

# APOLLO<sup>®</sup> III

Internet connected bell & clock controller



*User-friendliness  
by application of today's technology*



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# Feature overview APOLLO® III

## Large touch screen

*Optimal user-friendliness*

## LAN internet connection

*Remote programming and service*

## Compatible with PC, tablets and smartphone

*IOS, Windows, Android*

## Time sync with NTP server

*DCF or GPS receiver*

## Bus system for tower equipment

*UTP cable, fiberoptic, radio waves.*

## Compatible with international standards

*MIDI, USB, LAN, NTP, VNC, (S)FTP*

## Sound files

*Programmable messaging*



## Carillon and chimes control

## Tower clock control

*Auto DST switchover*

## Church bell control

*Respect for local traditions*





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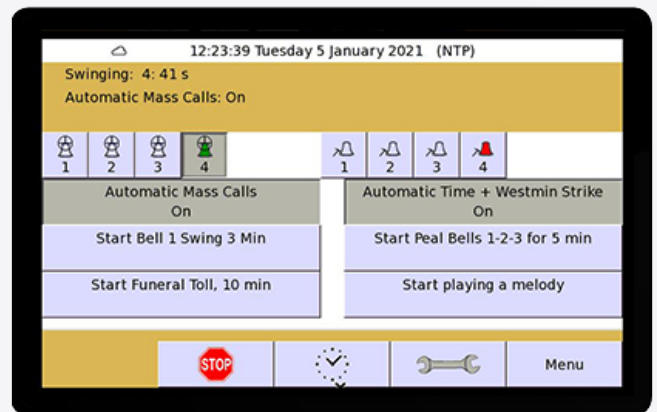
## Large touch screen: 7 inch / 18 cm

*Optimal user-friendliness*

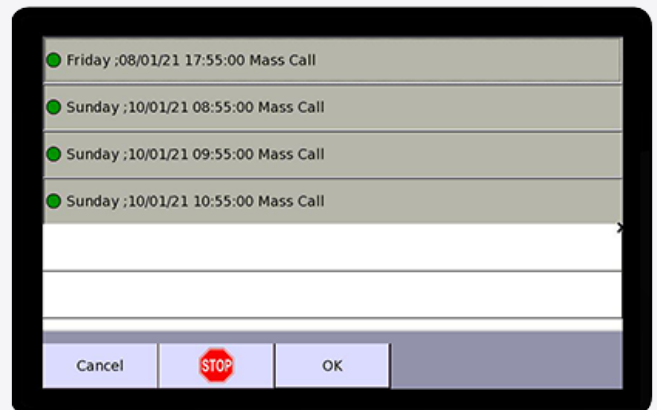
**Command table:** to ensure easy operation, the touch screen command table shows the real bell configuration of the tower, and its real time activity. The ongoing bell ringing events are shown on the bell symbols and also by displaying their sequence names.

**Function keys:** the installer provides an end-user menu composed of up to 66 custom-made keys that are chosen according to local ringing traditions.

**Diary function key:** when pressed, the next upcoming automatic bell executions are listed in chronological order, and may be edited.



Command table with function keys



Diary

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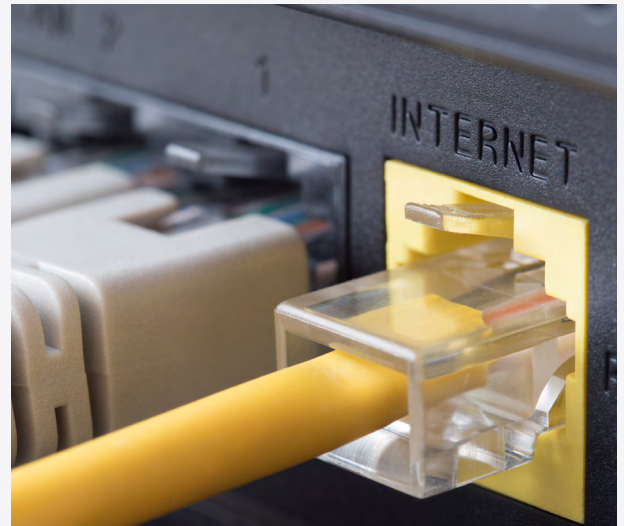
## LAN internet connection

*Remote programming and service*

The **LAN internet connection (option)** of the Apollo III allows the installer to offer remote technical service for program changes, technical analysis...

