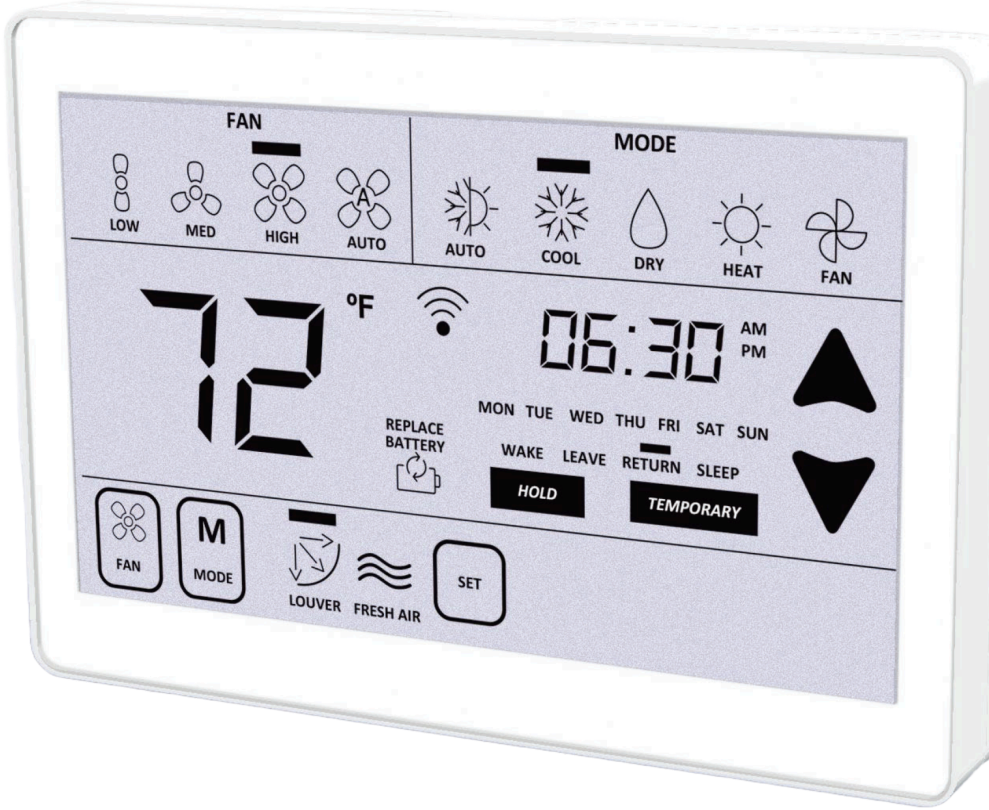
AIO® Wireless Wall-Mounted Infrared Controller (LCDW)

User Guide



innova

CONTACT INFO

VIP Customer/Technical Support
Email: vip@innova.co
Phone: (212) 204-2700

DISCLAIMER

This documentation is intended for informational use only and should not be construed as a binding representation or contract. This documentation is provided “as is” without warranty of any kind, either express or implied. INNOVA and its affiliates disclaim all liability arising from the use or misuse of this documentation.

Illustrations may not be to scale, and all information and dimensions stated herein are subject to change at any time at the sole discretion of INNOVA. Benefits described herein apply only to the extent that the product is installed correctly in the correct application and used for its intended purpose.

INNOVA is constantly innovating and improving its products and reserves the right to modify product design and specifications without notice and without incurring any obligations.

AIO® is a registered trademark of INNOVA.

Copyright © 2026 INNOVA. All rights reserved.

1. INTRODUCTION

The LCDW is a wireless, battery-powered controller designed to control INNOVA air conditioners via infrared (IR). It can operate in two ways:

- **Automatic:** using the built-in 7-day scheduler.
- **Manual:** using the front-panel buttons.

1.1 Key Features

- Powered by 2 × 1.5 V AAA batteries
- Infrared control for the INNOVA AC units
- 7-day programmable scheduling for automatic AC operation
- Manual override for On/Off, Mode, Fan, Louver, and Set Points
- Large, easy-to-read display with intuitive button layout

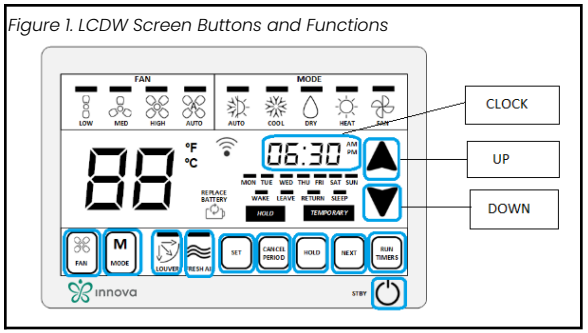
1.2 Safety Notes

- The controller must face the air conditioner, within 15 ft. (4.6 m).
- Install batteries correctly before use.

