Tempo MAV™ PRO

OPERATING MANUAL



Thank You

We at CoachComm® want to thank you for purchasing a Tempo MAV™ Pro system. We are committed to providing you with a high-quality product that will deliver dynamic sound, distributed coverage, reliable mobility, and innovative operational features. In order to get the most out of your new system, please take a few moments to read this manual completely so that you better understand the operation of this product. For questions not addressed in this manual, feel free to contact CoachComm's Customer Support Department.

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Safety Information

The following section outlines critical safety information related to the ownership and operation of the Tempo MAV Pro system. Safe operation is essential. Improper or careless use can create hazards for you and anyone nearby. Always follow these precautions when moving or operating the Tempo MAV Pro system.

Warning: *Ignoring these warnings may cause severe injury or death.*

Caution: *Ignoring these cautions may cause moderate injury or property damage.*

Protecting Yourself and Those Around You

- Allow only responsible individuals who are familiar with these safety rules and operating instructions to use the Tempo MAV Pro system. Never permit untrained or unfamiliar individuals to set up or operate the system.
- Do not stand, sit, climb, or ride on any part of the Tempo MAV Pro system.

Transportation Safety

- Do NOT tow the Tempo MAV Pro system. The device is not designed to be towed by a vehicle or any mechanical means.
- Move the Tempo MAV Pro system slowly and cautiously, especially when navigating hills, slopes, or steep grades.
- Use extreme caution on wet, icy, or slippery surfaces. Reduced traction may cause the unit to slide, tip, or become difficult to control.
- When the Tempo MAV Pro system is positioned on any incline or decline—no matter how small—always lock the wheels to prevent unwanted movement.
- Keep the path clear of obstacles and ensure adequate lighting when moving the unit.

Electrical Safety

- Do not submerge any part of the Tempo MAV Pro system in water.
- Protect the power cords from foot traffic. Do not allow cords to be crimped or pinched, particularly at plugs, electrical outlets, and the point they exit from the apparatus. Routinely inspect power cords for any signs of fray or extensive wear. Immediately replace any damaged cords.
- Keep all ventilation openings clean and unobstructed. Failure to do so could cause the system to overheat, which could cause personal injury or property damage.
- Do not place the system near heat sources such as radiators, heat registers, stoves, or heat-producing equipment (including amplifiers).
- Do not defeat the grounding-type plug. If the plug does not fit the available outlet, consult a qualified electrician—never remove or alter the grounding prong.
- Unplug Tempo MAV Pro during lightning storms or when unused for extended periods to prevent power surges that could damage electrical components or cause fire.
- Refer all servicing to qualified service personnel. Do not attempt to modify, disassemble, or open any Tempo MAV Pro components. Exposing the electrical system may result in equipment damage and serious personal injury, including electric shock. Equipment damage caused by unqualified personnel may void the product warranty associated with your Tempo MAV Pro.
- Use only one 120V 15-amp (minimum) dedicated circuit for the Tempo MAV Pro system. Test circuits regularly to confirm proper operation.

Mechanical Safety

- Never, under any conditions, remove, bend, cut, fit, weld, or otherwise alter standard parts of Tempo MAV Pro. Modifications to your system could cause personal injuries and property damage and will void your warranty.
- Use only attachments/accessories that are specifically made for or certified by CoachComm. Any attempt to modify ports in order to use cables or wires that are not manufactured specifically for or certified for use on this system will void the product warranty.
- Do not use blocks to increase the height of system.



Figure 1: This warning label is attached to each Tempo MAV Pro and alerts users of specific pinch hazards.

Noise Level Safety

- Exposure to extremely high noise levels may cause permanent hearing loss. Individuals vary considerably in susceptibility to noise-induced hearing loss, but nearly everyone will lose some hearing if exposed to sufficiently intense noise for a sufficient time. To ensure against potentially dangerous exposure to high sound pressure levels, it is recommended that all persons exposed to equipment capable of producing high sound pressure levels, such as this amplification system, wear hearing protectors while this system is in operation.

What's included with the Tempo System?

The Tempo MAV Pro "Mobile-Audio-Video" Systems are designed for use in both athletic and school environments. All systems come with: an outdoor, weather-resistant, sunlight-readable display mounted to a motorized lift; a powerful, professional sound system; and practice management software. Each Tempo MAV Pro also includes a custom vinyl wrap that can include school colors and logos and sponsor detail.

Optional components provided by CoachComm include:

- Wireless Handheld Microphone
- Optional CoachComm X-System Add-On (See "Appendix A: CoachComm X-System Add-On" on page 31.)

Each hardware component of the Tempo MAV Pro system is outlined in the following product overviews, and their operation is detailed in full in later sections of this manual.

Block Diagrams

Tempo MAV Pro

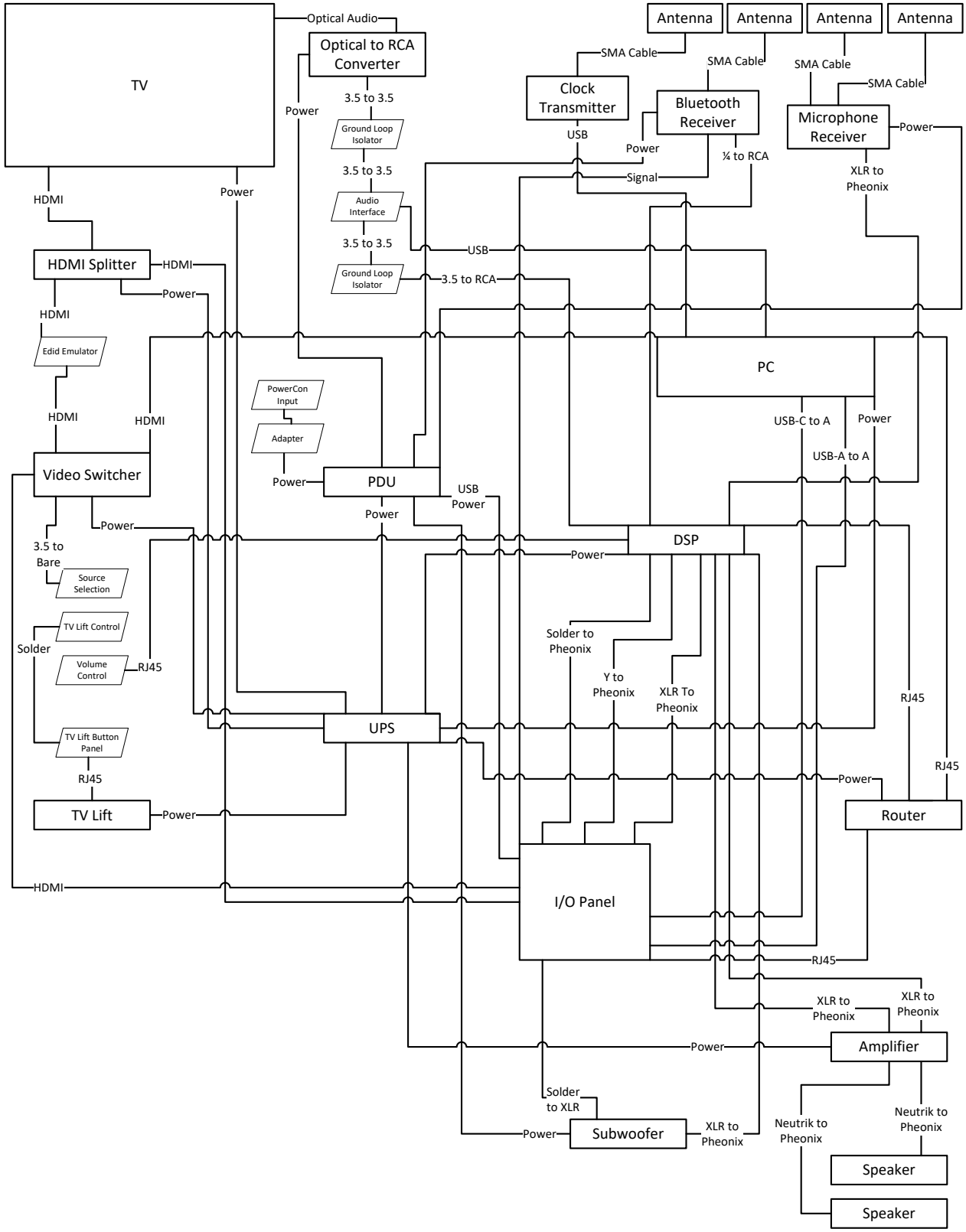


Figure 2: Tempo MAV Pro Block Diagram

Tempo Mav Pro Components

System Overview



Figure 3: System Overview

A. TV: 55” 4K UHD Smart Display.

B. Speakers: 12” Pro Audio Speakers.

C. TV Lift: Motorized lift with water resistant cover.

D. TV Door: TV viewing access when lift is down.

E. Wheel Locks: Foot activated friction brake.

Side View



Figure 4: Side View

A. Speaker Door: Access to speakers on both sides.

B. Control Panel: Control for volume, TV lift, and source selection. See “Control Panel” on page 7 for a zoomed image.

C. Handles: Retractable handles for maneuverability.

D. I/O Panel: All connections in and out of Tempo MAV Pro. See “I/O Panel” on page 8 for a zoomed image.

E. Tie Downs: D-ring tie-downs on all four corners for transport.

CAUTION: Tie downs are not for towing. See “Transportation Safety” on page 1.

F. Power Connection: Main power connection for Tempo MAV Pro. Requires standard 120V / 15A circuit.

Control Panel



Figure 5: Control Panel

A. Volume: Controls all volume coming out of the Tempo MAV Pro speakers.

B. Source Selection: Swaps the source between the Tempo MAV Pro PC and the external source connected via the I/O Panel.

C. TV Lift: Controls movement of the motorized TV lift.

I/O Panel

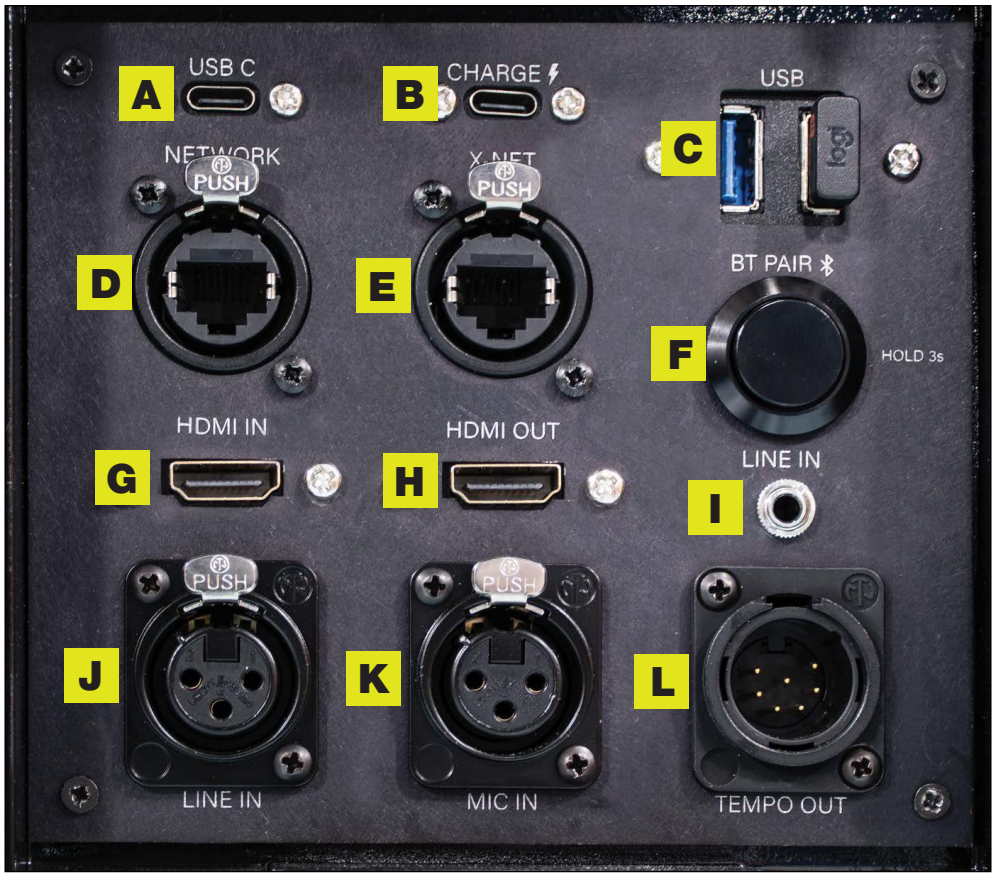


Figure 6: I/O Panel

A. **USB-C:** Direct connection to the internal computer for transferring Practice Schedules to the Tempo Software.

B. **USB-C (Charge Only):** Provides fast charging for cell phones and tablets.

C. **USB-A ×2:** Direct connection to the internal computer for transferring Practice Schedules to the Tempo Software. (Mouse/Keyboard uses one connection.)

