



TimeView® 312 Wireless Analog Clock

Model TV312V, Model TV312U, Model TV312G



Wireless analog clock synchronized from a NetClock® for Legally Traceable Time®.

- **Perfect for Time and Attendance Systems, General Displays, and Alarms**
- **Built-in Radio Receiver with Antenna**
- **Step Second Hand**
- **Accurate to 250 Milliseconds Relative to UTC**
- **Optional Event Alert Features**
- **Self-Adjusting After Power Interruption**
- **One-Year Warranty**

The TimeView® analog clock is an easy, affordable means of providing system-wide, synchronized time using a wireless solution. The Spectracom wireless clock system delivers coordinated system time to all wall displays *without hardwiring*. A wired model is also available.

The analog clock face is ideal for airports, hospitals, and other applications in which a traditional 12-hour, round clock is desired. The Spectracom analog clock combines the accuracy of a digital clock with the traditional look of an analog clock.

A typical system includes the Spectracom NetClock®, a TimeBurst™ module, and TimeView wireless clocks. Unlike other systems that require multiple transmitters and antennas in close proximity to the displays, Spectracom solutions use the existing conventional (non-trunked) VHF FM radio system (Model TV312V), UHF FM commercial radio system (Model TV312U), UHF FM government-band radio system (Model TV312G), or a pager system with audio input (depending on your requirements) to transmit accurate, synchronized time from the central communications system to any site in the operation. The TimeBurst receives time from the NetClock through an RS-485 port and connects to the radio transmitter. A user-defined schedule automatically keys the transmitter and sends a coded time-of-day digital burst.

All TimeView 312 analog clock models have internal radio receivers and built-in antennas. Each clock decodes the TimeBurst transmission and sets its internal clock to within 250 milliseconds of the NetClock's time.

The optional Event Alert features provide visible and audible alert systems. Commands are executed using the TimeBurst Model 8185, Option 01 for Event Alert.

Spectracom solutions provide Legally Traceable Time® to synchronize your critical operations. Legally traceable time stamps provide necessary evidence and validation of events to reduce liability risks.



TimeView® 312 Wireless Analog Clock

PERFORMANCE

TIMING ACCURACY:

+/- 250 milliseconds

RF RECEIVER:

- FM receiver; supports standard and narrow-band FM voice channels
- 6.25 KHz channel spacing
- 2.5 or 5 KHz FM deviation
- Operates on 25 or 12.5 KHz channels
- VHF: 150-174 MHz (programmable)
- UHF (commercial band): 440-470 MHz (programmable)
- UHF (government band): 406-420 MHz (programmable)

SENSITIVITY

-107 dBm (1 μ V) typical at receiver RF input

FRONT PANEL

DISPLAY:

- 12" diameter clock face
- Arabic numerals
- Step second hand
- Black hour and minute hands
- Quiet operation

ORANGE LED INDICATOR:

- Off when in sync
- On continuously when out of sync
- Flashes once per second during self-adjustments
- On for one second when time data is received
- Flashes for 1/8 second at top of minute (:59-:00)
- Flashes twice for 1/8 second at top of hour

TIME TO SYNCHRONIZE HANDS

- Self-adjusting after power interruption
- Average case (6 hour error): 31 minutes
- Daylight Saving Time (spring forward one hour): 5 minutes
- Daylight Saving Time (fall back one hour): 55 minutes

REAR PANEL

CONTROLS:

Test button to display RF signal strength. RS-232 setup port for other parameters, such as time, frequency, and calibration of analog display. Settings retained in non-volatile memory.

OUTPUT PORTS:

- Two RS-485 output three-position terminal blocks
- Once per-second serial time code (format 0), 9600 baud
- Format 5 output included for Event Alert options
- Capable of driving wired wall clocks (TV210W/TV400W/TV312W), TimeTaps® (8179T)
- Accurate to +/- 75 msec (updated once per hour)

POWER:

100-250 VAC, 47-63 Hz to 12 VDC @ 9.6 watts max. from external UL/CSA approved power supply. Re-order number: PS03-0T0J-WM01. Barrel-type power connector; 5.5 mm OD, 2.5 mm ID, female, center positive.

BATTERY BACK-UP:

10-yr storage/operating life lithium battery maintains internal time during power interruption.

PHYSICAL & ENVIRONMENTAL

SIZE/WEIGHT:

- 14" (356 mm) diameter housing
- 11.75" (298 mm) dial imprint area
- 2.8" (71 mm) depth
- 2 lbs (0.9 kg)

ENVIRONMENTAL:

Operating Range: 32° F to 140° F (0° C to 60° C)

Storage Range: -40° F to 185° F (-40° C to 85° C)

Relative Humidity: 10-95%, non-condensing

AGENCY APPROVALS:

UL/CSA (power supply)

FCC Part 15 Class B

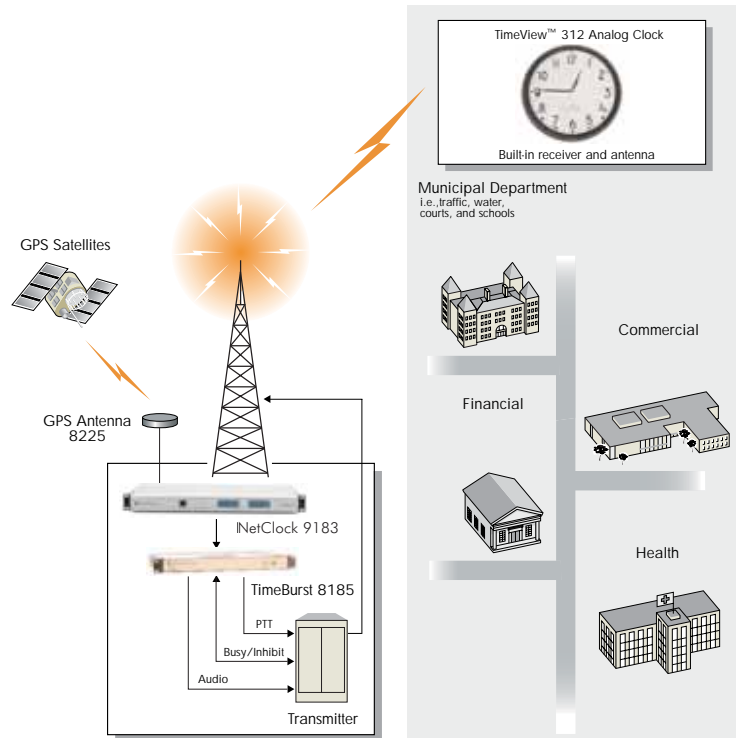
WARRANTY

ONE YEAR LIMITED WARRANTY

ORDERING INFORMATION

1. **TimeView® Display Clock**
TimeView 312 Display Clock – Model TV312V
TimeView 312 Display Clock – Model TV312U
TimeView 312 Display Clock – Model TV312G
2. **Option 01: Event Alert system** – top lights (LEDs) and internal buzzer
3. **Option 02: Event Alert system** – bottom lights (LEDs) and internal buzzer
4. **Option 03: Event Alert system** – top and bottom lights (LEDs) and internal buzzer

TIMEVIEW 312 DISPLAY BLOCK DIAGRAM



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For more information, please contact Spectracom.

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