



TimeTrax™ Sync  
ToneQ Tone Generator  
User Guide

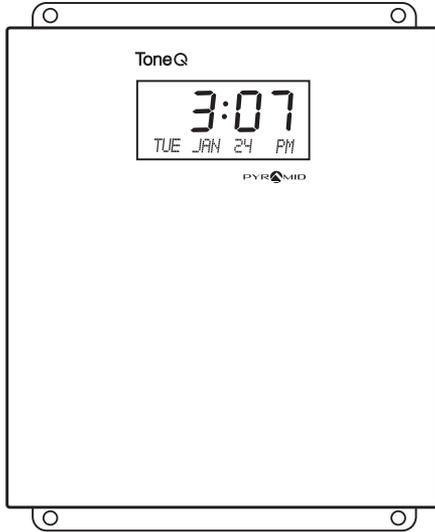


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**PRODUCT OVERVIEW**

Thank you for choosing the TimeTrax™ Sync ToneQ Tone Generator.

TimeTrax™ Sync ToneQ Tone Generator and TimeTrax™ Sync Software empowers a business with a way to play back prerecorded audio tones, or prerecorded messages, with an event schedule over standard paging systems at pre-scheduled times. The TimeTrax™ ToneQ can easily pair with interface devices such as standard paging systems and phone paging systems. The primary application of this product is to schedule tone outputs across an event schedule specifying specific days of the week and times for the audio events.

ToneQ Systems are supported with:

- Two sets of included relay contacts to control audio playback and muting
- BCD output to allow the ToneQ Generator to interface with Pyramid Wired Clocks for total synchronization of your facility
- Four independent 24V DC bell zones

ToneQ Tone Generator can operate as a stand-alone device once a Tone or Bell schedule is uploaded from the included TimeTrax™ Sync Software.

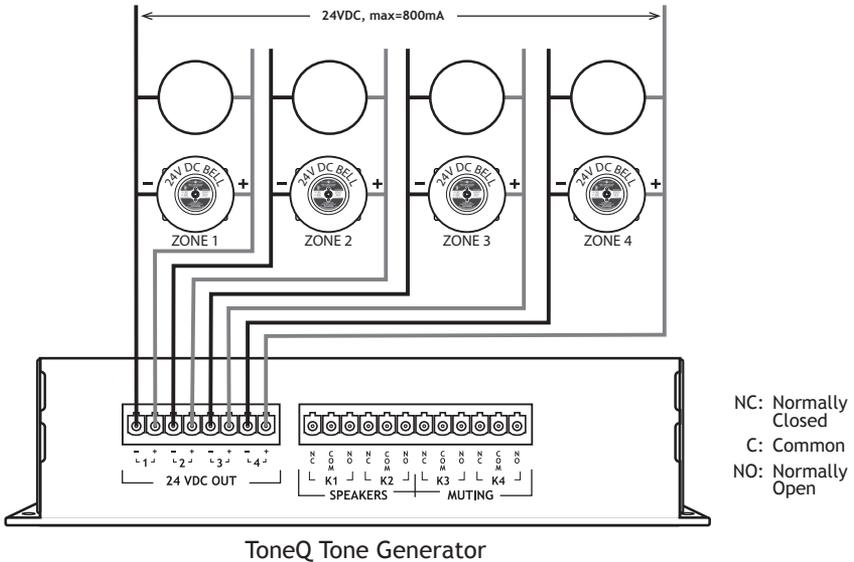
To download the Sync software contact: [WirelessSales@ptitime.com](mailto:WirelessSales@ptitime.com)

**AUDIO**

The audio portion consists of two types of volume controlled audio output: RCA and two wire balanced outputs, which is typically connected to an audio amplifier.

<b>OUT:</b>	Stand RCA audio output Line level: 316 V RMS, -10 dBV Nominal
<b>BAL-OUT:</b>	Standard 2 wire balanced output Line level: 1.23 V RMS, 4 dBu
<b>VOLUME:</b>	Control for both types of outputs

**BELLS(24VDC)/ZONES**



**PHONE OUT**

RJ-11 connector provides for connection to a PBX paging systems using a standard analog phone line (POTS). The paging code is automatically dialed by ToneQ and audio is output per the preset schedule.

To add your specific Dial String in the software, go to **Clock, Hardware Manager**.

Click on Edit Global Settings. In the upper right hand corner, click on Advanced.