D. **Network:** Provides a direct connection to the router for network access. (only used by CoachComm Support)

E. **X-Net:** Network connection for X-System products.

F. **Bluetooth Pair:** Enables audio playback through Bluetooth-compatible devices.

G. **HDMI IN:** Input for HDMI-compatible devices such as tablets, phones, and video game consoles.

H. **HDMI OUT:** Outputs video displayed on the TV to an external display.

I. **Line In 3.5 mm:** Line-level audio input via 3.5 mm (headphone) jack for laptops, tablets, and similar devices.

J. **Line In XLR:** Line-level audio input via XLR for mixers, CoachComm, and other professional audio sources.

K. **Mic In XLR:** Mic-level input for a dynamic wired microphone.

L. **Tempo Out:** XLR output for Tempo audio systems, including Tempo Speaker Trunk, Tempo Go, and eVenue Tempo. (may require proprietary cable from CoachComm)

Rear View

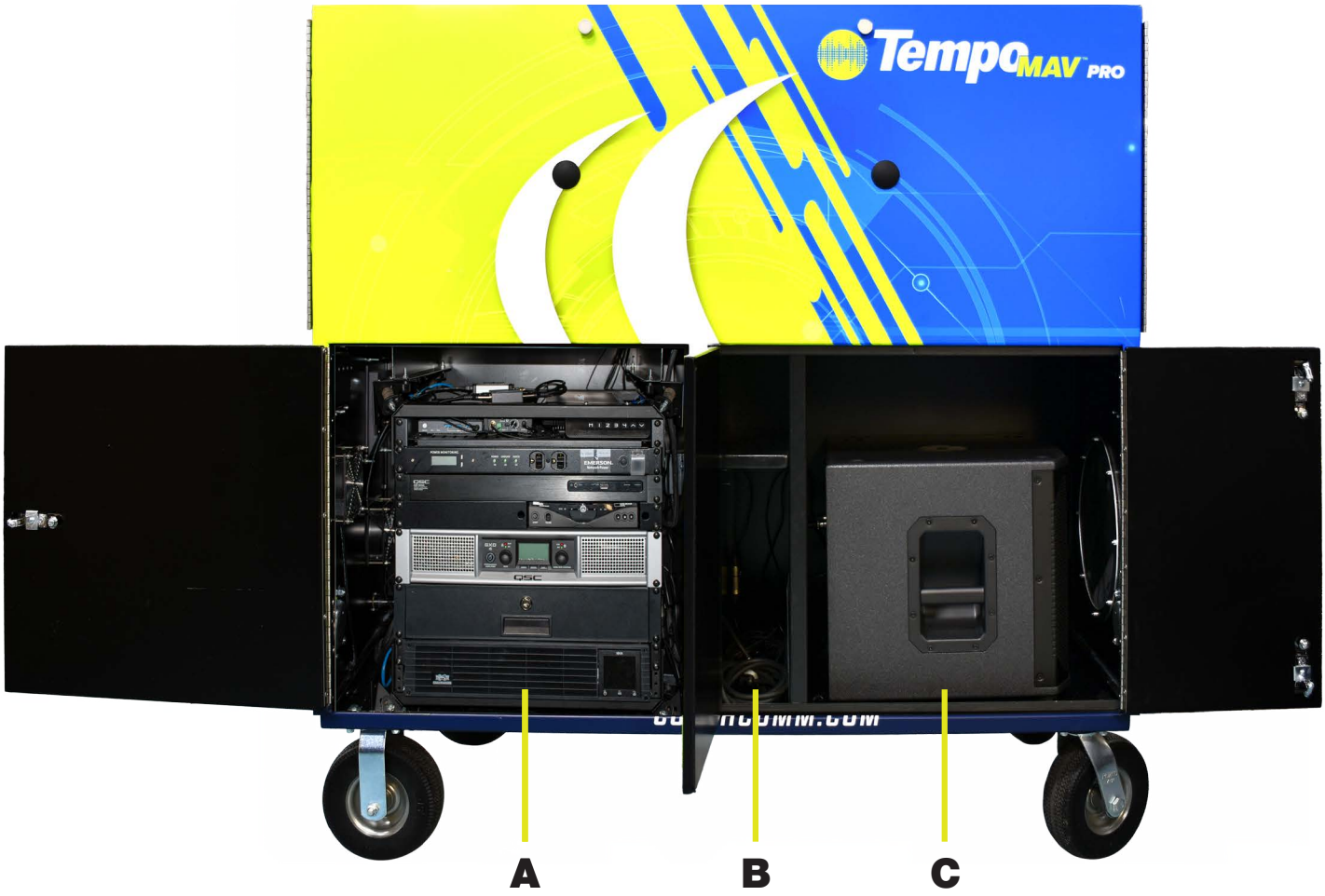


Figure 7: Rear View

A. Rack: See “Rack Components” on page 10 for more information.

B. Storage: Space to store accessories (22” x 5.25” x 18”).

C. Subwoofer: 12” Powered Subwoofer.

CAUTION: The subwoofer space is not designed for storage. Storing items here should be avoided.

Rack Components

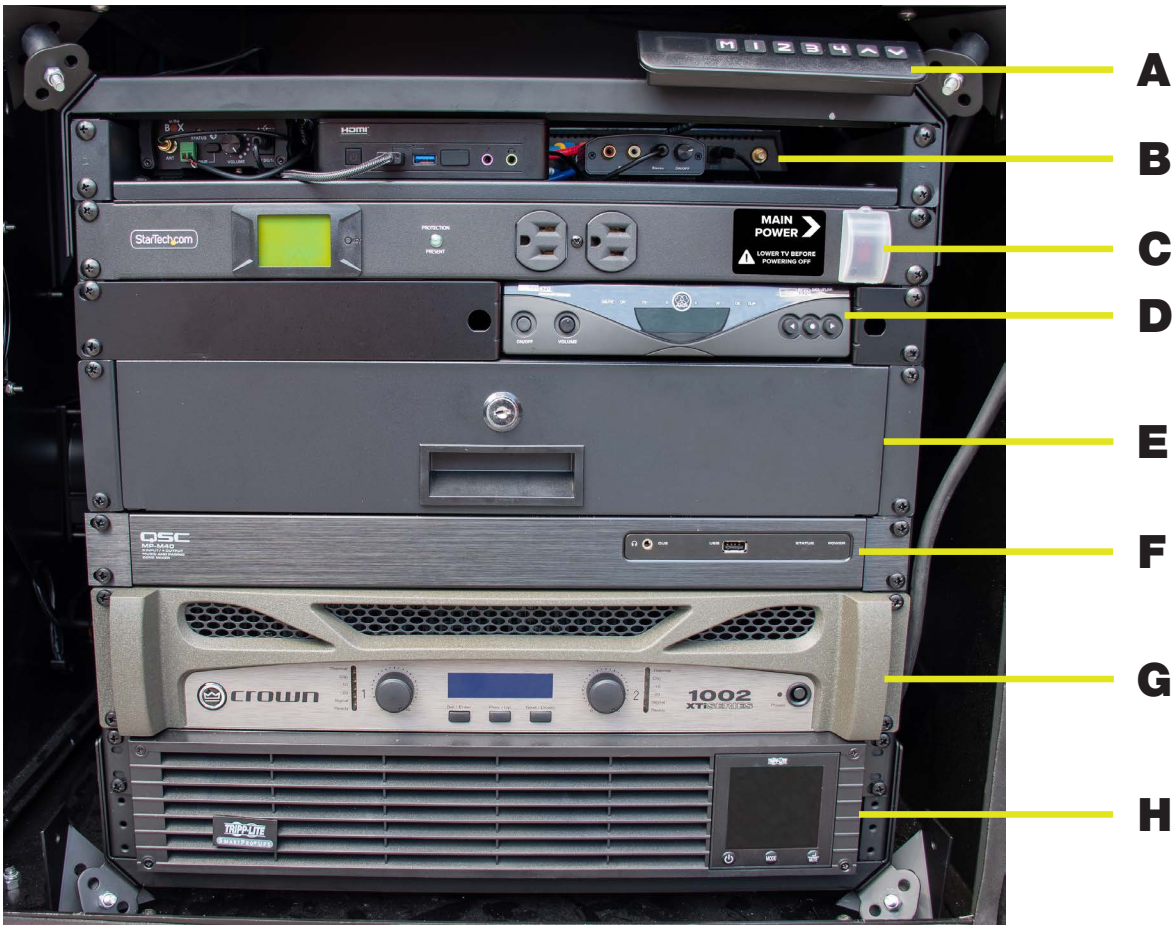


Figure 8: Rack Components

A. TV Lift Controls: Second set of controls for movement of the motorized TV lift.

B. A/V and PC Components: Mini PC, Router, Bluetooth receiver, Video Management Components.

C. Main Power: 12 Outlet Power Distribution Unit.

D. Wireless Microphone Receiver: Connects the wireless microphone to Tempo MAV Pro audio. Body pack with headset microphone supplied with an optional add-on wireless handheld microphone..

E. Storage Drawer: Internal dimentions W 16.1" x D 11.4" x H 2.91. Not available with CoachComm X-System add-on. See "Appendix A: CoachComm X-System Add-On" on page 31.

F. Digital Signal Processor: Mixes audio inputs and outputs.

G. High Power Pro Audio Amplifier

H. UPS: Provides up to 10 minutes of backup power when disconnected from external power source.

Note: *Tempo MAV Pro may vary in installed components and their order in the rack.*

Setup and Teardown Procedures

Power On & Setup



Figure 9: PowerCON

1. Plug one end of the power cable into a standard 15A grounded wall socket and the other end into the powerCON input (Figure 9) on the side of the cart: insert then twist to the right to lock the power cable in place.
2. To power on, go to the rack area in the back of the cart, and flip on the switch (under plastic cover) on the rack device labeled MAIN POWER.
3. Lift the TV Lift cover on the Control Panel and short press UP on the rocker switch once to awaken the TV lift from standby mode. Press and hold UP again to raise the TV to the desired height.
4. To adjust volume, lift the Volume cover on the Control Panel and use the volume UP/DOWN arrow buttons to increase/decrease the volume.

Speakers

Speaker Slides

The pro audio speakers in Tempo MAV Pro are on sliders, which allow the speakers to lock within the cart or be pulled out for a wider stereo image with more control.

To pull out speakers:

1. Open the speaker doors.
2. Pull the two latches on the speaker shelf up.
3. Slide the speaker shelf outwards until they lock in place.
4. To slide back into the cart, do the same thing in reverse: Pull the latches up, slide speakers in until the shelf locks.

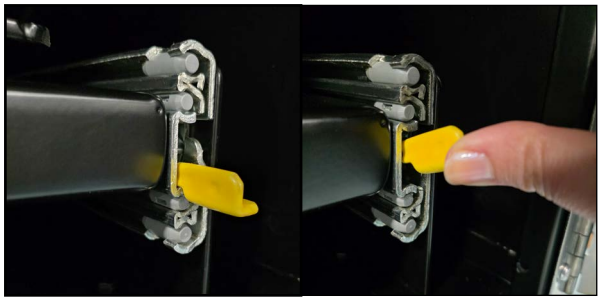


Figure 10: Speaker Slide Latch Down / Up

Speaker positioning

When the speaker shelves are pulled out, you can use the spring plunger to turn the speakers to a 45- and 90-degree angle.

To angle speakers:

1. Pull the spring plunger upward and twist to unlock it in the upward position.
2. Turn the speaker to the 45- or 90-degree angle.
3. Twist the spring plunger again until it falls back into the locking position groove.

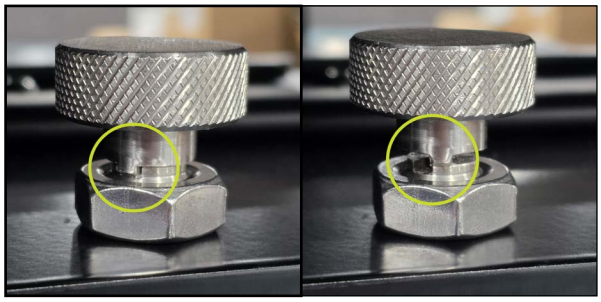


Figure 11: Speaker Angle Spring Plunger Locked / Unlocked

You can also put the speakers into a 180-degree position by loosening the speaker knob on the side of the speaker counter-clockwise and flipping the speaker to face the rear of the cart. Lock back into place by turning clockwise.



Figure 12: Speaker Knob

Power Off

1. Ensure that Tempo Software has been closed. The computer will shut down automatically.
2. Short press DOWN on the TV lift rocker, then press and hold DOWN to lower the TV back into the cart.
3. Ensure the computer is fully powered off, then flip the MAIN POWER switch in the rack (See “Rack Components” on page 10) to turn off the main system power.
4. The UPS will power off automatically in 5 minutes or you can manually shut it down: press and hold the power button on the UPS (See “Rack Components” on page 10) for three seconds then release to power off the remaining system components.
5. Remove and store the power cable and other accessores in the cart.



Figure 13: Power Button

Operation

Microphone

The system comes with both a wireless body pack with headset and wired handheld microphone (optional add-on: wireless handheld microphone).

Note: *When speaking into the microphone, the overall volume of the music will automatically lower.*



Figure 14: Wired Microphone (left)
& Optional Wireless Microphone (right)

Use the Wired Microphone

1. Using the supplied 30 foot 3-Pin XLR mic cable, plug the wired microphone into the MIC IN XLR input on the I/O Panel.
2. Push the switch up to turn on.

Frequency Scanning the Wireless Microphone and Body Pack

Depending on location and wireless devices in the surrounding areas of the cart, the wireless microphone and body pack will require some configuration. Use the instructions below to ensure the wireless microhphone and body pack are connected to the receiver.

Note: *Both the wireless microphone and body pack use the same Receiver in the rack. One must be off for the other to work.*



Figure 15: Wireless Body Pack & Headset

1. In the rack, locate the Wireless Microphone Receiver.
2. Make sure the wireless body pack transmitter is OFF, the wireless microphone is OFF, and the Tempo MAV Pro power is on.
3. Power on the Receiver in the rack by pressing the On/Off button.
4. Unlock the Receiver by holding the center button for 3 Seconds. The “Lock” icon on the bottom right of the screen should disappear.
5. Press the left arrow once until the screen shows “AUTO”, then press the center button to confirm.
6. Use arrows to select group (or leave as is). Press the center button to confirm.



Figure 16: Receiver Buttons

7. Use arrows to select one available channel (or leave as is). Press the center button to confirm.
8. The screen will show “SAVE-Y”. Press the center button to confirm.
9. The screen will show “PRG IR” to program the body pack transmitter.
10. Move the slider on the body pack transmitter or the wireless microphone from OFF to MUTE (until the first click) and hold it almost touching the receiver. Ensure the IR icon on the top of the body pack transmitter (front of wireeless microphone) is almost touching the IR icon on the receiver.
11. Press the center button on the receiver to confirm programming. It should take approximately 10 seconds to transmit.
12. The screen will show “I)------” while programming. Once complete, it should show “IR OK”. Press the center button to confirm.

