



**COMPUCHIME CARILLONS**  
**P.O. BOX 8304**  
**FORT WAYNE INDIANA**  
**888-823-5548 OR 260-249-4108**  
**WWW.COMPUCHIME.COM**

*Using today's technology and yesterday's bells to offer you an alternative low cost, great sounding bell system*

## FEATURES

- \* Atomic clock
- \* Wireless remote & F1-F12 keyboard control
- \* User defined bell schedules with a large variety of commands
- \* 2 way bell speaker containing 3 horns & 1 bass speaker
- \* Lifetime membership to bell library on the web
- \* Auxillary input for carillon keyboard / microphone
- \* Internal monitor speaker
- \* 14" or larger LCD flat screen display
- \* 15"x11"x10" computer
- \* DVD / CD player
- \* 1000 watt rack-mount amplifier
- \* 10 band digital equalizer

## DESCRIPTION

The CompuChime electronic carillon is a fully digital computer controlled bell delivery system. Using digital files and CD formats, CompuChime stores 6000 carillon bell hymns, swinging bells, Westminster chimes, hour strikes, tolls and peals. The cost saving open architecture of the CompuChime carillon allows repair by local technicians after the warranty has expired. The lifetime membership to our on-line bell library means no waiting for new music or bell sounds.



## BELL SPEAKER

Due to their superior sound properties, 2 way and 3 way speakers have been used with home stereo systems for many years. Horns alone cannot reproduce the entire audio spectrum no matter how exceptional your stereo or carillon may be. Try turning down the bass level on your home stereo, and you will hear the impact the bass frequencies have on the music quality.

The 2 way bell speaker delivered with your CompuChime system, produces authentic bell sounds unlike anything possible with traditional horns. The rich lower tones created by the carillon resonate in the bell cavity producing an authentic large bell sound. These lower tones not only carry farther, but also create a better quality bell sound. The bass speaker & 3 horns in our bell, produce sound energy loud enough for a 1 mile audience.

## REMOTE CONTROL

The remote control delivered with your CompuChime carillon, is a radio frequency device with a range of 100 feet. The remote contains a rotary switch to select the mode (CD, PA, CARILLON, MOVIE or A.C. POWER) of operation. The PA and CD modes allow you to play music files and CD tracks on command. These features are used primarily for funeral tolls, wedding bells, wedding music, peals, call to worship bells and worship music, but, the remote may be extended to other purposes such as choir backup etc.

## BELL SCHEDULE

When instant bells and music are needed on command, the remote is ideal. All sounds controlled by the remote may also be automated to play any time / any day you choose. This versatile bell schedule feature makes CompuChime stand out above all the others. Westminster chimes, time strikes, peals, call to worship and carillon music, CompuChime has them all. Use the easy schedule calendar to play music or bells for each day of the week (Monday - Sunday) or specific days of the month.

## SPECS

Wireless remote  
range: 100 feet

Atomic clock accu-  
racy: Less than 1 sec-  
ond error in 10 years

Bell speaker:  
Size: 22" diameter  
base  
Weight: 35 pounds  
Range: 1 mile  
Power: 400 Watts  
Impedance: 8 Ohms

Amplifier power:  
400 watts rms / 1000  
watts peak

Electrical: 110 V ac or  
220 V ac

Screen: 14" LCD flat  
screen

Processor speed:  
1.8 GHZ or above

Memory: 512 Mb

Disk storage:  
40 to 80 Gb

Computer dimensions:  
16"x12"x10"

## SCHEDULE CALENDAR

All activity during the day is controlled by commands located in the schedule window. After the operator creates a schedule, it must be saved to become permanent. When schedules are saved, they may be used again on another day such as Sunday, holidays or special events. The schedule calendar pictured below, simplifies this saving process.



The operator can save and use a schedule again by selecting a day of the week or month, and pressing the **Insert** key on the keyboard. After the schedule has been saved, an asterisk \* appears in the selected box. If the CompuChime system encounters a scheduling conflict while running, the software will choose a schedule in the following order of priority:

- 1) Day of Month (Highest Priority)
- 2) Weekday for selected month (Sun-Sat)
- 3) Weekday for all year (Sun-Sat)
- 4) Default schedule (Lowest Priority)

Saved schedules may be viewed by selecting a box and pressing the **PageUp** key on the keyboard. Schedules may be removed by pressing the **Delete** key. Once deleted, the asterisk \* disappears.

## MAIN MENU & CLOCK

The CompuChime main menu is pictured on the right. Pull down menus labeled **File**, **Sound**, and **Help** are located in the upper left corner of the menu. These pull down menus operate in the traditional fashion common to all Windows software. A tool bar located just below the bells, contains buttons with commands similar to the pull down menus. The white screen located in the center of the menu is where all the bell schedule commands are located. The commands in this schedule window are inserted by the operator using the **Function Select** and **Time Select** spin dials, and the **Insert Command** button located in the tool bar.

The time display just below the right bell may be clicked with your mouse to open the clock menu pictured at right. The clock menu allows the operator to speed up or slow down the clock, and set the time. However, a complete system purchase includes an atomic clock that keeps the time accurate to better than 1 second in ten years, making this feature unnecessary.