2. MAIN SCREEN AND BUTTON FUNCTIONS

The controller has a touch interface with buttons and icons (see Figure 1).

Figure 1. LCDW Screen Buttons and Functions

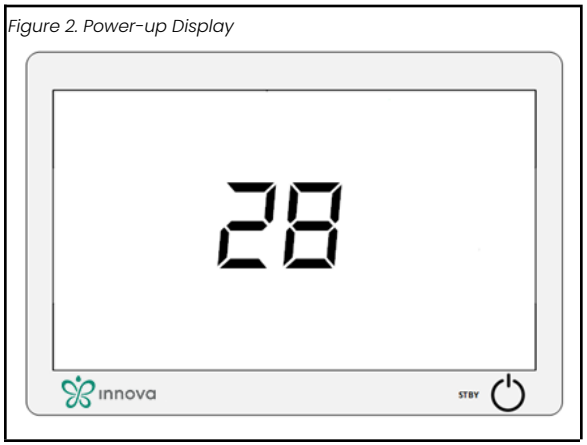


- STBY (Standby) – Turns controller screen on/off and sends AC On/Off command.
- RUN TIMERS – Resumes the scheduler if in Hold/Temporary mode.
- NEXT – Moves between settings (hour → minute → set point).
- HOLD – Stops the scheduler. The display shows "HOLD" and replaces the HOLD button with the RUN TIMERS button.
- CANCEL PERIOD – Appears in the Scheduler menu (not available for the "Wake" period). Cancels the selected period.
- SET – Confirms settings. Hold 3 sec to open the Scheduler.
- FRESH AIR – Reserved for future use; not active in this version.
- LOUVER – Sends louver command to AC.
- MODE – Switches AC mode (Cool, Heat, etc.). Hold 3 sec for General Menu.
- FAN – Switches fan speed. Hold to open SYNC Menu.
- CLOCK – Hold 1.5 sec to set clock.
- UP
  - Typically increases the set point by 1ºF (0.6ºC) and sends the new value.
  - In menus, used to navigate and adjust parameters.
- DOWN
  - Decreases the set point by 1ºF (0.6ºC) and sends the new value.
  - In menus, used to navigate and adjust parameters.

2.1 Display on First Power-Up

When first powered (batteries inserted), the display briefly shows the software version (see Figure 2).

Figure 2. Power-up Display



The controller then automatically enters to Clock Setting menu (the clock digits will blink).

2.2 Automatic changeover and fan modes

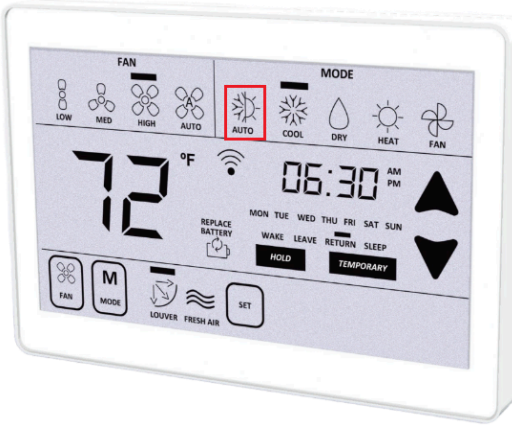
The LCDW has two different types of automatic modes, and it's important to know how to activate each one.

Automatic changeover mode
This mode switches between heating and cooling based on the space's needs.

To select the automatic changeover mode:

1. Under MODE, press the **AUTO** button.
2. The unit enters automatic changeover mode, with the setpoint set to 24ºC.

Figure 3. Automatic changeover mode

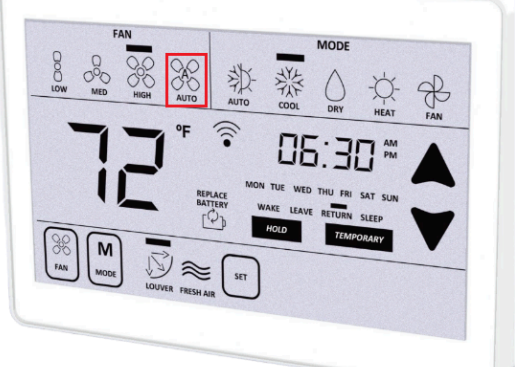


Automatic fan mode
This mode changes the fan speed based on the space's needs.