Note: *If there is an error in programming, the screen will show “IR ERROR”. Make sure the receiver is VERY close to the body pack or microphone and press the center button twice to retry.*

Use the Wireless Microphone

1. Slide the switch to ON (until the second click).

Note: *Microphone can be muted by sliding the switch to the "Mute" position (until the first click).*

Use the Wireless Body Pack

1. Connect the supplied headset microphone to the wireless body pack transmitter.
2. Slide the switch on top of the bodypack transmitter to ON (until the second click).

Note: *Microphone can be muted by sliding the switch to the "Mute" position (until the first click).*

Audio/Video Controls

Switch to an External HDMI Video Input

1. Using the 13ft HDMI cable provided, plug in the external source into the HDMI In port on the I/O Panel.
2. On the Control Panel, lift the Source Selection cover and press the button once to switch to the external input.

Use Bluetooth

1. Pair your Bluetooth device by holding the BT PAIR button on the I/O Panel for 3 seconds. You must repair a device each time it is used.
2. Scan from your device and connect to JIB/BT8R.
3. To disconnect, unpair on your device or hold BT PAIR again for 3 seconds.

Note: *Verify the volume of the Bluetooth device is turned all the way up before turning Tempo MAV Pro volume higher. This will keep sound consistent, minimizing risk of a different source (Mic, Tempo Mav Software, etc.) being extremely loud compared to the Bluetooth device.*

Volume

All volume for all sources is always "Hot" and at a preset volume. To adjust system volume, lift the Volume cover on the Control Panel and use the volume UP/DOWN arrow buttons to increase/decrease the volume.

If using Bluetooth source, verify the volume of Bluetooth device is turned all the way up before turning Tempo MAV Pro volume higher. This will keep sound consistent, minimizing risk of a different source (Mic, Tempo Mav Software, etc.) being extremely loud compared to your Bluetooth device.

Clock Controller

There is an included wireless clock controller for Victory/CoachComm clocks. The clock controller should natively connect to these clocks without configuration as long as nothing else is connected to them.

Connections

Power Outlets

There are two power outlets on the Main Power rack Power Distribution Unit (PDU). Please make sure any device plugged in does not exceed 120v/5 amps of power usage.

Remote Controls

Tempo MAV Remote

You can control the Tempo MAV Pro system using the supplied wired Tempo MAV Remote, which plugs into any available USB-A port on the I/O Panel.



Figure 17: Tempo MAV Remote

1. -1:00, +1:00: Subtracts or adds a minute to a period
   Shift + 25: Starts 25 second clock
   Shift + 40: Starts 40 second clock
2. Volume: Decreases or increases volume
   Shift + 1–7: Plays sound assigned to the selected one-touch number
3. Power Off: Remote power off function not available on Tempo MAV Pro
4. Skip Song: Stops playing selected song and forwards to next song
5. Restart Period: Restarts current period
6. Previous Period: Returns to beginning of previous period
7. Next Period: Starts next period
8. Shift: Changes remote functions when held down and used in combination with another button
9. Pause Practice: Toggles between pause and start/continue practice

Software/Browser Remote

See “Control Via Browser-Based Remote” on page 27.

Tempo MAV Software Overview & Installation

Home Page Overview

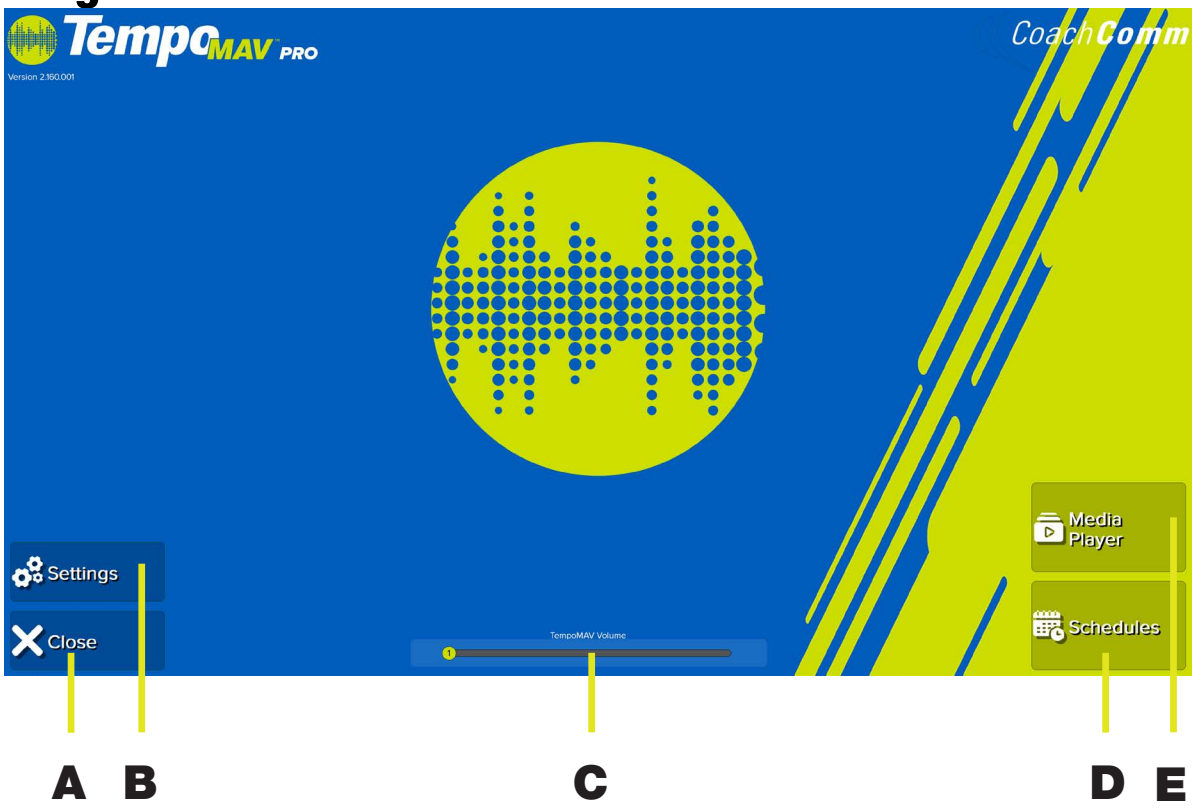


Figure 18: Tempo Software Overview

A. Close: Closes Tempo MAV Software and powers down the computer.

B. Settings: View settings for schedules; manage files; view system and software .information; and view remote control.

C. Computer Volume: Changes overall volume.

D. Schedules: Create, edit, import/export, and play schedules.

E. Media Player: Play audio outside of a schedule or practice.

Software Installation

Tempo MAV Software is already provided on the Tempo MAV Pro system's PC. To install Tempo MAV Software on a secondary PC, contact CoachComm for assistance.

Minimum Software Requirements

The minimum software requirements for running Tempo MAV Software on a secondary PC are listed below:

- Processor – 1GHz
- RAM – 5GB minimum; 8GB recommended
- Disk Space – 128GB minimum
- Windows 10

Tempo MAV Software Operation

Organize Your Audio Library

Organize your audio files (.wav, .mp3, aac, m4a, and wma) within your computer's directory so they can be easily imported into a Tempo MAV schedule. Do this by placing the files into your Tempo library. To access your Tempo audio library,go to the Settings in the Tempo MAV Software or follow these steps to view the library on your computer:

1. Open File Explorer.
2. Go to This PC and open the (C:\) folder.
3. Open the TempoMAVlibrary folder. The location of the Tempo folder will be the same on the Tempo MAV Pro PC and the secondary PC, if installed.
4. CoachComm recommends creating organized folders in your library to hold your music and sounds (e.g., crowd noise, game sounds, announcer's or coach's voice, etc.) to play in Tempo MAV Software.

Important: *To show new files, open the Settings and click* ***Restart Tempo MAV Pro*** *in the bottom left corner above* ***Close***.

Build a Schedule

1. Open the Tempo Software by double-clicking the Tempo MAV shortcut on your computer's desktop.
2. To build a schedule from scratch, open Tempo MAV Software and click on Schedules.



Figure 19: Schedules Button

3. Choose New Blank Sched on the bottom.



Figure 20: New Blank Sched Button

Note: *You may also start from the Default Schedule with New from Default. A schedule must be made the Default or the Default will be an empty schedule.*

General Tab

4. The new, blank schedule will open to the General tab.
5. Enter your general schedule settings on the General tab.

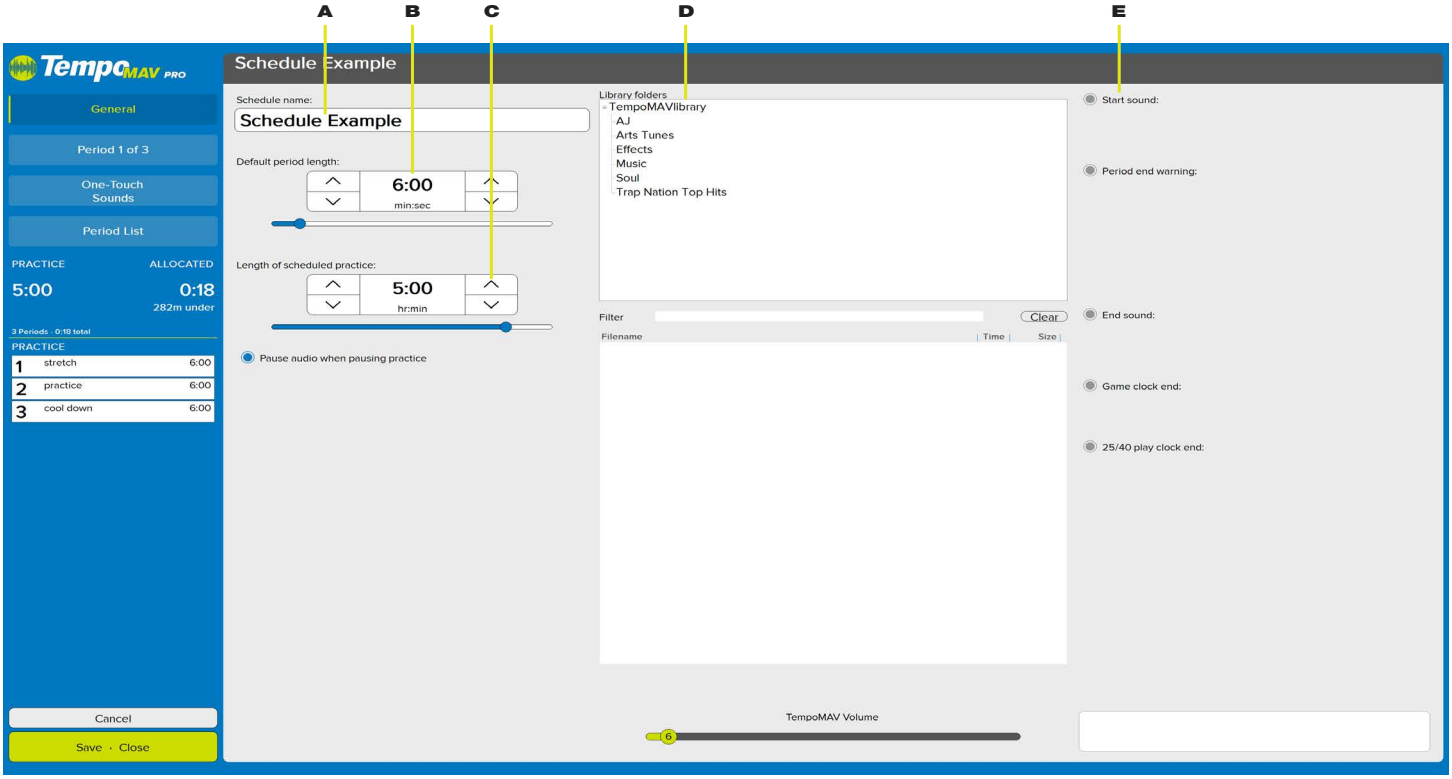


Figure 21: Tempo MAV Software General Tab

A. Name your schedule.

B. Determine the default period length. (This is your most used period length. You can customize length by period in the Periods tab)

C. Determine your total scheduled length of practice. Select the button below (turns blue) to pause audio when pausing practice.

Note: *If you make your total practice time longer than your allowed or allotted practice time, the timing mechanism will flash red on the bottom center of the screen. This control functions to monitor practice-time regulations.*

D. Select the folder where you will pull audio files to view the contents. Once selected, the files will show in the Contents list below.

E. Select each sound effect button to turn it on (turns blue). Drag and drop an audio file into the space below each option to add a sound effect.

- Start Sound – Effect for the start of the period
- End Warning – Effect to warn end of the period
- End Sound – Effect for the end of the period

Note: *Including both a Start Sound and End Sound will play a sound both at the end of the period and at the beginning of the next (as if the sound repeats back-to-back). Most users choose to have one or the other, not both.*

- 25/40 Clock End – Effect for the end of the 25/40 Clock countdown
- Game Clock End – Effect for the end of the Game Clock countdown

Period List Tab

6. Add and remove periods as needed. The column on the left will show the leftover time alloted in the practice as determined in the General tab. To update this number, move to another tab and back if needed.