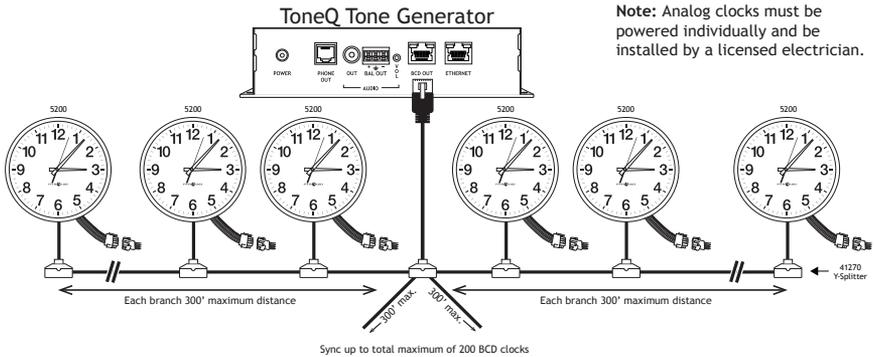
Add your dial string under **ToneQ Paging Dial**.

If you want a few seconds of pause before the announcement starts, add one comma after your dial string for every second of delay you desire.

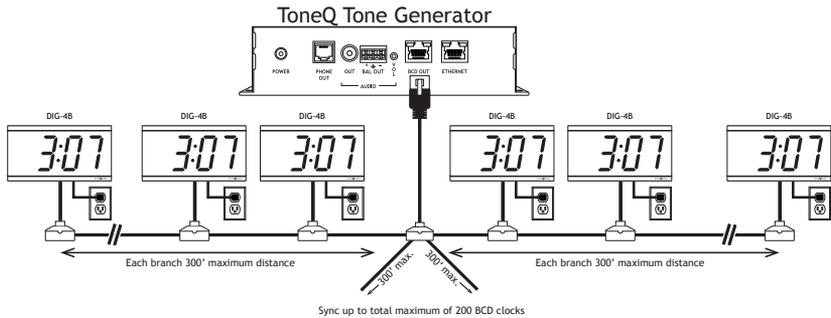
For instance. If your dial string is 449 you would add **449,,,** for a four second delay before the message or tone is played.

**BCD OUT**

Provides time output to various compatible BCD Pyramid clocks. Part #'s 5200 (13" analog), 5217N (17" analog), DIG-4B, and DIG-6B.



**Note:** Analog clocks must be powered individually and be installed by a licensed electrician.



**AMPLIFIER CONTACTS**

CONTACTS:	OUTPUT:
K1, K2	240V, 10A max. mechanical normally open or normally closed relay used for single or two zone speaker
K3, K4	150V, 50mA max electronic normally open or normally closed relay used for single or two amplifier muting

**ETHERNET**

Computer connection for TimeTrax™ Sync Software.

**SOFTWARE DOWNLOAD**

Contact Pyramid Time Systems for software access via download at:  
 Phone: **888-479-7264**  
 Email: **WirelessSales@ptitime.com**

SYSTEM REQUIREMENTS	
Part Number	SASDLCWDXX - TimeTrax Sync™ Software
Operating	Windows 10 or higher
PC	X64 Pentium iV 2.0 Ghz or greater
Memory	Min. 8GB, recommended 16GB or greater
Free Space	20GB or greater
Internet Browser	Chrome or Firefox

Software should not be installed on a Virtual Machine or a Server.

Please be sure you are logged in to the PC or Laptop as the Admin when you install the software.

Once your software is installed, you will have a TimeTrax Sync icon on your desktop.

Click on the icon and login with: Login ID: **ADMIN** Password: **PTI**

Connect one end of your Ethernet Cable into the Ethernet Port on the ToneQ and plug the other end into a DHCP enabled port, switch or router. Connect the ToneQ to power.

Your device should be automatically discovered and marked as active as shown below.



If your device is not automatically discovered, reboot the power on the device and write down the IP address that scrolls across the screen. In the software, click on Add Device and enter the IP address the ToneQ has rec'd. Click on Search. Your device should not show a green check mark under OK as shown above. Click Save and Close.

Once you have configured your phone paging system, audio system or Bell Zones, you are ready to begin scheduling your events.

## BELL SCHEDULE

Click on Event Schedule.

Click on Add Schedule

Enter a **Schedule ID**. Example: M-F. Click Save.

Click on **Add Event**

Choose the **Event Time** for the bell to ring.

Choose the **Event Duration** for how long you want the bell to ring.