To select the automatic fan mode:

1. Under **FAN**, press the **AUTO** button.
2. The unit selects the automatic fan mode.

Figure 4. Automatic fan mode



3. CLOCK SETTING MENU

When the device is first powered, the clock will blink on the display. You must set the clock for scheduling to work.

3.1 Setting the Clock

Hour Adjustment

- Press UP or DOWN to set the hour.
- If the time format (F3 in the General Menu) is set to 24-hour, the hour range is 0–23.
- If the time format is AM/PM, the hour range is 1–12.
- Press SET to confirm.

Minute Adjustment

- Press UP or DOWN to set the minute.
- Press SET to confirm.

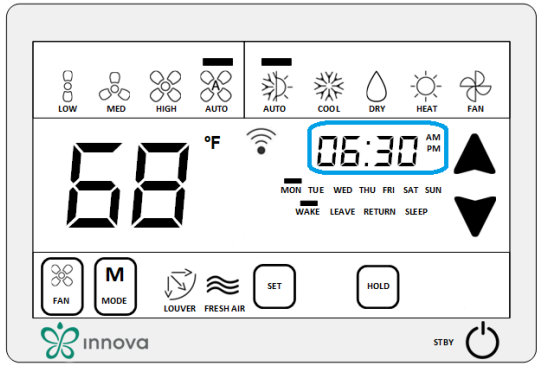
Weekday Adjustment

- Press UP or DOWN to select the day of the week.
- Press SET to confirm.

If no buttons are pressed for 8 seconds, the controller exits without saving changes.

Note: To re-enter the Clock Setting menu at any time, press and hold CLOCK (00:00) for about 1.5 seconds. A double beep confirms you have entered the menu.

Figure 3. Setting the Clock



4. SYNCHRONIZATION WITH THE AIR CONDITIONER

The controller must be synchronized with your air conditioner before it can operate correctly. This step ensures that both displays show the same settings.

4.1 Automatic Synchronization (on first setup):

1. Insert the batteries and set the clock. The word SYNC will blink on the controller display.
2. Use the Mode, Fan, Louver, and Set Point buttons to adjust the controller until its settings match the air conditioner's display.
3. Once the controller and AC unit are aligned, stop pressing buttons. After about 10 seconds, the controller will automatically complete the synchronization and return to regular operation.

4.2 Manual Synchronization (if needed later):

1. Press and hold the FAN button until SYNC blinks on the display.
2. Adjust the Mode, Fan, Louver, and Set Point on the controller to match the air conditioner.
3. Wait 10 seconds without pressing buttons. The controller will exit SYNC mode automatically and resume regular operation.

Tip: While in SYNC mode, the controller does not send commands to the air conditioner. This allows you to freely adjust the controller display until both devices match.

5. GENERAL MENU

The General Menu allows you to configure the controller's core settings such as time format, temperature units, and scheduling preferences.

5.1 Entering the General Menu:

1. Press and hold the MODE button for 3 seconds.
   a. You'll hear two beeps.
   b. The screen will display F1, which is the first menu option.
2. Use the UP and DOWN buttons to scroll through the menu items (F1, F2, F3, etc.).
3. When the option you want appears, press SET to enter it.
4. Use UP/DOWN to adjust the setting.
5. Press SET again to confirm.
6. To exit the menu completely, press SET without selecting a submenu, or wait 8 seconds without pressing any buttons. The controller will automatically return to the main screen.