7. Drag and drop periods to change the order.

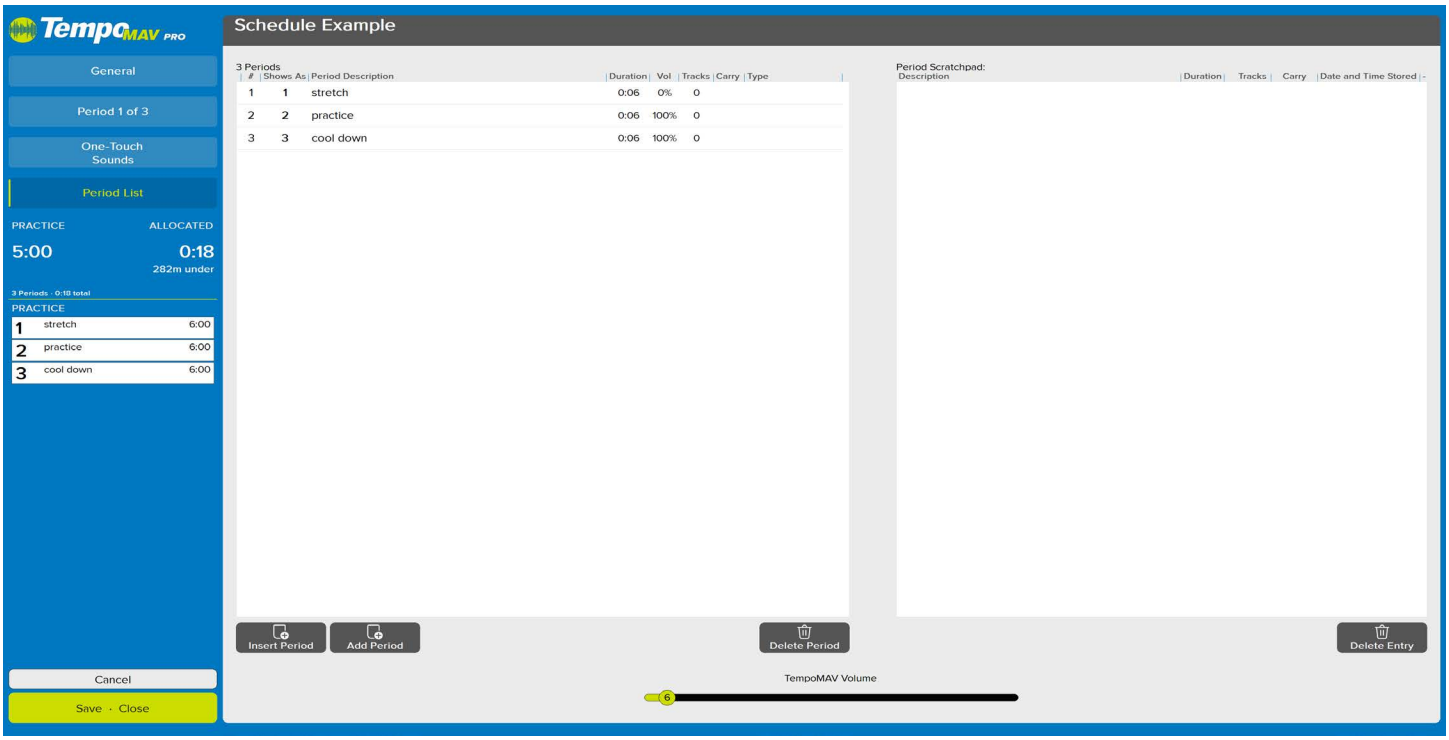


Figure 22: Tempo MAV Software Period List Tab

Periods Tab

8. Period (Left Column)– The first column of the tab displays the information of the period you're editing. Use the Previous/ Next and First/Last buttons to navigate to each period. You can also add and remove periods at the top.

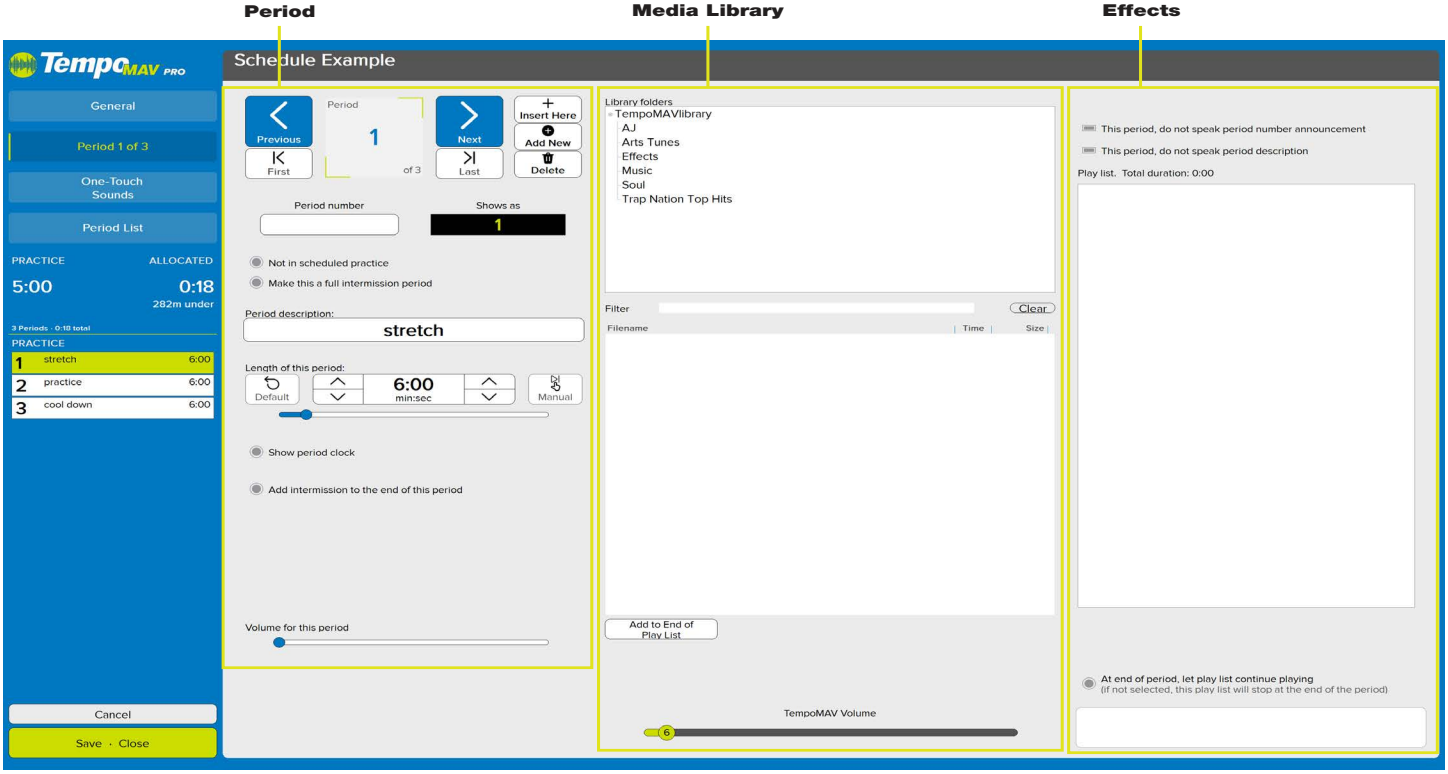


Figure 23: Tempo MAV Software Period List Tab

A. Practice Period Number – Determine what (if any) period number will display on your period clock (if applicable). If you leave the Practice Period Number field empty, the clock will always display the default period number. The Period Number Will Show As field displays what will be seen in the software and on the clocks as you run the script.

- Type two hyphens (--) in this field to remove the period number from the period clock. The period time will still be displayed on the clocks.
- A zero can be placed in this field to display a zero on the period number.

B. Insert Here – Adds new period before the current selected period.

C. Add New – Adds new period at the end of the schedule.

D. Delete – Deletes current selected period.

E. Not in Scheduled Practice – Select this option to remove the period from the total practice time. Typically used for beginning practice or stretching.

F. Full Intermission – Set the entire period as an Intermission. Intermission is time that will not count toward practice.

G. Period Description – Text written in this field will be said aloud at the beginning of the period if the Text to Speech Prompt is enabled.

H. Period Length- Change the period length, go back to default, or choose manual advance.

- Default Duration – Set for all periods in the General tab and is shown on the Periods tab. Click this button to return the duration to the default.
- Manual Advance – Select if you prefer your period to have no time associated with it. With this setting, a period will not advance to the next period unless you manually do so from the touch screen or Tempo MAV Remote.

I. Show Period Clock – Select this option to show the clock during the period.

J. Period Volume – Use the slider to adjust volume for this period.

9. Media Library (Center Column)

A. Library folders – Shows the hierarchy of folders within the Tempo MAV library. Select a folder to show the media files in the Contents folder below.

B. Filter – Functions as a search bar for the Contents folder below.

C. Contents folder – Holds all audio files in a specific folder of the library.

10. Effects (Right Column)

A. Effect options. button on (turns blue)

- Start Sound – Selecting the No Start Sound box turns off this feature.
- Period Number Announcement – Select this box if you do not want to have an announcement for the period number.
- Period Description – Select this box if you do not want to have an announcement for the period description.
- Play List – To add a file, drag and drop it to the list from the Contents in the middle column or select and click Add to End of Play List. The period's Used and Remaining time is displayed above the Play List. Used time is calculated by adding the total amount of time of your audio clips. It is best practice to add more than enough audio files to completely fill each period in case a user skips a song mid-series. Select an entry and click Delete Entry to remove it from the list.
- No Ending Sound – Select this box if you do not want to have an ending sound for the period.

B. At end of period, let play list continue playing – Determine whether or not the music stops at the end of the period.

C. Add Intermission – Set an optional period Intermission using the slider or Shorter and Longer buttons. Intermission is time that will not count toward practice that will occur after a period.

D. Show Intermission Clock – Select this box (turns blue) to show the intermission information from the period clock.

One-Touch Tab

11. Set specific one-touch buttons for the Tempo MAV Play screen using the One-Touch tab by dragging the selected audio file from the File List to the applicable field.

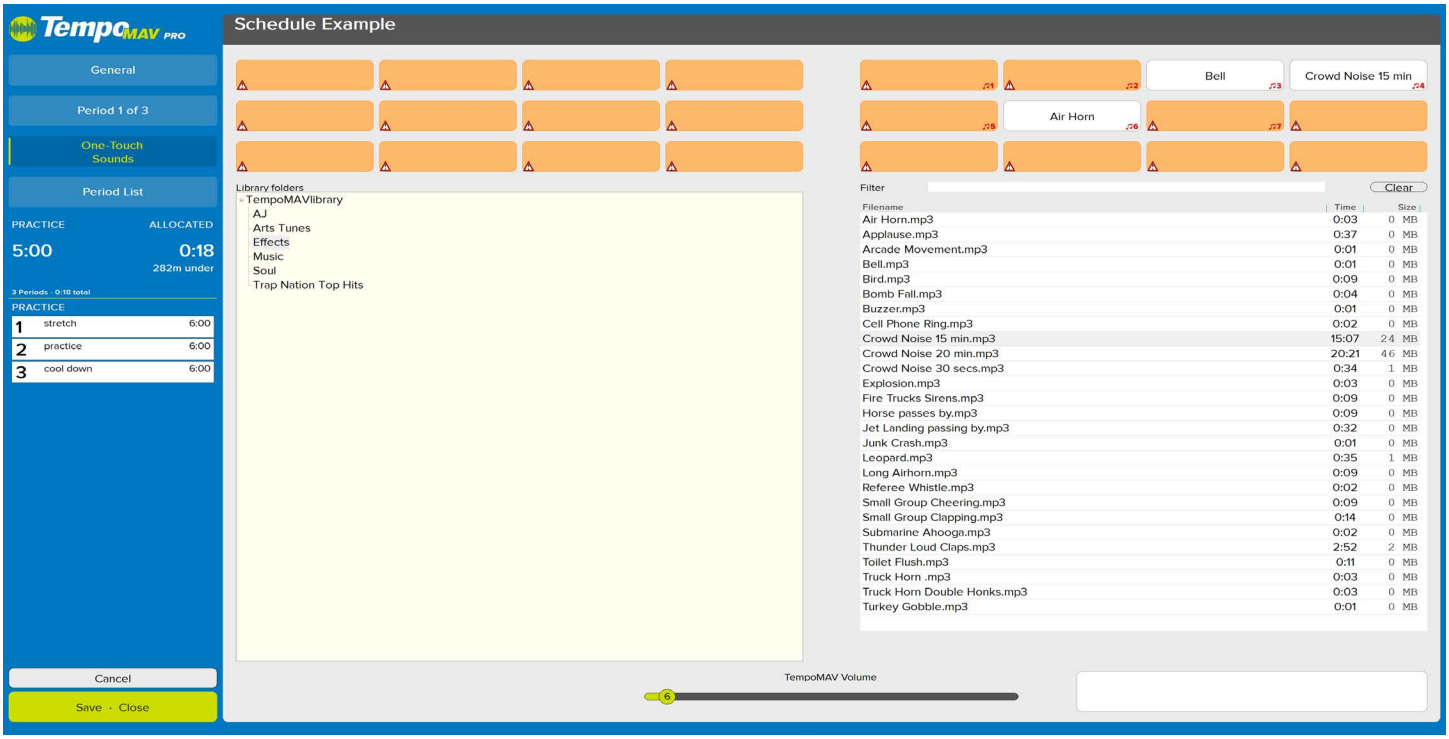


Figure 24: Tempo MAV Software One-Touch Tab

A. Buttons – Shows the assigned file on the Play screen. Button will be named using the file name. Replace a button assignment by dragging a new sound on top.

B. Library folders – Shows the hierarchy of folders within the Tempo MAV library. Select a folder to show the media files in the Contents folder below.