The end-user has **full access** to all functions to program or manually control the bells.

The Apollo III can **connect to the Internet** by means of any router, wired internet or by wireless modems.



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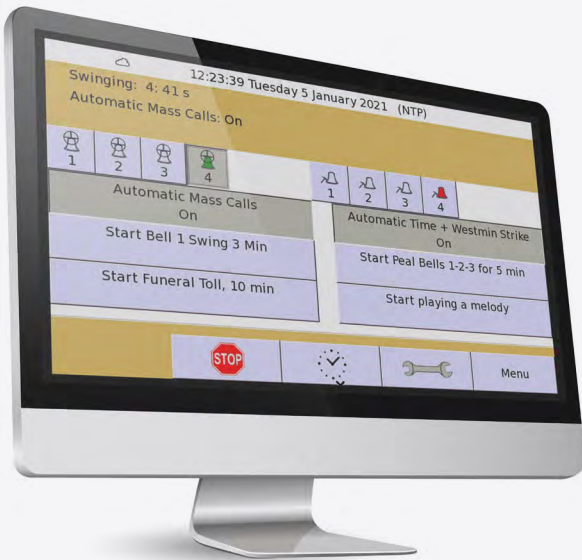
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## Compatible with PC, tablets and smartphones

iOS, Windows, Android

Remote control and remote service using internet or local network communication



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## Time sync with NTP server, DCF or GPS receiver

### *Synchronized internal time base*

The **internal time base** of the Apollo III may be synchronized with the most common standard time bases:

- DCF radio receiver (coverage: Western Europe)
- GPS satellite receiver (coverage: worldwide)
- NTP Network Time Protocol server (Internet connection required)

All tower clocks and slave clocks are synchronized by the Apollo III.

Worldwide automatic DST changeover



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## Bus system for tower equipment

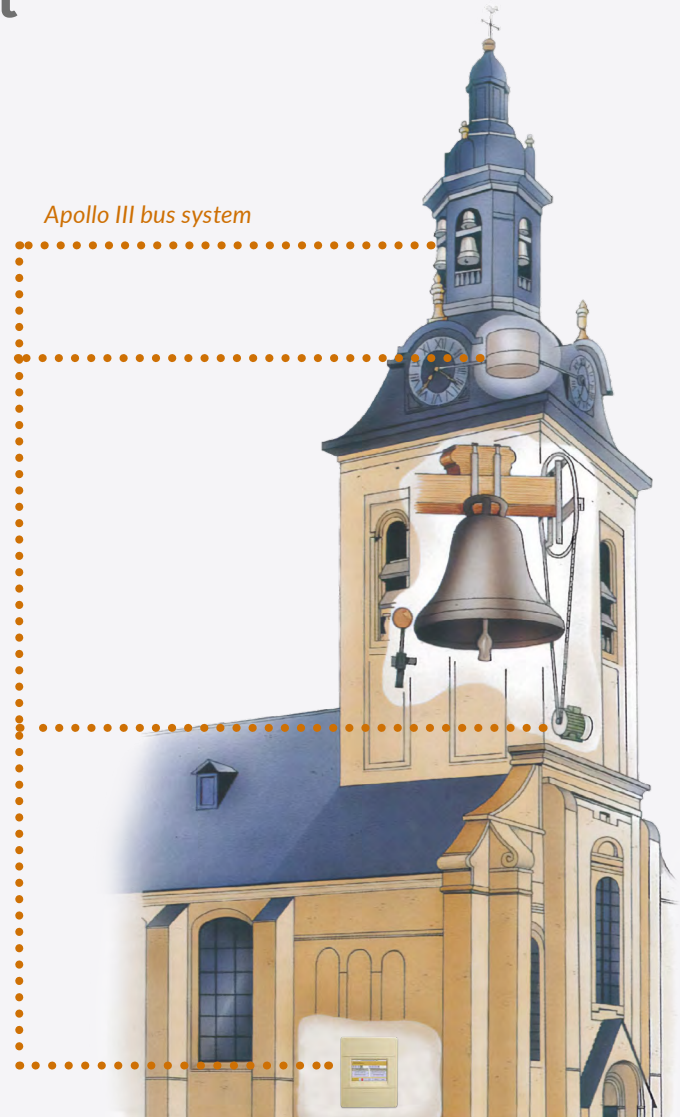
*UTP cable, fiberoptic, radio waves*

Communication between the Apollo III and other devices in the church:

- classical wiring, compatibility with any existing devices.
- Apollo III bus by UTP wire (ethernet type). Wiring is discrete (preservation of historical buildings) and low cost.
- Apollo III bus by Fiber Optic: immune to lightning surges.
- Apollo III bus by Radio Waves: e.g. in between separate buildings, when hardwiring is not possible/allowed.