5.2 Menu Options

Figure 4. Menu Options

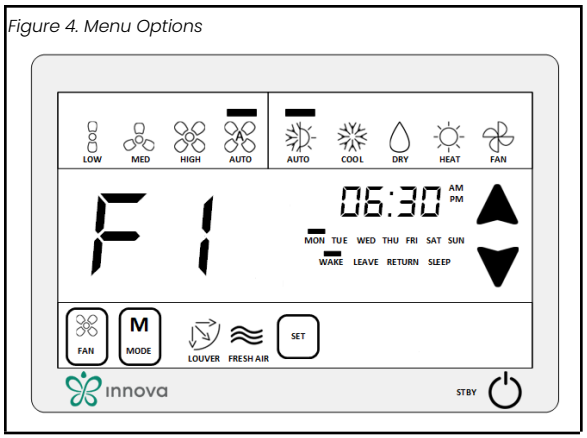
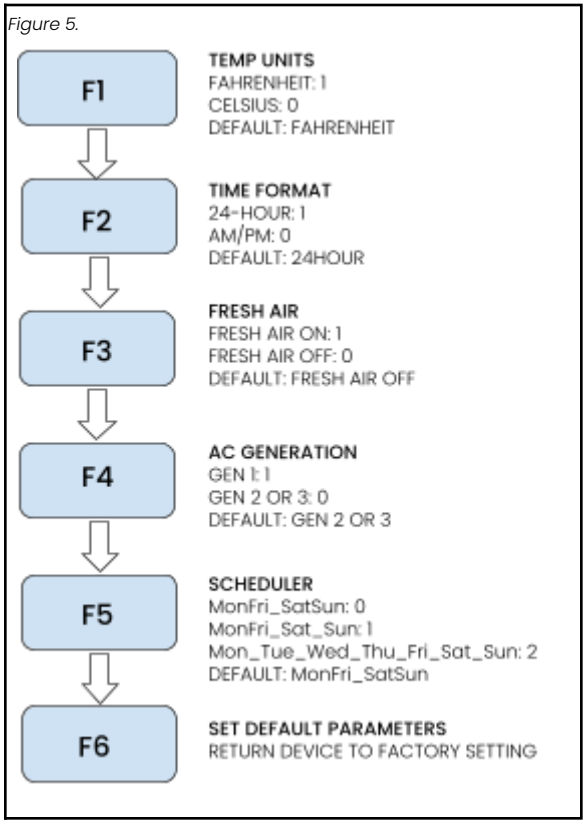


Figure 5.



5.2.1 Example: Changing the Time Format to AM/PM

1. Press and hold MODE for 3 seconds.
2. When you see F1, press UP until F3 (the time format parameter) is displayed.
3. Press SET to open the F3 submenu.
4. Press UP or DOWN to select 0 (for AM/PM).
5. Press SET to confirm.
6. Press SET again (when in the main level of the menu) to exit the General Menu.

6. SCHEDULER MENU

The Scheduler lets you program temperature set points for different parts of the day. Each day can have up to four periods: Wake, Leave, Return, Sleep.

6.1 Entering the Scheduler Menu:

1. Press and hold SET for 3 seconds.
   a. You'll hear two beeps.
   b. The display will show Monday (MON) with the Wake period selected.
   c. The hour digits will blink, ready for adjustment.
2. If no action is taken within 8 seconds, the controller will exit the Scheduler automatically.

6.2 Setting a Period (e.g., "Wake")

1. Hour: Press UP or DOWN to adjust the start hour. Press NEXT to move on.
2. Minute: Press UP or DOWN to adjust the start minute. Press NEXT to move on.
3. Set Point: Press UP or DOWN to change the temperature set point for that period. Press NEXT to move to the next period (Leave, Return, Sleep).

You can repeat these steps for each period. Only the Wake period is mandatory; Leave, Return, and Sleep can be cancelled using the CANCEL PERIOD button if not needed.

6.3 Overlapping Periods

To prevent overlaps, the controller automatically adjusts the next period to start at least 10 minutes after the previous period. For example:

- If Wake ends at 08:25, and Leave was originally at 08:00, Leave will automatically adjust to 08:35 to avoid overlap.
- If the Wake period is set late, there isn't sufficient time for subsequent periods (for example, 23:54), the next periods may be cancelled for that day.

6.4 Default Scheduler Values

The default times and set points for Heat Mode and Cool Mode are shown in the tables below. Non-Heat/Cool modes follow the Cool defaults. (Fan Only - Auto – Dry)