C. Filter – Functions as a search bar for the Contents folder below.

D. Contents folder – Holds all audio files in a specific folder of the library.

12. Click Save - Close when done creating your schedule.

Edit a Schedule

1. To edit a schedule, open Tempo MAV Software and click on Schedules.

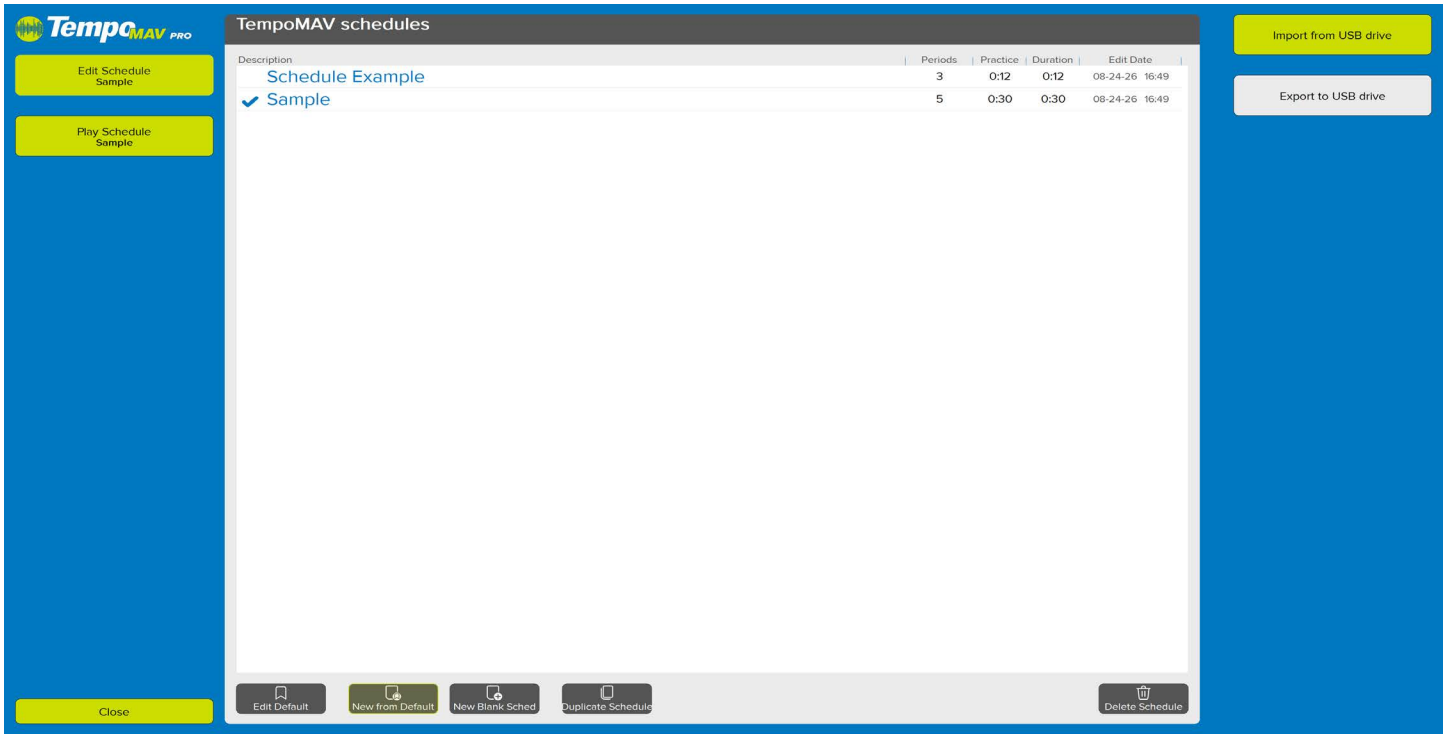


Figure 25: Tempo MAV Schedules

2. Select the specific schedule to edit from the list and click Edit Schedule.
3. Click Save - Close before closing.

Duplicate a Schedule

Duplicating a schedule makes a duplicate copy of the selected schedule. This is useful in situations where you would want nearly identical schedules for each practice day, but still need to change a few details. Duplicating prevents you from having to create each schedule from scratch.

1. To duplicate a schedule, open Tempo MAV Software and click on Schedules.
2. Select the schedule you wish to duplicate from the list.
3. Select Duplicate Script at the bottom. Your duplicate copy will open automatically.

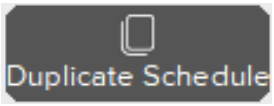


Figure 26: Duplicate Schedule Button

4. Change the title to whatever you want (e.g., Wednesday Practice), and make other desired changes. Click Save - Close before closing.

Delete a Schedule

1. To delete a schedule, open Tempo MAV Software and click on Schedules.
2. Select the schedule you wish to delete from the list.

3. Click Delete Schedule. Confirm your decision in the dialog box.

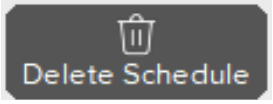


Figure 27: Delete Schedule Button

Sync a Schedule

Most schedules are built on a PC, and then transferred to the Tempo MAV Pro's PC using a dedicated drive. Syncing a schedule requires having a dedicated external hard drive or thumb drive available to prevent losing files during the sync transfer process.

1. After building a schedule and saving it, plug your external drive into your PC (usually via USB).
2. Click on Schedules.
3. Click on the Export to USB Drive button in the right column. Select the drive the files will be copied to. All schedules and library files will be exported..

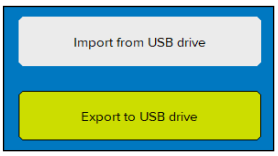


Figure 28: Import/Export Buttons

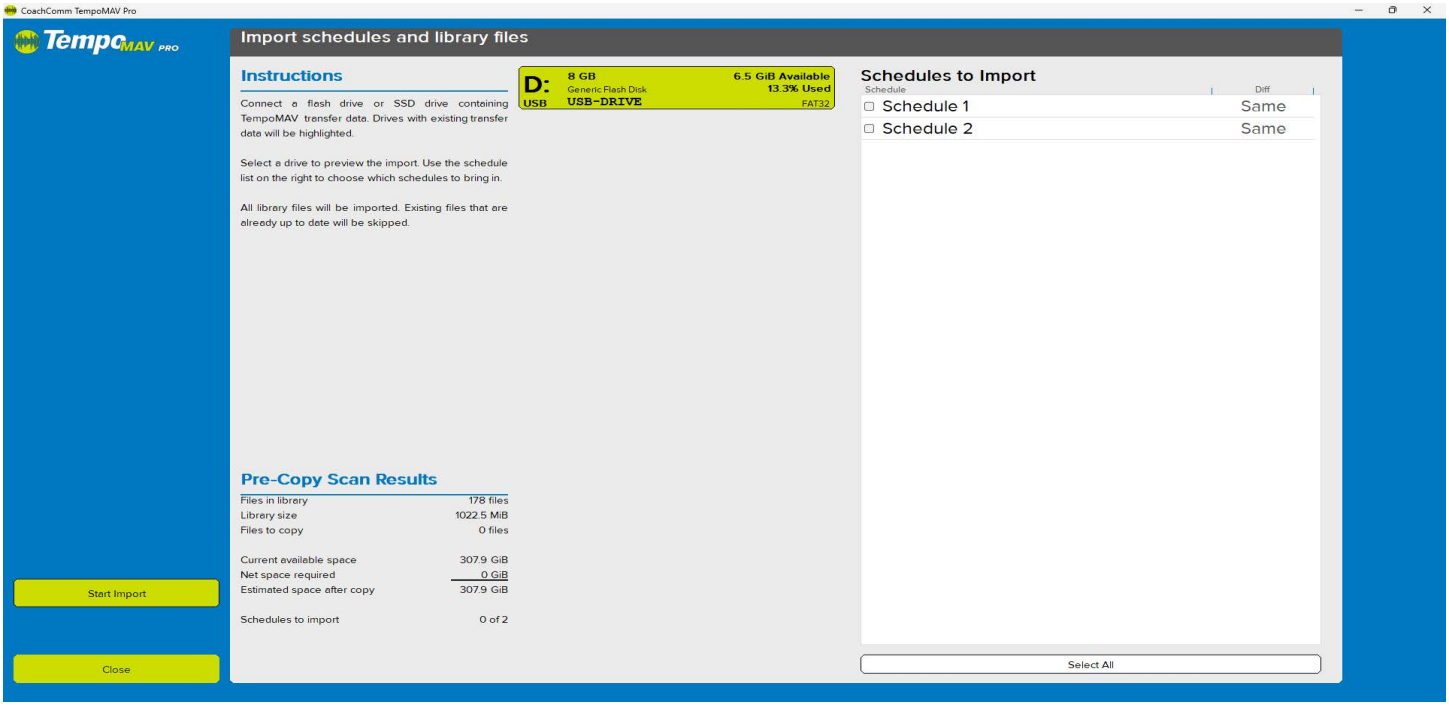


Figure 29: Import Screen

4. Click Start Export.
5. Connect the external drive to the Tempo MAV Pro on the I/O Plate.

6. Open Tempo MAV Software and click on Schedules. Click on the Import from USB Drive button in the right column. Choose the drive, use the check boxes to select the desired schedules, and click Start import.

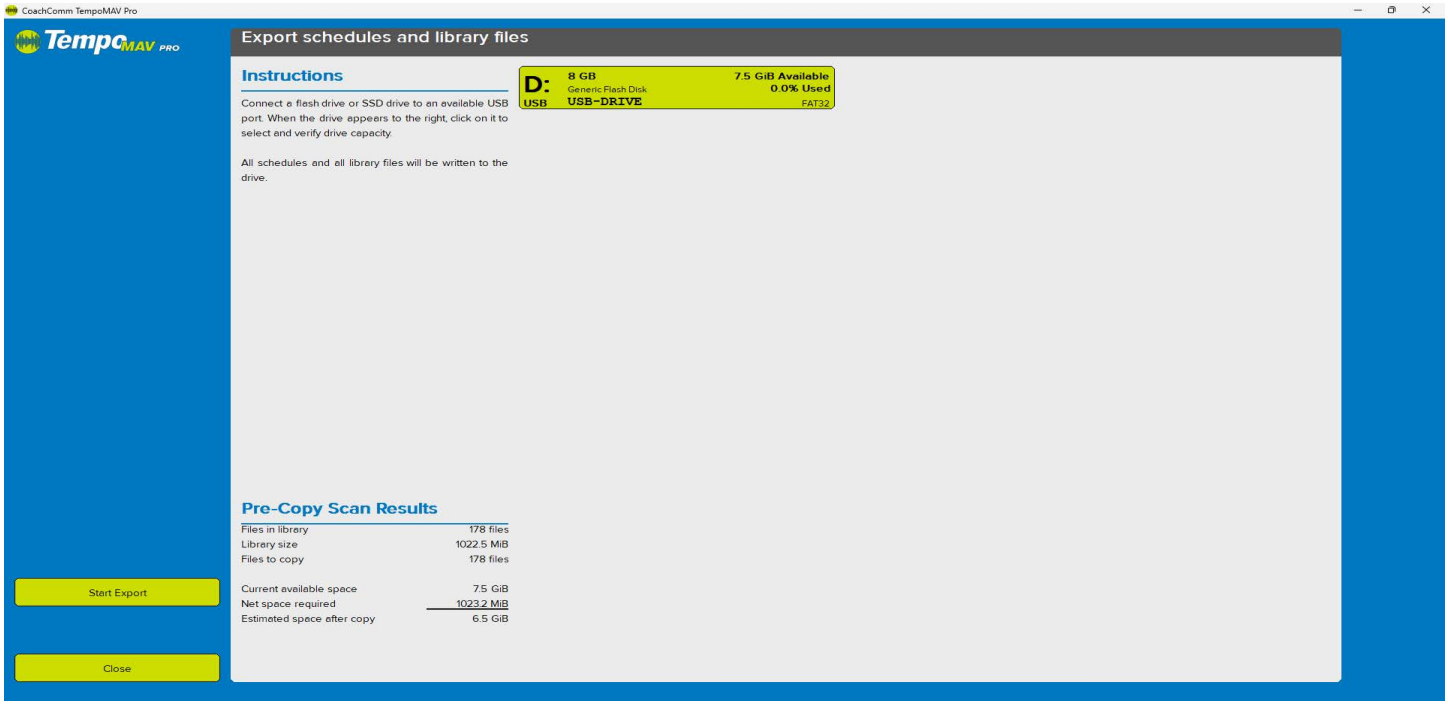


Figure 30: Export Screen

*Important: To show synced changes, you must restart the Tempo MAV Software. Open the Settings and click **Restart Tempo MAV Pro** in the bottom left corner above **Close**.*

Settings

The Settings has four main tabs: Config, System Report, Remotes, and X Control.

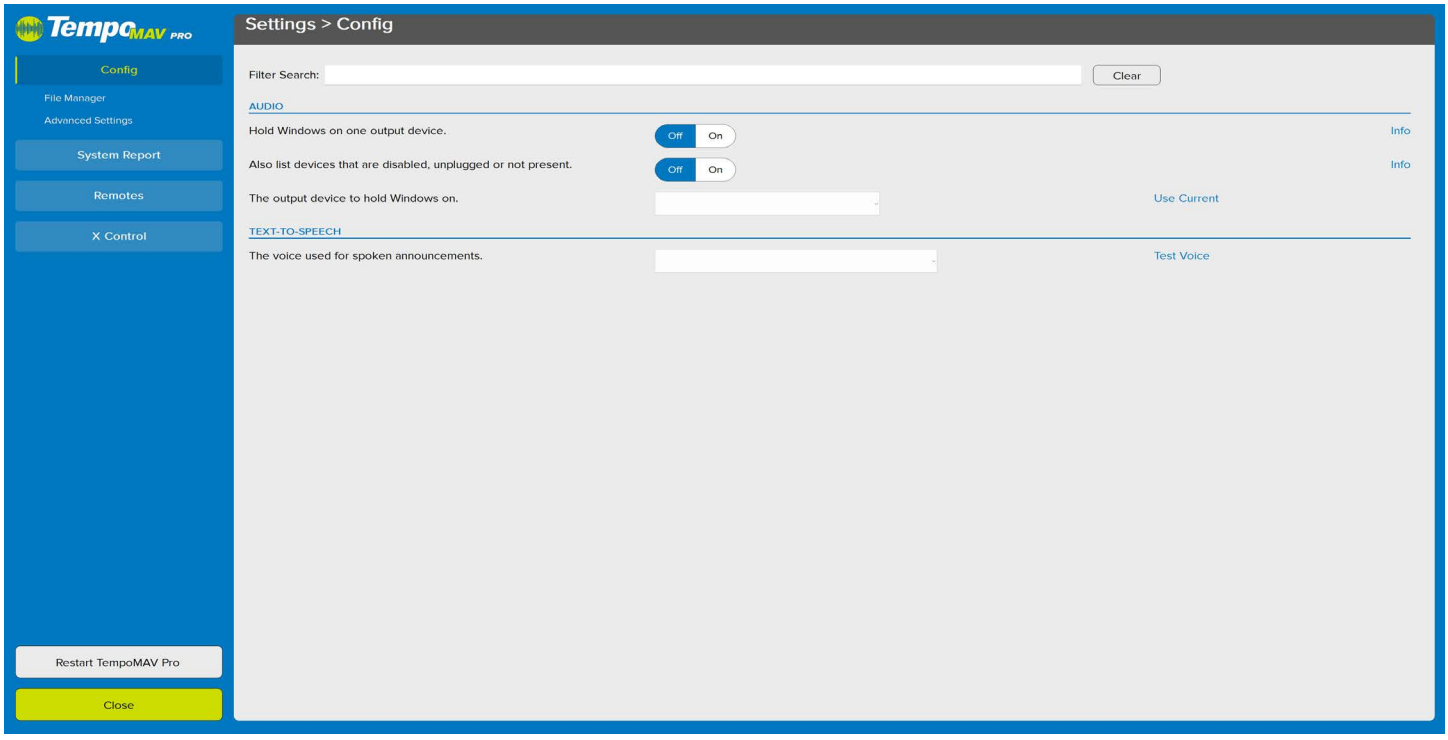


Figure 31: Settings Screen

Config

Basic settings for Audio and text-to-speech.