**Select Days** you would like the bell to ring.

**Select Zones** you want the bells to ring in for this event.

Under **Tone**, click on **No Tone**.

Click **Save & Close**

If you need to schedule more bell events, click on Add Event and continue to complete your entire bell schedule.

Once your full schedule is complete, click on Save & Close.

Click **UPLOAD**.

Upload Event Schedule

\* Choose Event Schedule To Associate with Device:  \* Selecting NO EVENT SCHEDULE will clear Schedule from the Device

Devices associated with selected event schedule

Select	Device Name	Current Event Schedule	Model	Firmware Version	MAC Address	IP Address
<input checked="" type="checkbox"/>	TONEQ+	NO EVENT SCHEDULE	PBR3000	5.1670	00:17:f6:01:86:de	192.168.1.11

Click on the Schedule you want to Upload and Choose ToneQ as the Device you want to upload to.

Click **Upload & Close**.

**NOTE: ONLY ONE SCHEDULE MAY BE ASSOCIATED WITH THE TONEQ DEVICE AT A TIME.**

## TONE SCHEDULE

Click on **Event Schedule**.

Click on **Add Schedule**.

Enter a **Schedule ID**. Example: M-F

Add Event Schedule

General

\* Event Schedule ID:

Event Schedule ID Description:

Event Details

## TONE SCHEDULE (CONT.)

Click on **Add Event**

Select	Tone Name	Tone Playback
<input checked="" type="radio"/>	PTL_ALARM1	▶ 0:00 / 0:15 ——— 🔊 ⋮
<input type="radio"/>	PTL_ALARM2	▶ 0:00 / 0:15 ——— 🔊 ⋮
<input type="radio"/>	PTL_ALARM3	▶ 0:00 / 0:15 ——— 🔊 ⋮
<input type="radio"/>	PTI_SCHOOLBELL1	▶ 0:00 / 0:14 ——— 🔊 ⋮
<input type="radio"/>	PTI_SCHOOLBELL2	▶ 0:00 / 0:12 ——— 🔊 ⋮

Choose the **Event Time** for the tone to play.

**Event Duration**, choose 0. This will ensure the entire tone is played. (max. 15 secs)

**Select Days** of the week for that event.

Under **Select Zones**, uncheck all zones.

Under **Select Tone**, choose **Selectable Tone** and check the tone from the list you want to use.

PTI has uploaded some tones for you to use or you may also upload your own custom tone MP3 or WAV file. (See **ADDING YOUR OWN TONES** section.)

Click **Save & Close**.

If you need to schedule more tone events, click on **Add Event** and continue to complete your entire tone schedule.

Once your full schedule is complete, click on **Save & Close**.

Click **UPLOAD**.

Upload Event Schedule

Upload Upload and Close Close

\* Choose Event Schedule To Associate with Device M-F \* Selecting NO EVENT SCHEDULE will clear Schedule from the Device

Devices associated with selected event schedule

Select	Device Name	Current Event Schedule	Model	Firmware Version	MAC Address	IP Address
<input checked="" type="checkbox"/>	TONEQ+	NO EVENT SCHEDULE	PBR3000	5.1670	00:17:f6:01:86:de	192.168.1.11

Click on the Schedule you want to Upload and Choose ToneQ as the Device you want to upload to.

Click **Upload & Close**.

**NOTE: ONLY ONE SCHEDULE MAY BE ASSOCIATED WITH THE TONEQ DEVICE AT A TIME.**

### ADDING YOUR OWN TONES

If you would prefer a different tone other than the ones we have provided, please follow the steps below.

Find or record your own WAV or MP3 (max 15 secs) tone and save it to your PC.

Click on **Administration** on the top right corner and Select **Add/Remove Customer Tones**.

Click on **Import Tone**.

Name your tone.

Click on **Choose file** and navigate to your file.

Double-click on your file to import it.

Click **Save and Close**.

Your tone will now be on the list of options when setting up your event schedule.

You can only remove tones from the list that are not currently in use.

## CURRENT EVENT SCHEDULE

To view what your current event schedule is, click on **UPLOAD** and view as shown below.

Upload Event Schedule

Upload Upload and Close Close

\* Choose Event Schedule To Associate with Device:  \* Selecting NO EVENT SCHEDULE will clear Schedule from the Device

Devices associated with selected event schedule

Select	Device Name	Current Event Schedule	Model	Firmware Version	MAC Address	IP Address
<input checked="" type="checkbox"/>	TONEQ+	m-f	PBR3000	5.1670	00:17:56:01:86:de	192.168.1.11

## CHANGING OR DELETING AN EVENT SCHEDULE

If you create a new schedule and you want to change from your existing schedule, you just need to upload your new schedule and it will override the existing schedule.

