



# TimeView<sup>®</sup> 312 UHF Analog Clock

Model TV312G



*Shown with optional Event Alert System*

- **For existing installations only**
- **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**
- **Three-year warranty**

TimeView<sup>®</sup> display clocks offer an easy way to provide system-wide, synchronized time. The Spectracom wireless clock system is available for existing installations only. A wired model is available for any installation.

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 installation includes the Spectracom NetClock<sup>®</sup>, a TimeBurst<sup>™</sup> module, and TimeView government-band UHF wireless clocks. Unlike other systems that require multiple transmitters and antennas in close proximity to the displays, Spectracom solutions use the UHF FM government-band radio system, 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<sup>®</sup> to synchronize your critical operations. Legally traceable time stamps provide necessary evidence and validation of events to reduce liability risks.

## Performance

### Timing Accuracy

± 250 milliseconds

### Radio 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 FM deviation
- UHF (government band): 406-420 MHz (programmable)

### Sensitivity

-107 dBm (1  $\mu$ V) typical at receiver RF input

## Front Panel

### Display

- 12" diameter clock face
- Arabic numerals
- Step second hand
- Black hour and minutes hand
- 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 minute
- Daylight Saving Time (spring forward one hour): 5 minutes
- Daylight Saving Time (fall back one hour): 55 minutes

## RF METER

LED indicator lights

## 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), TimeTap® (8179T)
- Accurate to ± 75 msec (updated once per hour)

## Power

10-year 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

Three-year limited warranty

<sup>1</sup>The warranty period may be dependent on country.

## Ordering Information

### TimeView® Analog Clock

TimeView 312 Analog Clock – Model TV 312G

### Option 02

Event Alert System: bottom lights (LEDs)

### Option 03

RF Meter and Event Alert System: top and bottom lights (LEDs) and internal buzzer

## Timeview 312 Display Block Diagram