Config has two sub-tabs.

- File Manager: Opens the TempoMAVlibrary folder within the Tempo MAV software.
- Advanced Settigns: Detailed settings for audio, text-to-speech, schedules, etc.

System Report

Software, Database, and Device information.

System Report has two sub-tabs.

- System Access:
- Defective Tracks:

Remotes

See “Remote Controls” on page 15.

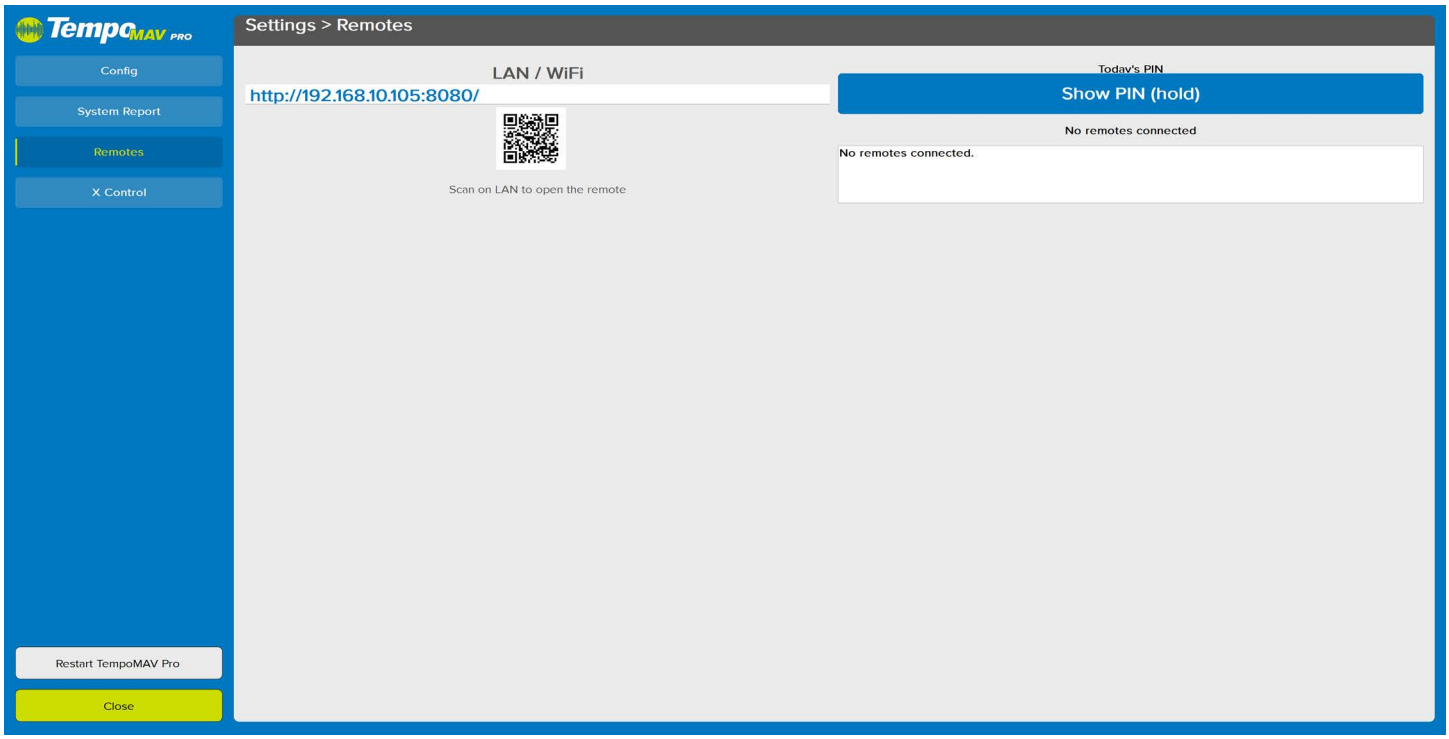


Figure 32: Remotes Screen

X Control

See “Appendix A: CoachComm X-System Add-On” on page 31.

Play a Schedule

1. To play a schedule, open Tempo MAV Software and click on Schedules.
2. Select the schedule you wish to play and click Play Schedule.
3. The Play screen will display, but the practice schedule defaults to Practice Paused after opening. Click the red Practice Paused button to start the schedule. The button will change to green and read Pause Practice. Click it again to pause. Depending on how you set up your schedule periods, you may need to interact with Tempo MAV Pro further, or you may just let it run.

Control Via Tempo MAV Pro Software

Features from the Left Side of the Play screen are listed below:

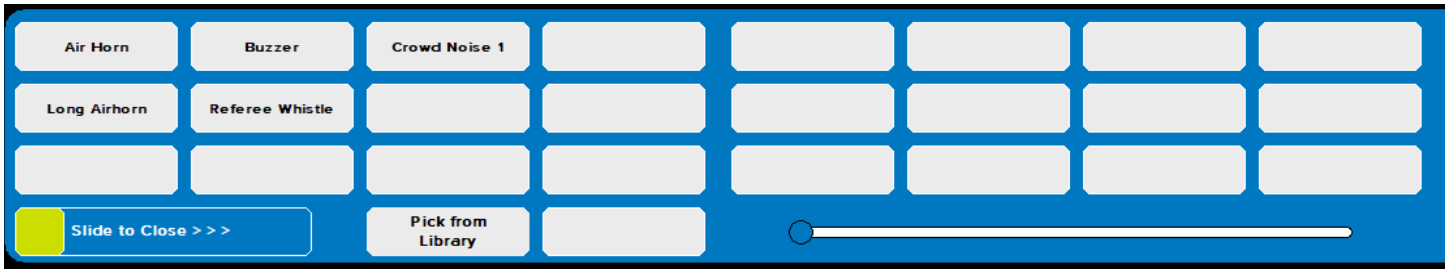


Figure 33: Labeled Tempo Play Screen - Left Side

A. One-Touch Buttons – Allow quick access to regularly played songs and sounds
B. Open Library – Opens library to browse and play any song in your Tempo music library
C. Master Volume Slider – Adjusts the overall system volume, including script audio, audio effects, and voice announce audio
D. Slide to Close – Ends practice and closes the play practice screen.

Features from the Right Side of the Play screen are listed below:



Figure 34: Labeled Tempo Play Screen - Right Side

A. Next Track – Skips current song in the script and plays the next
B. Pause Audio – Pauses script audio
C. Previous Track – Moves to previous song in the script
D. Pause Practice – Pauses clocks and script audio
E. Add 1 Minute – Adds one minute to the period clock
F. Shorten 1 Minute – Removes one minute from the period clock

G. Next Period – Moves to the next period in the script

H. Restart Period – Restarts the current period from the beginning

I. Previous Period – Moves to previous period in the script

J. Periods –

K. 25 second clock/40 second clock – Starts your 25/40 clocks

Note: *Some functions from this screen may display differently if you are connected to the Tempo MAV Software with your desktop computer, rather than with the Tempo MAV Pro's PC.*

Control Via Browser-Based Remote

Many of the control functions (if available) can also be controlled by the Tempo MAV Remote if connected (see "Remote Controls" on page 15) and the Browser-Based Remote (see below).

Note: *Range on software/browser remotes can vary greatly based on the device and environment.*

Setup

1. Open Tempo MAV software.
2. Click Settings.
3. Select the Remotes Tab (See "Settings" on page 24).
4. On the mobile device you wish to use as a remote, connect the Wifi to Tempo AP.
5. Enter the password: Tempo@1!
6. Once connected, either scan the QR code on the Remotes Tab or enter the IP address shown into a browsers URL.
7. When prompted, input the PIN from the Remotes Tab (click and hold down the button to view the PIN).
8. The browser window will open the remote.

Operation

The browser-based remote menu is in the top left corner and contains controls related to the Schedules and Media Player.

Schedule

- List: Choose a Schedule to play.
- Control, Timers, One-Touch, Game Sounds: The buttons to control the Schedule are the same as those in the Tempo MAV Pro Software. See "Play a Schedule" on page 26 for more information on the controls.

Media Player

- Files: Access the Tempo MAV Pro library.
- Play List: Button controls for the Playlist songs assigned in the Media Player on the Tempo MAV Pro software

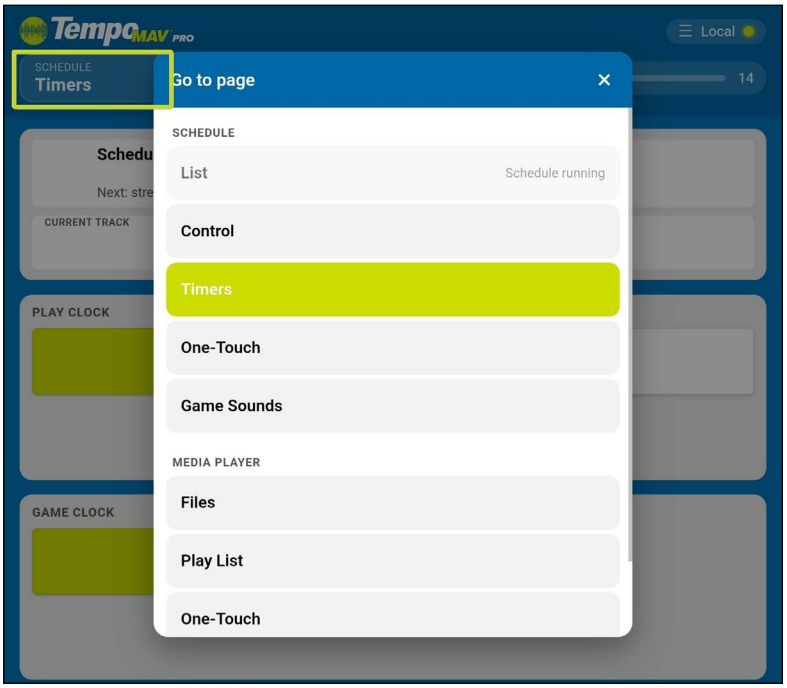


Figure 35: Browser Remote Menu

- One-Touch: Button controls for the One-Touch songs assigned in the Media Player on the Tempo MAV Pro software.
- Upload: Choose the file location and upload files to the Tempo MAV Pro library.

End Schedule

1. Click the button in the top right corner.
2. The pop-up contains the button to Stop Schedule as well as information about the device being used and the option to full screen the remote.

Note: *Full screen option not available on all browsers.*

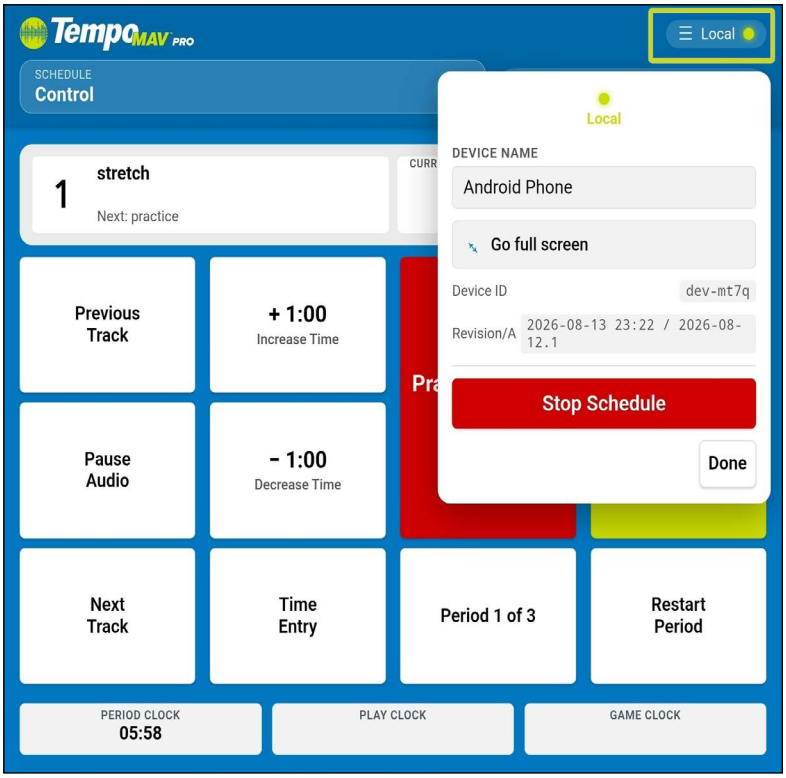


Figure 36: Mobile Remote

System Maintenance and Storage

Basic Maintenance

CoachComm recommends the following best practices when maintaining your Tempo MAV Pro.