If you want to completely delete a schedule:

1. Click on **Event Schedules** in the upper right
2. Click **Remove**
3. Confirm Remove
4. Click **Delete**
5. Click **Yes**

## TONEQ PURPOSE

TONEQ is a “stand-alone” device that enables audible signaling at programmable times during the day.

This device can playback audio, close/open relay contacts, and switch power to mechanical signaling devices.

## HARDWARE FUNCTIONS

All of the functions described below can be used simultaneously, however, most applications require using only one or two of the functions.

### Functions:

- An RCA jack to connect to an audio power amplifier.
- A balance pair to connect to an audio power amplifier.
- A POTS telephone interface with DTMF dialing that allows connection to a telephone driven paging system.
- Relays to provide amplifier muting.
- Relays to provide speaker switching.
- Switched 24 VDC output 'zones' to power signaling devices directly or to actuate 24V power relay(s) that can then run 120/240V devices.
- Ethernet Interface for getting time and uploading bell and tone events from the TimeTrax™ Sync Software download included with purchase. See page 5 for instructions).

## SPECIFICATIONS

Part Number	TONEQ
Time Source	NTP Server
Operating Temp	-30F(-34C) to 130F(53C)
Display	LCD day, date, and time
Automatic Time Adjustment	Short months, leap year, and daylight saving time
Housing	Textured powder coat surface metal
Color	Black
Dimensions (W x H x D)	6.125" x 6.875" x 1.75" (15.55cm x 17.46cm x 4.44 cm)
Weight	2.3lbs (1.04kg)
Shipping Weight	3.8lbs (1.72kg)
Mounting	Wall
Compliance	FCC, Part 15, section 15.247 FCC# ID# WC7H9ALG1
Power Input	AC Adapter 110-240VAC, 50/60Hz, 24V, 1.5A UL Listed
Power Consumption	<2W
Speaker Relay (Switching)	K1 & K2: 10 Amps max. (NEVER use for a 120VAC circuit)
Muting Amplifier Relay	K3 & K4: 1 Amp max.
Audio Output - RCA Jack	Standard consumer audio level (-10dBV or 0.316V)
Audio Output - Balance Pair	Standard professional audio level (+4 dBu into 600Ω or 1.228V)
POTS telephone interface, RJ11 port	Conforms to FCC and ITU standards
Independent Bell Zones 24VDC Outputs	4 zones, 24VDC each, total 1 amp for all zones
Event Capacity	100 events
Tone File Format	WAV or MP3 (up to 15 seconds each)
Clock Synchronization Capacity BCD	200 Pyramid Analog or Digital hard wired clocks
Synchronization Distance	up to 300 feet
Ethernet Interface, RJ45 port	10/100TX hardwire interface, DHCP & NTP conforming to IETF standards
Includes	ToneQ Tone Generator, TimeTrax™ Sync software download, Power Supply, Ethernet cable, User Guide
Warranty	3-year manufacturer's limited warranty
Guarantee	30-day money back guarantee

NOTES: Compatible UL approved multi-voltage 24VDC relay is available from Pyramid Part# 43106.

**ACCESSORIES**

DIG-4B	4" X 4-Digit Red LED Digital Clock, 6ft power cord
DIG-6B	4" X 6-Digit Red LED Digital Clock, 6ft power cord
41357G	4" X 4-Digit Red LED Digital Clock, free power leads
61357G	4" X 6-Digit Red LED Digital Clock, free power leads
5200	13" Analog Click 12-Hour Face, free power leads
5217N	17" Analog Click 12-Hour Face, free power leads
43124	Power Adapter 100-240VAC, 50/60 Hz, 24VDC 1.5A
41269	RJ45 BCD Cable, 50ft
41314	RJ45 BCD Cable, 100ft
41270	RJ45 Y-Splitter Cable
41361	6" 24VDC Bell
41392	8" 24VDC Bell
41362	24VDC Horn
41449	Bell Wire, 100ft Spool
41450	Bell Wire, 100ft Spool

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# SIMPLE : SMART™



## CONTACT US:

For more information, visit [pyramidtimesystems.com](https://pyramidtimesystems.com) or call our technical support team at **888 479-7264** during regular business hours: **8:30am-5pm EST, Monday-Friday.**

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