TIMETRAX Sync

SIMPLE: SMART™











Quick Start Guide



SIMPLE : SMART®

Don't Forget: Register your product online: www.pyramidtimesystems.com/support/product-registration

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PRODUCT OVERVIEW

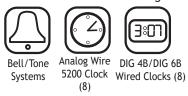
TimeTrax Sync™ Clock System is an engineered modular time system able to synchronize wired, wireless or Power over Ethernet (POE) devices using TimeTrax Sync™ software.

Wireless Synchronized Clock System

The Pyramid Wireless RF Transmitter uses 902-928MHz frequency-hopping technology to wirelessly transmit synchronization signals from designated time source to the following devices:



The Pyramid Wireless RF Transmitter controls BCD signals via auxiliary ports:



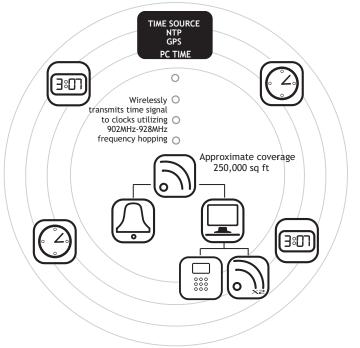
The wireless transmitters are able to pull time from the following sources:



A list of Internet NTP Primary Servers is available with TimeTrax Sync™ software and updated periodically by Pyramid Time Systems.

SYSTEM REQUIREMENTS		
Part#	SASDLCWDXX	
Operating	Windows 10 and higher	
PC	x64 Pentium IV 2.0 GHz or greater	
Memory	Minimum 4GB of RAM, recommended 8GB or greater	
Free Space	10GB or greater	
Internet	Chrome or Firefox	
CD-ROM	4x or faster	

TRANSMITTERS		
Part#	DESCRIPTION	
9T1W1	Shelf Transmitter with Software	
S9DWXSLAUB	Wall Transmitter with Software	
S9DSX0LAUB	Shelf Secondary Transmitter Without Software	
42337	Wall Secondary Transmitter Without Software	



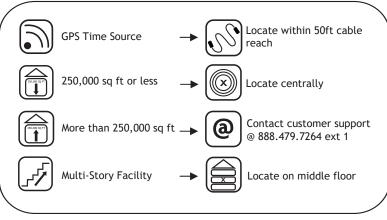
- O TT Sync Wireless RF Transmitter captures main time source vias GPS, NTP or PC TIME
- Transmitter utilizes frequency-hopping technology to broadcast precise time between 902MHz-928MHz (128 signaling channels) every 20 seconds), to an unlimited number of clocks.
- O TT Sync software synchronizes PoE clocks & enables Pyramid transmitters to be designated time source for TimeTrax™ Sync Clock & Tone Systems.
- O Wireless RF Secondary Transmitter(s) may be added for additional coverage

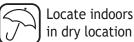


Dependent upon building Structure

WIRELESS RF TRANSMITTER INSTALLATION

1) Choose appropriate location to install 9T1W1 Wireless RF Transmitter.







Do not locate where people regularly come within 8in

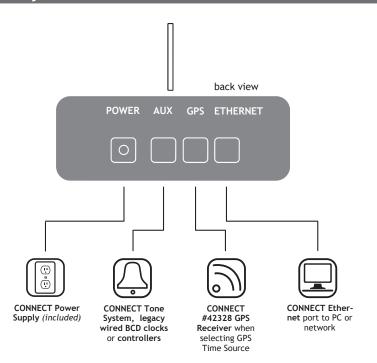
- Attach supplied antenna to top of 9T1WI Wireless RF Transmitter by rotating in clockwise direction.¹
- Place or mount transmitter so antenna is positioned vertically. This is required for optimum performance. Drill holes using template as a guide.
- 4 Connect Ethernet Port to computer or network. The transmitter will be confirgurable from anywhere on local network.
- [5] If GPS Receiver is to be used as time source, install and connect to GPS port of transmitter.
- 6 Connect power supply (supplied) to transmitter and to any standard wall outlet.
- TTSync software controls more than one Wireless RF Secondary Transmitter (42337 and/or S9DSXOLAUB). TTSync software will discover the device & assign global setting.



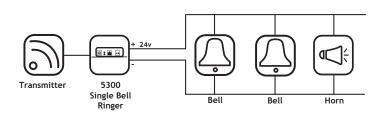
¹ Using anything other than included Power Supply or included Antenna in a horizontal orientation may be unsafe, cause improper operation, and violates FCC regulations.

4 INSTALLATION 888.479.7264

Pyramid Wireless RF Transmitter Ports



Horn/Bell/Tone System





Each Transmitter controls a different bell/tone system

SET UP SOFTWARE

(1) Contact Pyramid Time Systems for software access via download at:

Phone: 888.479.7264 Ext. 267 or Ext. 802 Email: WirelessSales@ptitime.com

- ② Install TimeTrax Sync™ Software into a networked computer or one that is able to be directly connected to transmitter via ethernet
- (3) Installation should automatically run once the software is downloaded and you open the file. The software will self-guide you through initial stages of installation.
- 4 After software is successfully installed, run program by double clicking Pyramid icon on your desktop. The Pyramid TimeTrax™ Sync Login Screen will appear. You are now ready to sign in.
- (5) "User Account Control", press "YES".
- 6 Enter the following User Name and Password (password is case sensitive):
 User Name: ADMIN Password: PTI
- (7) Click the LOGIN button. TimeTrax Sync™ security is independent of Windows Security, therefore user accounts need to be created for all users.