1. Make sure you have a backup of your practice schedule on a computer separate from the Tempo MAV Pro.
2. If the system is exposed to rain, dry all parts of Tempo MAV Pro carefully, including cables and connectors.
3. Always make sure that nuts and bolts are secure prior to and after moving or operating.
4. Connect or disconnect cables by holding the connectors (not the sheath of the cable) and pressing the release button if applicable.
5. It is recommended that Tempo MAV Pro be stored in a climate-controlled environment when not in use.
6. Storage Temperature: If a climate-controlled storage space is not available, Tempo MAV Pro equipment can be stored in temperatures ranging from 5° to 130° F. However, when going from cold to warm environments, electronics can form condensation, which can cause damage to the electronic components. If storing your system in these types of conditions, wait for the equipment to acclimate to the ambient temperature before using.
7. Verify that system power is off before storing the system. See additional battery storage safety information below.

Lithium-Polymer Battery Maintenance

Note: *Applies to CoachComm X-System Add-On Radio Pack Batteries*

Storage of your Lithium-Polymer Batteries

When stored, a battery gradually loses its overall charge time due to internal self-discharge, which may reduce its overall power. If storing Radio Pack batteries for two or more weeks, CoachComm highly recommends storing them at a 40–50% charge level, which generally minimizes any permanent power capacity loss. If storing CoachComm X-System Player Modules for more than a week, disconnect battery from rest of player module assembly.

Unused lithium-polymer batteries may enter into a deep discharge state due to internal self-discharge. Once a battery has gone into deep discharge, its onboard circuit protections inhibit the charger from initiating the charge cycle. If a battery does not accept a charge and the LED displays red in the charger, the battery may be in deep discharge. An attempt to revive the battery can be made by repeatedly inserting and removing it several times from the 6-bay charger (CBT-6BAY-01).

Ambient temperature affects the rate at which lithium-polymer batteries degrade. Batteries also degrade and lose overall power capacity if stored (or used) at higher temperatures.

Proper Disposal of Old Lithium-Polymer Batteries

Batteries that appear swollen, deformed, or damaged, or that do not fit properly should never be used. Properly dispose of any batteries in this condition in accordance with the instructions provided by your local authorities. For more information and local drop-off sites, visit http://www.call2recycle.org/.

Battery Shipping Regulations

Rechargeable lithium-polymer batteries are subject to special U.S. and International regulations, particularly regarding transportation. The guidelines detailed in CoachComm's Lithium-Polymer Battery Shipping Guidelines document comply with updated International Air Transport Association (IATA), International Civil Aviation Organization (ICAO), and U.S. Department of Transportation (DOT) Dangerous and Hazardous Goods regulations.

When shipping equipment to CoachComm that includes batteries, it is the shipper's responsibility to ensure that batteries are properly packaged, labeled, and shipped according to local and international guidelines. "Shipper" is defined as the person or school placing the equipment in the package and offering it to the carrier.

Appendix A: CoachComm X-System Add-On

X-Ware will be installed on the Tempo MAV Pro computer. See the CoachComm X-System Manual on CoachComm's website for more information on using X-Ware.

Additional Components for CoachComm X-System Add-On:

- CoachComm X-System Control Unit (CU)
- CoachComm X-System Radio Transceivers (RT)
- CoachComm X-System Radio Pack (RP)

Tempo MAV Pro with X

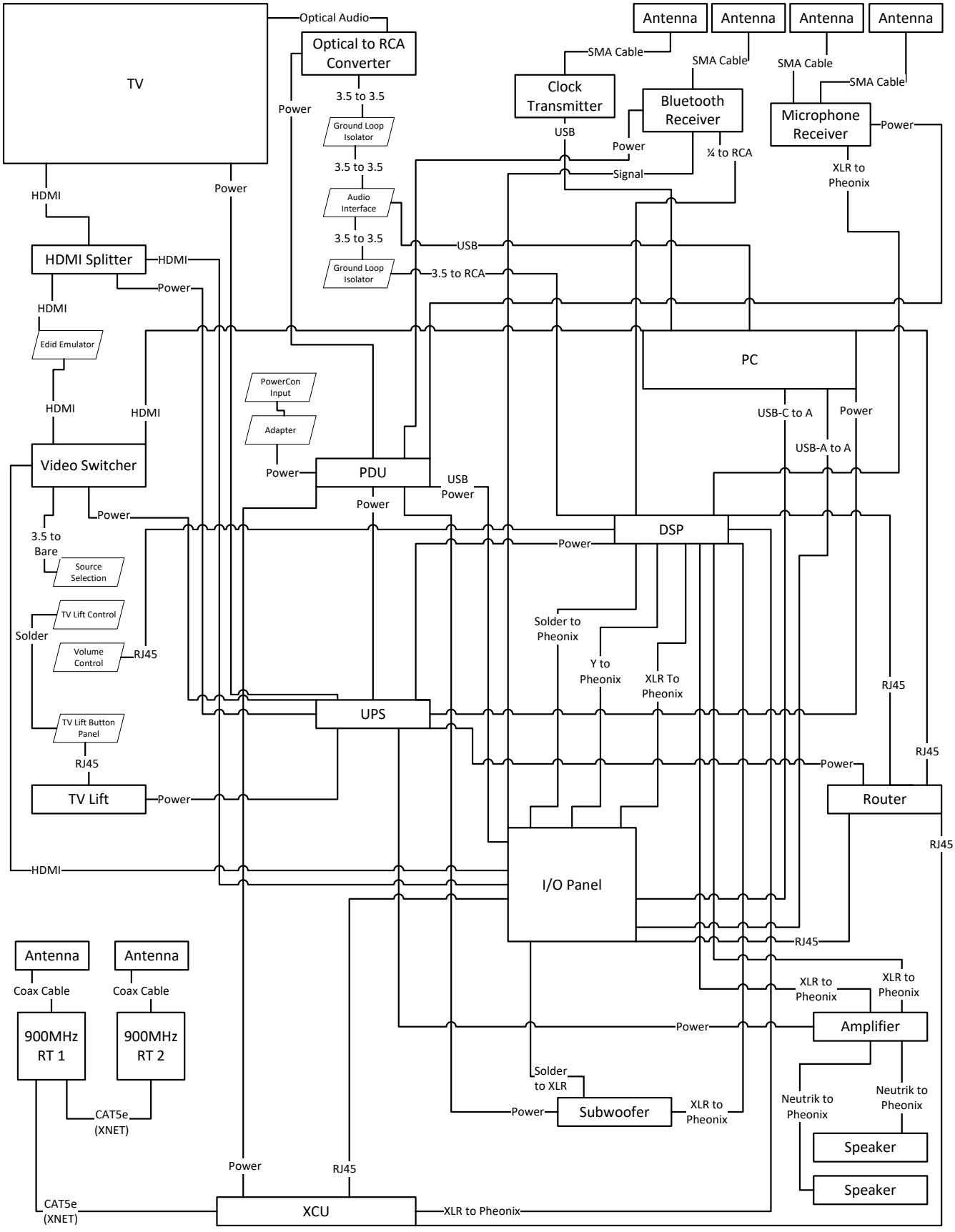


Figure 37: Tempo MAV Pro with X Block Diagram

Rack Components



Figure 38: Rack Components

A. **A/V and PC Components:** Mini PC, Router, Bluetooth receiver, Video Management Components.

B. **TV Lift Controls:** Second set of controls for movement of the motorized TV lift.

C. **Main Power:** 12 Outlet Power Distribution Unit.

D. **Digital Signal Processor:** Mixes audio inputs and outputs.

E. **CoachComm X-System Control Unit:** Serves as the foundation of the wireless communication system and can access, control, and monitor any active device across X-Net.

F. **Wireless Microphone Receiver:** Connects the wireless microphone to Tempo MAV Pro audio (Only available in systems with this optional add-on).

G. **CoachComm X-System Radio Transceivers:** Serves as a point of contact for wireless Radio Packs on X-Net.

H. **High Power Pro Audio Amplifier**

I. **UPS:** Provides up to 10 minutes of backup power when disconnected from external power source.

CoachComm X-System Control For Tempo MAV Pro

To control a Tempo MAV Pro schedule via XRP, a Tempo Control profile must be loaded on the XRP. To view the button configuration for the XRP:

1. Open the Tempo Software by double-clicking the Tempo MAV shortcut on your computer's desktop.
2. Open Setting, then X Control.
3. The X Control tab will show the selected XRP's button configuration.

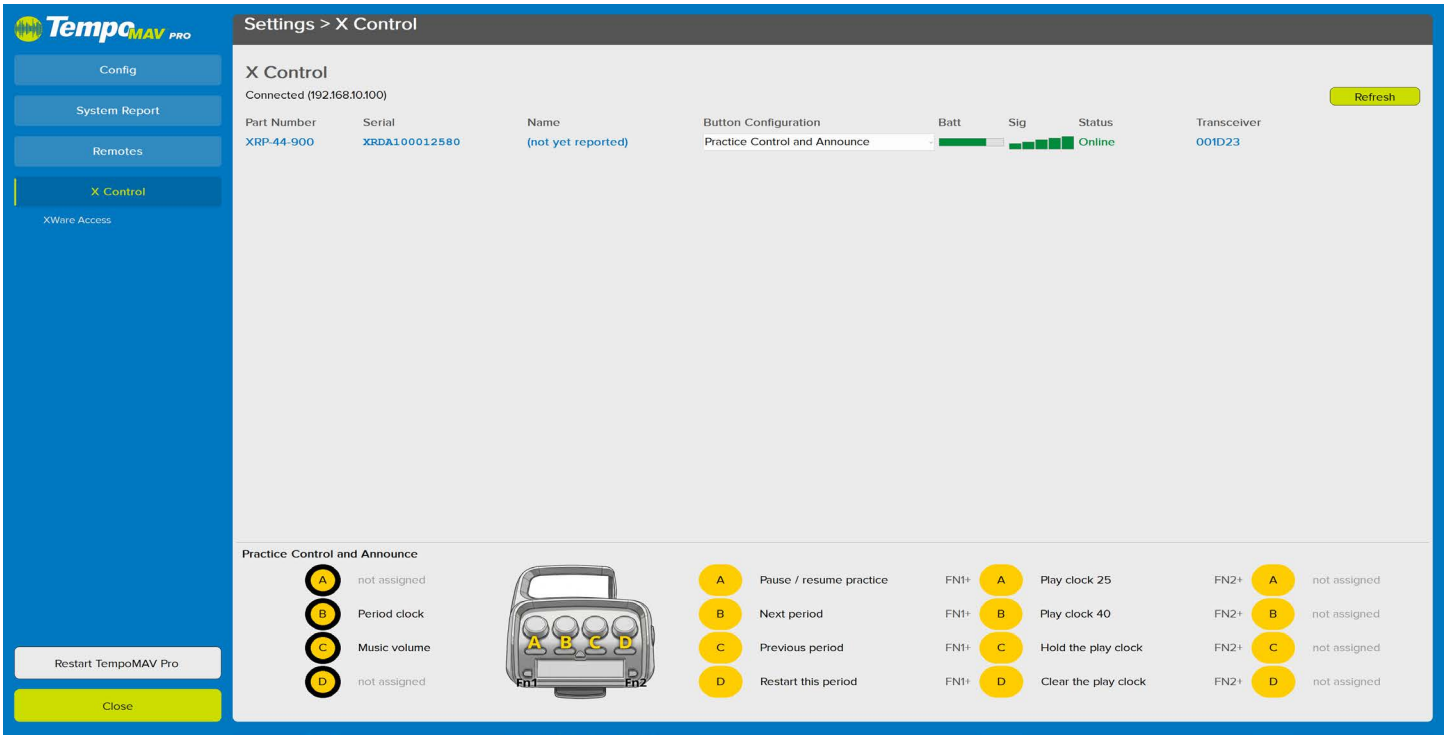


Figure 39: X Control in Tempo MAV Software

Note: *Hold the Shift Button (Fn 1) for more controls as shown in the X Control configuration above.*

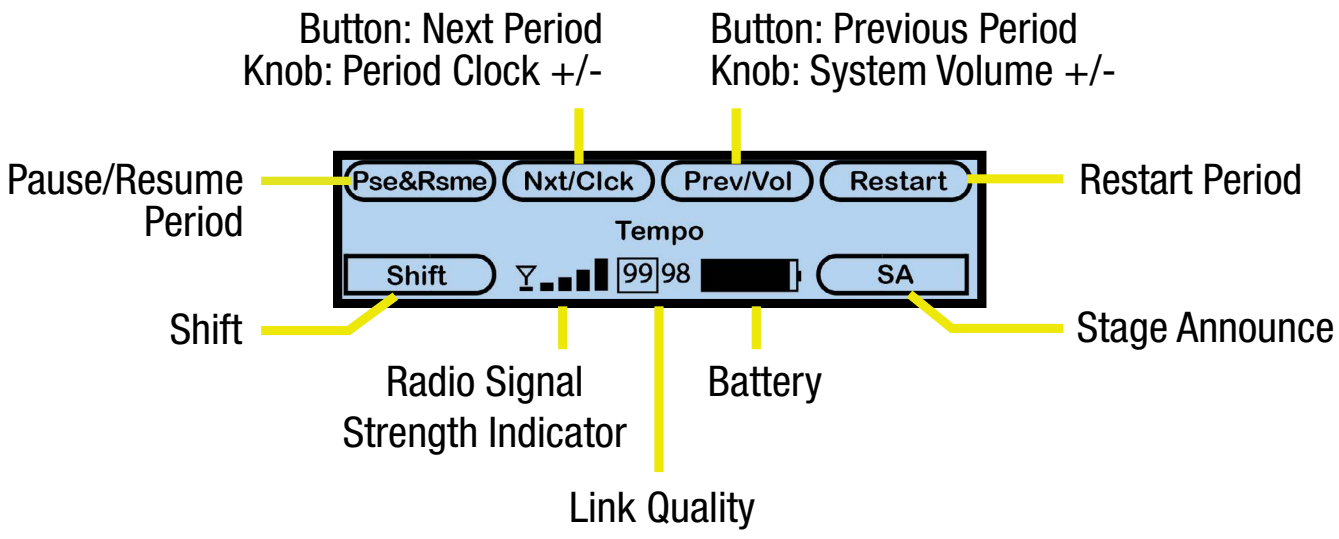


Figure 40: XRP Screen

System Specifications

Tempo MAV Pro

Specification	Tempo MAV Pro	with CoachComm X-System Add-On
Height	4 ft 10 in. (1.47 m) With TV Lifted: 6 ft 10 in. (2.08 m)	
Width	4 ft 9 in. (1.44 m) With Speakers Out: 8 ft 11 in. (2.71 m)	
Depth	2 ft 6 in. (0.76 m)	
Weight	approx. 700 lbs.	
TV IP Rating	IP55	
TV Brightness	2,000 Nits	
Required Power	120V / 15A circuit	
Speaker/AMP Output	122 dB SPL (3,000w)	
Operating Temperature	-28° to 50° C (-20° F to 122° F)	-20° to 50° C (-4° to 122° F)

Product Support

CoachComm support and service personnel are ready to help you with any issues you may have. CoachComm offers product support from 8:00 a.m. to 5:00 p.m. (CST), Monday through Friday. Customers who annually renew their support plan have access to CoachComm's 24/7 after hours support hotline as well. (Access this line by dialing our voice number and following the automated prompts to the After Hours line.) Our company website, www.coachcomm.com, offers supporting product documentation and live chat for help. All questions and/or requests for a Return Material Authorization (RMA) Number should be directed to the Customer Service department:

CoachComm Customer Service Department
Voice: 1.800.749.2761
Fax: 1.888.329.2658
Email: customer.service@coachcomm.com

Returning Equipment for Repair or Maintenance

Do not return any equipment directly to the factory without first obtaining a Return Material Authorization (RMA) Number. Obtaining a Return Material Authorization Number will ensure that your equipment is handled promptly.