Apollo III bus: serial communication by UTP wire allows remote programming and diagnosis of all connected devices.

The Apollo III includes a messaging system by email in case of malfunction, for instant technical supervision of the bell installation, which ensures optimal security.



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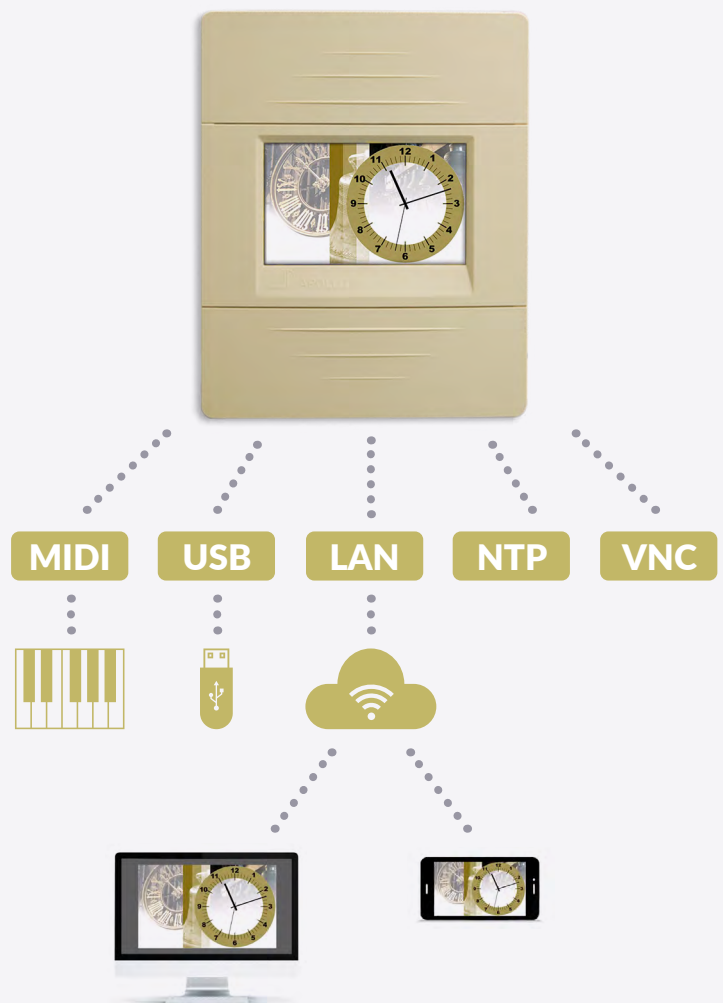


## Compatible with international standards

MIDI, USB, LAN, NTP, VNC, (S)FTP

The Apollo III system allows interconnection and integration by its compatibility with international standards.

- **MIDI (option):** Musical Instrument Digital Interface, for connecting keyboards, PC's, etc.
- **USB ports:** backup memory
- **LAN:** networking (internet)
- **NTP (option):** Network Time Protocol, for time sync by internet servers.
- **VNC (option):** Virtual Network Computing. The Apollo III's touch screen can be transmitted to other devices (PC's, tablets, smartphones) for remote operation and programming.
- **(S)FTP:** (Secured) File Transfer Protocol (Filezilla), industry standard for transport of files over a network (for backup, melody library...)



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## Church bell control

*Respect for local traditions*

User-friendly programming, traditional bell-ringing programs are identified by their proper names. Introduction of customized ringing and tolling actions in the user screen for optimal user-friendliness. Any traditional ringing sequence can be entered as a sequence in the Apollo III, to preserve local traditions.

The start-up and stop sequence of a bell swing peal is automatically calculated by the Apollo III, following a set of parameters filled in by the installer. The first/last clapper stroke of each bell come up in a controlled and aesthetical sequence similar to hand bell ringing.