Heat Mode Defaults

Table 1. Heat Mode Defaults

Day	Wake (08:00, 75°F [23.9°C])	Leave (10:00, 83°F [28.3°C])	Return (18:00, 75°F [23.9°C])	Sleep (22:00, 83°F [28°C])
Monday	08:00 – 75°F (23.9°C)	10:00 – 83°F (28.3°C)	18:00 – 75°F (23.9°C)	22:00 – 83°F (28.3°C)
Tuesday	08:00 – 75°F (23.9°C)	10:00 – 83°F (28.3°C)	18:00 – 75°F (23.9°C)	22:00 – 83°F (28.3°C)
Wednesday	08:00 – 75°F (23.9°C)	10:00 – 83°F (28.3°C)	18:00 – 75°F (23.9°C)	22:00 – 83°F (28.3°C)
Thursday	08:00 – 75°F (23.9°C)	10:00 – 83°F (28.3°C)	18:00 – 75°F (23.9°C)	22:00 – 83°F (28.3°C)
Friday	08:00 – 75°F (23.9°C)	10:00 – 83°F (28.3°C)	18:00 – 75°F (23.9°C)	22:00 – 83°F (28.3°C)
Saturday	08:00 – 75°F (23.9°C)	10:00 – 83°F (28.3°C)	18:00 – 75°F (23.9°C)	22:00 – 83°F (28.3°C)
Sunday	08:00 – 75°F (23.9°C)	10:00 – 83°F (28.3°C)	18:00 – 75°F (23.9°C)	22:00 – 83°F (28.3°C)

Cold Mode Defaults

Table 2. Cold Mode Defaults

Day	Wake (08:00, 70°F [21.1°C])	Leave (10:00, 62°F [16.7°C])	Return (18:00, 70°F [21.1°C])	Sleep (22:00, 62°F [16.7°C])
Monday	08:00 – 70°F (21.1°C)	10:00 – 62°F (16.7°C)	18:00 – 70°F (21.1°C)	22:00 – 62°F (16.7°C)
Tuesday	08:00 – 70°F (21.1°C)	10:00 – 62°F (16.7°C)	18:00 – 70°F (21.1°C)	22:00 – 62°F (16.7°C)
Wednesday	08:00 – 70°F (21.1°C)	10:00 – 62°F (16.7°C)	18:00 – 70°F (21.1°C)	22:00 – 62°F (16.7°C)
Thursday	08:00 – 70°F (21.1°C)	10:00 – 62°F (16.7°C)	18:00 – 70°F (21.1°C)	22:00 – 62°F (16.7°C)
Friday	08:00 – 70°F (21.1°C)	10:00 – 62°F (16.7°C)	18:00 – 70°F (21.1°C)	22:00 – 62°F (16.7°C)
Saturday	08:00 – 70°F (21.1°C)	10:00 – 62°F (16.7°C)	18:00 – 70°F (21.1°C)	22:00 – 62°F (16.7°C)
Sunday	08:00 – 70°F (21.1°C)	10:00 – 62°F (16.7°C)	18:00 – 70°F (21.1°C)	22:00 – 62°F (16.7°C)

7. HOLD FUNCTION

Press the HOLD button to disable the scheduler indefinitely. The screen will display HOLD, and the HOLD button will be replaced by RUN TIMERS.

- RUN TIMERS restarts the scheduler from its next scheduled period.

8. TEMPORARY OVERRIDE

If the scheduler is active and you press the UP or DOWN buttons, the controller will enter a TEMPORARY mode, shown on the display. You can then adjust the set point for the current period. This override remains in effect until the next scheduled period begins, at which point normal scheduling automatically resumes.

9. ADDITIONAL NOTES

Battery Replacement

- Use only 1.5 V AAA alkaline batteries.
- Replace both batteries at the same time with correct polarity (+/-).
- A low-battery indicator may appear if the battery power is insufficient.

Maintenance

- Clean the controller's surface with a soft, dry cloth.
- Avoid using harsh chemicals or water on the device.

Troubleshooting

- Ensure that batteries are fresh, new, and installed with the correct polarity (+/-).
- Check that the IR transmitters on the controller are not obstructed.
- Make sure the correct AC model (INNOVA) is being controlled.

If issues persist, contact customer support or a qualified technician.

Warranty and support

Refer to your purchase documentation for warranty details. For additional help, software updates, or product inquiries, please contact your authorized dealer or visit our website.

Thank you for choosing the LCDW controller

With over 20 years of experience in the climate comfort sector, we have a clear goal: growth through innovation. Our team is laser-focused on the conception, development, and production of innovative heating, ventilation, and air conditioning solutions. This mission has developed through bringing together technical skills, creativity, technology, design, Italian passion, and a global vision to achieve the best energy efficiency and performance..

innova.co | **USA:** 216-710-1000 **Canada:** 416-739-1000

MADE IN ITALY

© 2026 INNOVA. All rights reserved.

Revised September 1, 2026

AIO® Wireless Wall-Mounted Infrared Controller (LCDW)
User Guide