All shipments of CoachComm products should be made via UPS, or the best available shipper, prepaid and insured. The equipment should be shipped in the original packing carton; if that is not available, use any suitable container that is rigid and of adequate size to surround the equipment with at least four inches of shock-absorbing material.

Battery Shipping Disclaimer: When shipping equipment to CoachComm that includes batteries, it is the shipper's responsibility to ensure that batteries are properly packaged, labeled, and shipped according to local and international guidelines. "Shipper" is defined as the person or school placing the equipment in the package and offering it to the carrier. Refer to CoachComm's Lithium-Polymer Battery Shipping Guidelines on our website for more information.

All shipments should be sent to the following address and must include a Return Material Authorization Number:

CoachComm Customer Service Department
Attn: Return Material Authorization #
205 Technology Parkway
Auburn, AL 36830-0500

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Severability

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X-Ware™ End User License Agreement (EULA)

This End-User License Agreement (the "EULA") is a legal agreement between you (the "Licensee"), an individual, and CoachComm, LLC (the "Company"), the author of X-Ware (the "Software"), including the deliverables provided pursuant to this EULA, which may include data files, scripts, programs, associated media, printed materials, "online" or electronic documentation.

By installing, copying, or otherwise using the Software, Licensee agrees to be bound by the terms and conditions set forth in this EULA. If Licensee does not agree to the terms and conditions set forth in this EULA, then Licensee may not download, install, or use Software.

Please read this EULA agreement carefully before completing the installation process and using X-Ware. It provides a license to use X-Ware and contains warranty information and liability disclaimers.

This EULA agreement shall apply only to the Software supplied by CoachComm, LLC herewith regardless of whether other software is referred to or described herein. The terms also apply to any CoachComm, LLC updates, supplements, Internet-based services, and support services for the Software, unless other terms accompany those items on delivery. If so, those terms apply.

If you are entering into this EULA agreement on behalf of a company or other legal entity, you represent that you have the authority to bind such entity and its affiliates to these terms and conditions. If you do not have such authority or if you do not agree with the terms and conditions of this EULA agreement, do not install or use the Software, and you must not accept this EULA agreement.

License Grant

A. **Software Product License**. Subject to the terms of this EULA, Company hereby grants to Licensee a royalty-free, non-exclusive, non-transferable license to possess and to use a copy of the Software. Software is being distributed by Company. Licensee is not allowed to make a charge for distributing this Software, either for profit or merely to recover media and distribution costs.

B. **Installation and Use**. Licensee may install and use an unlimited number of copies of Software on a shared computer or concurrently on different computers, and make multiple back-up copies of Software, solely for Licensee's use within Licensee's business or personal use.

Description of Rights and Limitations

A. **Limitations**. The user shall use X-Ware strictly in accordance with the terms of the related Agreements and shall not (a) decompile, reverse engineer, disassemble, attempt to derive the source code of, or decrypt X-Ware; (b) make any modification, adaptation, improvement, enhancement, translation or derivative work from X-Ware; (c) violate any applicable laws, rules or regulations in connection with the user's access or use of X-Ware; (d) reproduce, copy, distribute resell, or otherwise use the software for any commercial purpose; (e) use any other proprietary information interfaces of CoachComm or other intellectual property of CoachComm in the design, development, manufacture, licensing, or distribution of any applications or devices for use with X-Ware.

B. **Separation of Components**. Software is licensed as a single product. Its components may not be separated for use on more than one computer.

C. **Software Transfer**. Licensee may permanently transfer all rights under the EULA, provided recipient agrees to the terms of this EULA.

Intellectual Property

All rights, title, interest, and copyrights in and to the Software, including but not limited to all images, photographs, animations, video, audio, music, text, data, computer code, algorithms, and information, are owned by Company. The Software is protected by all applicable copyright laws and international treaties. Therefore, Licensee is required to treat Software like any other copyrighted material, except as otherwise provided for in this EULA.

A. **Infringement Acknowledgment**. The user and CoachComm acknowledge and agree that, in the event of a third party claim that X-Ware or the user's possession or use of X-Ware infringes any third party's intellectual property rights, the user (and not CoachComm) will be responsible for the investigation, defense, settlement, and discharge of any such claim of intellectual property infringement. You will, however, promptly notify CoachComm in writing of such a claim.

Modifications to X-Ware

CoachComm reserves the right to modify, suspend, or discontinue, temporarily or permanently, X-Ware or any service to which it connects, with or without notice and without liability to the user.

Termination

CoachComm may, in its sole and absolute discretion, at any time and for any reason, suspend or terminate this License and the rights afforded to the user hereunder with or without prior notice. Furthermore, if the user fails to comply with the terms and conditions of this License, then this License and any rights afforded to the user hereunder shall terminate automatically, without any notice or other action by CoachComm. Upon termination of this License, the user shall cease all use of X-Ware and uninstall X-Ware.

Integration

Both parties agree that this EULA is the complete and exclusive statement of the mutual understanding of the parties and supersedes and cancels all previous written and oral agreements and communications relating to the subject matter of this EULA.

Jurisdiction

This EULA shall be deemed to have been made in, and shall be construed pursuant to the laws of the State of Alabama, without regard to conflicts of laws provisions thereof. Any legal action or proceeding relating to this EULA shall be brought exclusively in courts located in Auburn, Alabama, and each party consents to the jurisdiction thereof. The prevailing party in any action to enforce this EULA shall be entitled to recover costs and expenses including, without limitation, attorneys' fees. This EULA is made within the exclusive jurisdiction of the United States, and its jurisdiction shall supersede any other jurisdiction of either party's election.

Non-Transferable

This EULA is not assignable or transferable by Licensee without the prior written consent of Company; any attempt to do so shall be void. Any notice, report, approval or consent required or permitted hereunder shall be in writing and will be deemed to have been duly given if delivered personally or mailed by first-class, registered or certified mail, postage prepaid to the respective addresses of the parties as set forth herein (or such other address as a party may designate by ten (10) days' notice.

Severability

No failure to exercise, and no delay in exercising, on the part of either party, any privilege, any power or any rights hereunder will operate as a waiver thereof, nor will any single or partial exercise of any right or power hereunder preclude further exercise of any other right hereunder. If any provision of this EULA shall be adjudged by any court of competent jurisdiction to be unenforceable or invalid, that provision shall be limited or eliminated to the minimum extent necessary so that this EULA shall otherwise remain in full force and effect and enforceable.

Disclaimer of Warranties

The user acknowledges and agrees that X-Ware is provided on an “as is” and “as available” basis, and that the user’s use of or reliance upon the application and any third party content and services accessed thereby is at your sole risk and discretion. CoachComm and its affiliates, partners, supplies, and licensors hereby disclaim any and all representations, warranties, and guaranties regarding X-Ware and third party content and services, whether express, implied, or statutory, and including without limitation, the implied warranties of merchantability, fitness for a particular purpose, and non-infringement. Furthermore, CoachComm and its affiliates, partners, suppliers, and licensors make no warranty that i) the application or third party content and services will meet your requirements; ii) X-Ware or third party content and services will be uninterrupted, accurate, reliable, timely, secure, or error-free; iii) the quality of any products, services, information, or other material accessed or obtained by you through X-Ware will be as represented or meet your expectations; or iv) any errors in X-Ware or third party content and services will be corrected.

Limitation of Liability

Company shall not be liable to Licensee, or any other person or entity claiming through Licensee any loss of profits, income, savings, or any other consequential, incidental, special, punitive, direct or indirect damage, whether arising in contract, tort, warranty, or otherwise. Even if Company has been advised of the possibility of such damages. These limitations shall apply regardless of the essential purpose of any limited remedy. Under no circumstances shall Company’s aggregate liability to Licensee, or any other person or entity claiming through Licensee, exceed the financial amount actually paid by Licensee to Company for the Software.

Radio Device License Information

Warning: Changes or modifications to this device not expressly approved by CoachComm could void the user’s authority to operate the equipment.

1. FCC Notices

   1.1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference that may cause undesired operation.

   1.2. This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

2. Canada, Industry Canada (IC) Notices

   2.1. This Class A digital apparatus complies with Canadian ICES-003.
   Cet appareil numerique de la classe A est conforme a la norme NMB-003 du Canada.

   2.2. Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.
   Conformément à la réglementation d’Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d’un type et d’un gain maximal (ou inférieur) approuvé pour l’émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l’intention des autres utilisateurs, il faut choisir le type d’antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l’intensité nécessaire à l’établissement d’une communication satisfaisante.

   2.3. This radio transmitter (FCCID: 2AX9C-CCT24 & 2AX9C-CCT900, IC: 30796-CCT24 & 30796-CCT900) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and

required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.
Le présent émetteur radio (FCCID: 2AX9C-CCT24 & 2AX9C-CCT900, IC: 30796-CCT24 & 30796-CCT900) a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

2.4. This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.
Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

RF-Exposure Statements

Radio Packs

X-System Radio Packs have been designed to be worn and used in close proximity to the human body—what the FCC calls a "portable" use.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment is in direct contact with the body of the user under normal operating conditions. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Radio Transceivers

The X-System Radio Transceiver has been designed for use as what the FCC calls a "mobile" device.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm (7.87 in.) between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Non-Radio-Device License Information

Warning: Changes or modifications to this device not expressly approved by CoachComm could void the user's authority to operate the equipment.

1. FCC Notices

   1.1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference that may cause undesired operation.

   1.2. This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

2. Canada, Industry Canada (IC) Notices

   2.1. This Class A digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations. Cet appareillage numérique de la classe A répond à toutes les exigencies de l'interférence canadienne causant des règlements d'équipment.

Warranty Information

Limited Warranty

CoachComm X-System® and Tempo MAV® products are warranted to be free from defects in materials and workmanship for a period of one year from the date of sale to the end user.

CoachComm Cobalt®, Tempest®, and CoachComm Connex® systems carry a two-year product warranty.

The purchase of a maintenance and support plan is not a condition of coverage under this limited warranty; however, purchasing a plan does extend a product's warranty for an additional year.

The sole obligation of CoachComm, LLC during the warranty period is to provide, without charge, parts and labor necessary to remedy covered defects appearing in products returned prepaid to CoachComm, LLC. This warranty does not cover any defect, malfunction, or failure caused by circumstances beyond the control of CoachComm, LLC, including but not limited to negligent operation, abuse, accident, failure to follow instructions in this Operating Guide, product misuse, defective or improper associated equipment, product alteration, modification and/or repair not authorized by CoachComm, LLC or shipping damage. Products with their serial numbers removed or effaced are not covered by this warranty.

This limited warranty is the sole and exclusive warranty given with respect to CoachComm, LLC products. It is the responsibility of the user to determine before purchase that this product is suitable for the user's intended purpose.

THE PROVIDED WARRANTIES ARE EXCLUSIVE AND TAKE THE PLACE OF ALL OTHER EXPRESS OR IMPLIED WARRANTIES OR CONDITIONS INCLUDING BUT NOT LIMITED TO WARRANTIES OR CONDITIONS OF MERCHANTABILITY, SATISFACTORY QUALITY, INFRINGEMENT AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF WHICH ARE DISCLAIMED.

Parts Limited Warranty

Replacement parts for CoachComm, LLC products are warranted to be free from defects in materials and workmanship for 120 days from the date of sale to the end user.

This warranty does not cover any defect, malfunction, or failure caused by circumstances beyond the control of CoachComm, LLC, including but not limited to negligent operation, abuse, accident, failure to follow instructions in the Operating Manual, defective or improper associated equipment, attempts at modification and/or repair not authorized by CoachComm, LLC, and shipping damage. Any damage done to a replacement part during its installation voids the warranty of the replacement part.

This limited warranty is the sole and exclusive express warranty given with respect to CoachComm, LLC products. It is the responsibility of the user to determine before purchase that this product is suitable for the user's intended purpose. ANY AND ALL IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE DURATION OF THIS EXPRESS LIMITED WARRANTY. NEITHER COACHCOMM, LLC NOR ANY AUTHORIZED RESELLER WHO SELLS COACHCOMM PRODUCTS IS LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND.

Battery Warranty

CoachComm provides a one-year warranty for all CoachComm branded lithium-polymer rechargeable batteries (one year from the date of sale to and purchase by the end user). The warranty period is based upon the expectation that the battery will deliver 80% of its initial capacity after 300 cycles at typical power loads. Lithium-polymer batteries will continue to operate below 80% capacity threshold; however, the capacity (run time) delivered between charges will continue to decrease. Apart from this warranty, batteries are also covered as part of the customer's annual maintenance plan (where applicable).

Tempo MAV™ PRO

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