The atomic clock contains a wireless receiver that is synchronized to the atomic clock standard in Colorado. Therefore, it never requires setting or daylight savings adjustments.

# SCHEDULE WINDOW

The schedule window shown at right is from the center of the CompuChime Main menu. The schedule window has been expanded to show all the commands without using the slider control bar. These commands are responsible for the automated playing of Westminster chimes, time strikes and carillon bell music during the day. Above the schedule window is the name of the sound file or CD track that plays while the system is operating. Below the schedule is the file name of the schedule that is used for the day.

The first 10 commands of this schedule are bell commands. These commands are setup to play a Westminster chime at the top of the hour, followed by a bell strike time announcement and then two carillon bell hymns randomly selected from the Random1 directory. This sequence of events will occur 3 times a day (8AM, 12PM and 6PM).

The last 12 commands inserted in this schedule are used by the remote control. This schedule has been setup to play a 3 minute call to worship when pressing button 1 on the remote or F1 on the keyboard. The remaining 11 files are played by pressing remote buttons 2 - 12 or function keys F2 - F12.

This example shows how bell sounds and music may be controlled using the remote device. This same technique may be used to play alarms for security purposes. Unauthorized entry and University campus emergencies (shootings) are two common examples where our remote device has served as an alarm.



# BELL SPEAKER

An inside and outside view of the bell speaker is shown below and at right. If you look carefully, you can see the 3 horn speakers mounted inside the bell and facing outwards through the holes. The interior view of the mounting plate shows the bass speaker, crossover networks, matching transformer and circuit board. The horns are mounted on the other side of the mounting plate. Combining the speakers and circuitry in a mutual bell housing has several advantages:

- 1) All the speakers and circuitry are protected from the elements
- 2) The bass speaker contains a resonant cavity
- 3) All the circuitry is in a single, convenient location
- 4) The speaker assembly only requires a single mounting hook to install.



The crossover circuits in the bell speaker serve a dual purpose. They increase the efficiency of the speaker assembly, while protecting the speakers from damage.

Speaker systems not containing crossover circuitry are inefficient. When power is delivered to a speaker outside of the intended audio band, a large amount of energy is lost in the voice coil from heat. This heat is



not only wasteful, but also destructive to the speaker. Another failure mode common to horn speakers occurs when operating the horn below the designed audio band. This type of failure results in excessive voice coil movement and eventually tears the diaphragm apart. In addition to crossover protection, CompuChime bell speakers contain MOV transient protection and resettable fuses. These components prevent damage to the speaker caused by static discharge and over driving the speakers. Customers requiring speaker runs greater than 120 feet, may purchase bell speakers with line transformers installed. Please let us know in advance when purchasing the system.

# HARDWARE

The secret to making CompuChime inexpensive is to start first with an “off the shelf” computer. The technology in computers has been around for many years. Reliability and cost have improved considerably, making computers a viable component in many products. When you consider the advantages in a computer based product, you soon realize why computers have become so important in our lives. Versatility and open architecture are two key ingredients in many computer based products. By simply replacing the software and adding new peripherals, it is possible to transform the computer into an entirely different product. The ability to download CompuChime software updates from the internet has allowed us to improve and develop new features for your instant access. The open architecture aspect has made technical detail of computers available to the public. If your product warranty has expired and repair of your computer should ever become necessary, a local technician can repair the product for you.

Pictured at right is a view of the front left side of the CompuChime computer with the side panels removed to expose the internal hardware. The internal monitor speaker, motherboard and power supply are shown visible here.



A right rear view of the CompuChime computer is shown on the left. The mounted CompuChime circuit board can be seen along with the hard drive, memory and CPU.

# PRODUCT PRICE LIST

ALL PRICES INCLUDE SHIPPING AND 5 YEAR WARRANTY



## COMPLETE DESKTOP CARILLON SYSTEM

Includes Access To Bell Library

**\$3495.00**



## COMPLETE LAPTOP CARILLON SYSTEM

Includes Access To Bell Library

**\$3995.00**



## DESKTOP CARILLON REPLACEMENT

This is a minimum system.

No speakers, amp, clock or remote

Includes Access To Bell Library

**\$1995.00**



## LAPTOP CARILLON REPLACEMENT

This is a minimum system.

No speakers, amp, clock or remote

Includes Access To Bell Library

**\$2495.00**

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ALL PRICES INCLUDE SHIPPING AND 5 YEAR WARRANTY



**2 WAY, 400 WATT BELL SPEAKER**  
**\$695.00**



**400 WATT RMS (1000 PEAK) AMPLIFIER**  
Bridged Or 2 Channel Operation  
**\$475.00**

## HARDWARE UPGRADE

Even though our products continue to have a 5 year warranty, we occasionally receive requests for hardware upgrades on older models and systems without advanced features. This includes the atomic clock, remote control and sound improvements. This service also includes installation of current software and new songs.

**Note: Please include your Operating System when returning product for upgrades.**

**\$495.00**



## PEALS & TOLLS CD2

This CD contains 30 minutes of continuous bell peals and 30 minutes of tolls.

**\$24.95**



## BASIC BELL CD1

This CD contains bell sounds commonly used by the church community. See our web site for a full list of songs.

**\$24.95**

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