



Satellite Time (Similar to Atomic time)

In general Satellite synchronization is a well-known system and is a vital component to a modern Next Generation program. These satellites orbit about 19,3 km above us, and complete one orbit every 12 hours. They are solar powered, fly in medium Earth orbit and transmit radio signals to receivers on the ground. These group of satellites working together and circling the globe is also called Global positioning satellites.

On any given position 4 to 31 satellites can be linked by the clock depending on the position on the globe. The complete coverage, means whole globe that satellites offer makes the system the most reliable in modern world. However, due to the nature of the Earth's curvature has zero effect on reception whether it is day or night. The global positioning system involves various receivers from all different types of industries. National security, agriculture, space, surveying and mapping are all examples of end users.

The receiver in clock receives time data from the satellites' atomic clocks. It compares the time it takes for the signal to go from the satellite to the receiver, and calculates distance based on that very accurate and specific time.

Ionosphere interference: the signal from the satellites actually slows down as it passes through the Earth's atmosphere. Satellite technology accounts for this error by taking an average time, which means the error still exists but is limited.

- Clock error: The clock on the Satellite receiver might not be as accurate as the atomic clock on the satellite, creating a very slight accuracy problem in 1/1000th part of a second. But our Slave unit shows **+ - 5 seconds** difference with Master unit.
- Position error: Satellite signals can bounce off of buildings, terrain, and even electrical interference can occur. Satellites signals are only available when the receiver can "see" the satellite, meaning the data will be missing or inaccurate among tall buildings, dense terrain and underground.

First time setup

Master or Basic unit one time quick setup

- Check for the flashing satellite search LED light .



- Choose a location of unit in a room as close as possible near the open sky windows and wait for 20 to 30 min.
- If flashing light does not go off keep more closer to the windows
- The best place to keep the clock where flashing light stay off.
- After two hours clock will be set itself automatically. (*Recommended*)

OR (Manually)

Initially after 20-30 minutes when flashing light goes off try to keep pressing update or reset buttons at back for two seconds one at a time or re-plug instantly and repeat the same line from beginning.

Slave unit one time quick setup

- Always plug after the Master unit.
- Keep the unit within 100 ft. of Master unit. Do not bring the unit within 10 feet.
- Press the update button at back of Master unit only if Master unit is already set.

OR (Manually)

- Leave the unit for few hours, time will be updated automatically. (*Recommended*)

Warranty

New Digital provides 45 days limited warranty on this product against manufacturing defects in materials and workmanship.

This limited warranty begins on the original date on receipt of purchase, is valid only on products purchased and used in Canada and only to the original purchaser of this product. To receive warranty service, the purchaser must contact New Digital for problem.

Understanding service procedures.

Warranty service can only be performed by a New Digital authorized service center. The original dated bill of sale must be presented upon service request as proof of purchase to New Digital authorized service center.

New Digital will repair or replace this product, at our option and at no charge as a requirement herein, with new or reconditioned parts or products if found to be defective during the limited warranty period specified above. All replaced parts and products become the property of New Digital and must be returned to New Digital. Replacement parts and products assume the remaining original warranty, or days left,

If necessary repairs are not covered by this warranty, or if a product is examined which is not in need of repair, you will be charged for the repairs or examination. The owner must pay any shipping charges incurred in getting your product to a New Digital authorized service center. New Digital will not pay any shipping charges whenever any warranty services are required.

Warranty covers all defects in material and workmanship with the following specified exceptions:

- (1) damage caused by accident, unreasonable use or neglect (including the lack of reasonable and necessary maintenance);
- (2) damage occurring during shipment (claims must be presented to the carrier);
- (3) damage to, or deterioration of, any accessory or decorative surface;
- (4) damage resulting in failure to work properly.
- (5) damage by following the time which is in error or product not properly working.

Under no circumstances, including negligence, shall New Digital be liable for any direct, incidental, special, indirect or consequential damages arising out of or relating to these terms. Some jurisdictions do not allow the limitation of incidental or consequential damages so this limitation may not apply to you. In no event shall New Digital's total liability to you for all damages exceed the amount of fifty dollars (\$50.00).

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