Clock Installation Guide

Before You Start

1. If this installation is part of a new wireless clock system, please review the system manual and install the transmitter system.
2. When adding clocks, make sure the system is fully operational and **transmits the time synchronization signal <u>every minute</u>**:
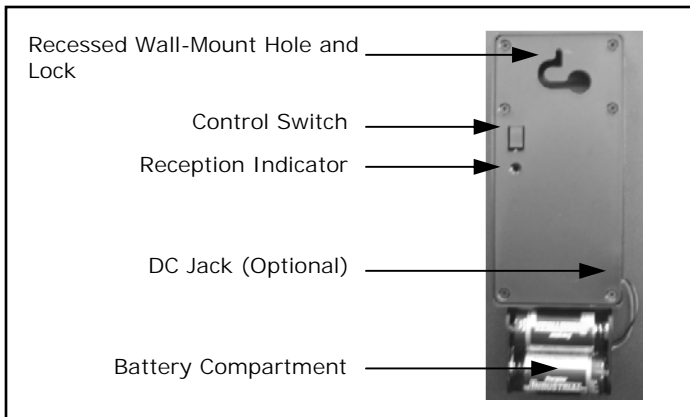
   VS4820: press **FN + F11** , VS4810: press **F8**, VS2910/VS4500: press **C** key (screen should read "Sync is On")
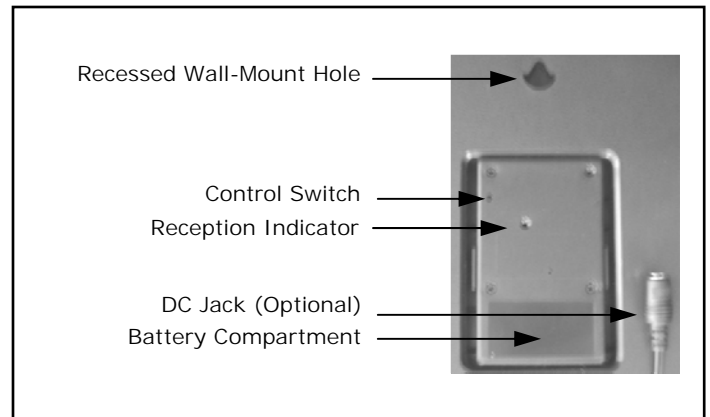
Unpacking the Clock

It is recommended that you keep all packing materials in case you need to later transport or return it for servicing. Some clocks use a glass lens that will break during shipment if not packed properly.

Identifying the Clock Movement Type

The clocks utilize two types of movements that function in the same way. Use the images below to identify the clock movement and locate the battery compartment, control switch and reception indicator.

Recessed Wall-Mount Hole and Lock

Control Switch

Reception Indicator

DC Jack (Optional)

Battery Compartment

Recessed Wall-Mount Hole

Control Switch

Reception Indicator

DC Jack (Optional)

Battery Compartment

Clock Movement Type A   **Clock Movement Type B**

Type A movement usually utilizes two external C size alkaline batteries, unless the clock is powered by AC (110V) power. In that case, the clock uses two internal rechargeable AA size batteries or "Green" power cell.
Type B movement usually utilizes two internal AA size alkaline, unless the clock is powered by AC (110V) power. In that case, the clock uses two internal rechargeable AA size batteries or "Green" power cell. Battery powered clocks in double-sided configuration use two external C size alkaline batteries.

All AC (110V) powered clocks require DC adaptor to be connected to the DC jack.

Activating the Clock

Battery operated clocks are shipped from the factory with the batteries not installed or disconnected by a pull-out battery tab. Power clocks with rechargeable batteries are shipped turned off with batteries or "Green" power cell installed.

Notes: Clocks marked as version 2.10 and higher are compliant with the FCC requirement for 2.5KHz narrow band transmission. If your system and transmitter were purchased before 2011 and were not modified to comply with the FCC narrow band (12.5KHz) requirements, these clocks may not respond to the time signal transmitted by your system. Please contact Visiplex to coordinate the required system and transmitter upgrade.
In addition, to allow the clocks to receive the time signal from the system controller, make sure the system controller is set to transmit the time signal every minute (i.e., Installation Mode).

Follow these steps to activate the clock:

1. For power clocks, connect the DC adaptor to the DC jack and wait for 1 minute. If the clock does not start to work, press and hold the **Control Switch** for 2 seconds to activate the clock. If the clock still does not start working, leave it connected to the power source for up to 3 hours until it starts working.
   For battery operated clocks, press and hold the **Control Switch** for 5 seconds. Install the batteries matching the indicated polarity or pull out the battery tab (Type B movement). Double-sided clocks may require the removal of one clock for batteries installation and activation.

