded at our website: **www.linortek.com**, navigate to Downloads Documentation page.

USING THE NETBELLNTG AS A STANDALONE DEVICE

We strongly RECOMMEND you to connect the Netbell to your network while using it so that you can get the most accurate time from the NTP server for your Netbell server. When you install the Netbell at the location where network is not available, you can use it as a standalone device. If you intend to keep your NetbellNTG off your network after configuring, you will need to uncheck Use NTP Update. To dyable the NTP update, go to Time/Date page, uncheck the Use NTP Update box so that the SERVER won't look for the NTP server to update its time when it's used as offline. You will then have to manually set the time to account for daylight savings, and adjust the time periodically to account for time creep, finally click SAVE button. Now you can install the Netbell at any locations as you like, it will ring your bells at your schedules.

When you use the Netbell as a standalone device, and find the time running faster or slower after a certain period, you can adjust the Real Time Clock (RTC) Crystal Frequency value from Settings Time/Date page to adjust the time.

Here is how to adjust the RTC Crystal Freq.:

For example, your current RTC Crystal Freq. is 32769.8, and you are losing one second a day, then you need to change the RTC Crystal Freq. to be 32769.9, and check to see if you still loose the time in one or two days later. If the clock is one second fast, you need to change the RTC Crystal Freq. to be 32769.7 to adjust the real time. Please note, do not change the number too big at each time. 12 second will be good.

For more information on Netbell User Manual, Video Tutorials for installation and schedule settings are available on our website Download page: **https://www.linortek.com/downloads/**

CONTACT SUPPORT TEAM

If you need assistance on setting your devices, please feel free to contact us:

Phone: 13364856199

Email: **support@linortek.com**

You can also start a chat from our website to reach our support teams.

Video Tutorials for installation and software configuration are available on our website Download page. For quick access to the videos, use your smartphone to scan this QR Code:

www.linortek.com

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Documents / Resources

	LINORTEK 01-910-00059 NETBELL NTG Network Multi-Tone Generator PA System [pdf] Instruction Manual 01-910-00059 NETBELL NTG Network Multi-Tone Generator PA System, 01-910-00059, NETBELL NTG Network Multi-Tone Generator PA System, PA System

References

- **java.com/en/download/index.jsp**
- **Linortek - Remote Control Monitoring Solutions for Industrial Equipment**
- **Downloads/Resources**