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## Tower clock control

### Auto DST switchover

The Apollo III is capable to control up to 4 tower clock movements independently.

All worldwide standards of tower clock control are supported.

DST switchover is fully automatic.

Automatic synchronization of each clock after power failure.



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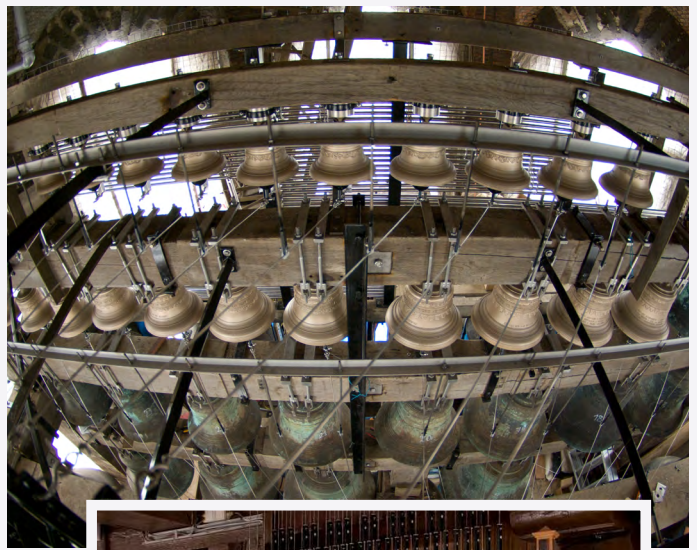


## Carillon and chimes control

### *Manage music remotely*

Music is stored in the Apollo III as MIDI files. These files are stored in a PC compatible file structure (Windows and IOS). File exchange is possible by LAN (SFTP, Filezilla) or by standard USB storage media. Thus, the carillonneur can remotely manage the automatic music played on his carillon.

A MIDI file may be recorded from a MIDI keyboard (e.g. baton carillon practice keyboard) or generated by means of a MIDI software package in a computer.



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## Sound files

Userfriendly programmable messaging



### Typical applications:

- Background music in a building
- Pre-recorded programmed voice messages for schools, public spaces or industries
- Energy control: heating and cooling
- Safety control: programmable messaging & access control
- Master clock and programmable relay outputs

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## Electrical and mechanical specifications

### Electrical and mechanical specifications

- Power supply: 100 – 240 VAC
- Power consumption: max. 25 W
- Network connection: RJ45, IEEE 802.3i / 802.3u compatible, 10/100 Mbit/s autonegotiation
- Network Protocols supported: Avahi, Network Time Protocol (NTP), SFTP (ports 22 and 2222), http (port 80), VNC (port 5900)
- Battery: maintenance-free rechargeable battery, autonomy 10 months
- Housing:
  - Wall mount: ABS/PC UL94-V0 (self-extinguishing), 250x310x83 mm
  - Rack mount: standard 19" – 3 rack units

### CE Standard

The device complies with the following standards:

Security standard:

- EN 609505

Electromagnetic compatibility:

- EN 50081-2: Generic Emission Standard  
EN 55022
- EN 50082-2: Generic Immunity Standard
- EN 61000-4-2: Electrostatic Discharge (ESD)
- EN 61000-4-3: Radiated Electromagnetic Field
- EN 61000-4-4: Electrical Fast Transient/Burst
- EN 61000-4-5: Surge Immunity

### Hardware

- 4x USB, 1x LAN, 1x SD card slot, 1x audio out
- Min. 10, max. 125 outputs and 100 inputs (by modular extension, bus system)

### Software

20 swinging bells, 104 strikers, 10 continuous outputs, 100 sequences, 100 playlists (2 players), 66 user function keys

### Programs

4x300 permanent / 4x24 one-time programs for:

- swinging bell
- melodies
- continuous outputs (lights, automatic doors...)
- sequences (combined executions)

### Number of melodies

- MIDI: 100.000 internal memory, 10.000.000 SD card
- MP3: 300 minutes internal memory, 30.000 minutes SD card



Tolling



Hour strike



Swinging bells



Angelus



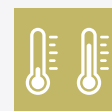
Funeral tolls



Tower clock control



Lighting control



Climat control



CAMPA, products of outstanding quality, available in your area



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