2. Some clock models (version 3.111 and higher, shipped starting 05/2024) will enter a self-test initialization mode after power source is connected. The seconds hand will advance 5 seconds and remain there for approximately 3-5 minutes.
   No user interaction is required during that time and after this initialization process is completed, the clock will resume operation as described in step 3.

3. The clock's hands will start moving within few seconds and will be all aligned at 12:00 within 1-2 minutes. This process is required to electronically synchronize the hands position after shipping.

Note: If the clocks hands do not align and stop at 12:00, remove the batteries or power source and repeat step 1.

4. After the alignment process is completed, the clock **Reception Indicator** will start flashing as the clock starts searching for the time synchronization signal.
   Note: Earlier models may not start working and searching for time signal after the alignment process is completed. Press and hold the **Control Switch** for 2 seconds to activate the clock.
5. Within 1-2 minutes, the clock will receive the synchronization signal (assuming the system transmitter is active and there is a good signal reception in your area).
6. If the synchronization signal was received, the **Reception Indicator** will turn off and the clock's hands will be set automatically to the system time.
   If the synchronization signal was not received, the **Reception Indicator** will turn off after 2 minutes after the signal search mode is timed out. Check system operation and retry.
7. To turn off the clock, press and hold the **Control Switch** for approximately 7 seconds until the **Reception Indicator** turns off. The clock's hands will move to 12:00 and the clock will turn off.
   Note: If the clocks hands do not align and stop at 12:00, remove the batteries or power source and repeat step 1.
8. To turn on the clock, press and hold the **Control Switch** for 2-3 seconds until the clock's hands start moving.

Analog Clock Synchronization Mode

The clock will automatically search for a synchronization signal every 24 hours at 2AM (**Default Synchronization Mode**).
If required, the synchronization mode can be changed to six times during 24 hours period (2AM, 6AM, 10AM, 2PM, 6PM and 10PM). Follow these steps to change the synchronization mode:

1. Remove one of the batteries and wait 15 seconds.
2. Insert the battery while holding down the **Control Switch**. Release the **Control Switch.**
3. To reset the clock back to the **Default Synchronization Mode**, remove one of the batteries, wait 15 seconds and then re-insert the battery.

Digital Clock Setup

Digital clocks must be plugged in to a power outlet and will be synchronized to the correct time within few minutes. Some clocks require more than one transmission to change the time and date displayed.
There is no other special setup procedure needed.
Note: Some digital clocks may have some setup buttons. Please avoid using these buttons, as it may result in the wrong time being displayed.

Clock Placement

Clock placement may affect the quality of signal received. Consider these recommendations to ensure optimal performance:

1. Walls with hidden metal object or duct will reduce the sensitivity of the clock.
2. Special shielded room (such as X-Ray rooms) may block a big portion of the RF signal causing bad or no reception at that area.
3. Walls with high-voltage wiring or strong magnetic fields (such as engine or generator rooms) may cause interference with the RF signal and reduce the clocks reception at that area.

For best results, perform a signal coverage test before starting the clock installation process to improve the system's overall performance and reduce installation time.

Clock Installation

Single Clock - The clock can be mounted onto a wall using a #6 screw or a 7/64″ (approx. 3.0mm) nail with 1.5-2.0″ length. The screw or nail head diameter should be 15/64-3/8″ (approx. 6-10mm).
Install the nail or screw in the location where the clock will be hung. Leave ample space of 3/8-1/2″ (approx. 10-12mm) between the wall and the screw or nail head.
Make sure the screw or nail is secure. Fit the clock's **Wall-Mount Recess Hole** onto the screw or nail head while making sure the clock is fully flush with the wall surface.

Double-Sided Clock - Use the base mounting holes to attach the clock to the wall or ceiling. If required, reposition the clocks to match the wall or ceiling installation.

Digital Clock - Use the mounting brackets to attach the clock to the wall or ceiling.

1.5-2.0" No. 6 Screw with 0.3" head size.

1.5-2.0" 3mm nail with wide 0.3" head size.
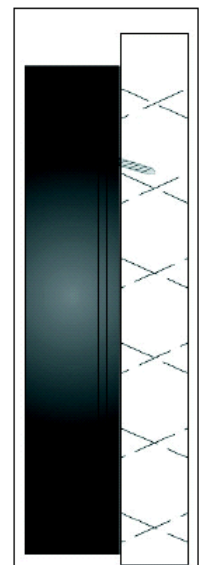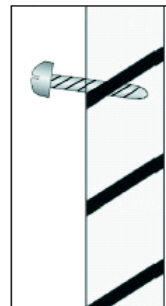
Note: Please contact Visiplex technical support (847-229-0250 or support@visiplex.com) with any questions or if further assistance is required.