For security purposes, users of TimeTrax $Sync^{\infty}$ are required to Login to use software every time. In addition, it is advisable to change the password for ADMIN user account to prevent unauthorized use of the software to manipulate transmitter configuration settings.

(8) The software will automatically discover & list any Pyramid Ethernet device on network.

*Note

6

The firewall ports required are TCP Ports 3330, 3331, and 3333. The direction of the firewall access is both inbound and outbound which is needed for communication between clock to/from software.

SOFTWARE SET UP 888.479.7264

TIME ZONE; DAYLIGHT SAVINGS TIME; TIME SOURCE; REFRESH INTERVAL AT GLOBAL SETTINGS

NTP Time Source (MAX 3); Time Zone & Daylight Savings Time will automatically default to Eastern Standard Time. To change global settings, follow these steps:

- (1) Click on Edit Global Setting Tab. Press enter to confirm.
- 2 Click on arrow in Time Zone window to access drop down menu.
- Select Time Zone.
- Select Time Zone for automatic Daylight Savings Settings.
- (5) Click "Time Source": NTP/NTP SERVERS or PC TIME.
- 6 Click "Refresh Interval"; Hr, Min, Sec.
- (7) Click "Save & Close".

CUSTOM TIME SOURCE SETTING FOR INDIVIDUAL DEVICE

To change settings for individuals devices, follow these steps.

- Click "EDIT" on device from discovery list.
- Click on Custom Settings button.
- (3) Click on NTP / NTP SERVERS or
 - -"PC TIME" or
 - -"GPS" (only if installed for Transmitter)
- (4) Click "DEVICE NAME" set new one
- (5) Select "TIME ZONE" & "DAYLIGHT SAVINGS TIME"
- (6) Click "SAVE & CLOSE"

NAVIGATE TO BELL SCHEDULE

- ① Open an App click "CLOCK" (top right corner) click "BELL SCHEDULE" "ADD BELL SCHEDULE" "SAVE & CLOSE"
- Click "EDIT" "ADD BELL EVENT"
- After each event set click "SAVE & CLOSE"
- 4 To upload Bell Schedule to Transmitter(s) click "SAVE BELL SCHEDULE" "SELECT" (unit)
 "SAVE & CLOSE"
- (5) To go back to the list all clocks click "CLOCK" again then click "HARDWARE MANAGER"



Transmitter(s) must be "ACTIVE"

ETHERNET AUX GPS: SPECIFICATIONS

ETHERNET PORT		

Auto Speed 10/100TX	Any 10 or 100Mbs, Switch or PC	
Auto MDI/MDIX	No Crossover cable is needed	
FTHERNET:		

No IP address or DHCP server is required to discover trans-

Auto Discovery mitter, direct connect

DHCP IP Address, Subnet Mask, Gateway

List from TTSync Software; pull time from Internet or NTP Source

Intranet

RFC2030 compliant Time Server; serve time to Internet or **NTP Server** intranet

NOTE: ANY IP SETTINGS ABOVE CAN BE SET OR OVERRIDDEN BY TIMETRAX SYNC™ SOFTWARE. OPTIONAL AUXILIARY PORT (RJ45 COMPATIBLE FEMALE CONNECTOR):

-Sends BCD signals to TimeTrax™ analog & digital clocks BCD out/AUX

(wired)

-Sends BCD signals to Pyramid Tone Systems

OPTIONAL GPS PORT (RJ45 COMPATIBLE FEMALE CONNECTOR):

4800 Baud I/O to receive NMEA time and 1 second edge sync IEC RS232 Compatible

signals

GPS Signal Receiver Part #42328

TT SYNC WIRELESS RF TRANSMITTER: SPECIFICATIONS

RF Power Output		1 watt (30dBm)	
Frequency Range		902-928MHz Frequency Hopping Technology	
Channel Spa	cing	~200KHz	
Modulation		Raised Cosine 2FSK Modulation; 10KHz Maximum Deviation	
Data		Encrypted 2400 BPS	
Frequency Stability		10ppm	
Clock Time Update		Every 20 seconds	
NTP Time Update		6 Hr Default (can be set)	
GPS Time Update		Once per second	
Coverage		Approximately 250,000 sq ft	
Shelf	Size (WxHxD) Weight	6.5in x 2.5in x 6.5in (16.5cm x 6.5cm x 160.5cm) 2.2lbs (1.0kg)	
Wall	Size (WxHxD) Weight	5.5in x 5in x 1.75in (13.9cm x 12.7cm x 4.4cm) 1.6lbs (0.73kg)	
Antenna Length		5in (12.7cm)	
Required Voltage		Universal 100-240VAC 50/60Hz	
Weight		4.3lbs (1.95kg)	

SPECIFICATIONS 8 888, 479, 7264

ENVIRONMENTAL: INDOOR USE ONLY

Storage Temp -30 $^{\circ}$ C to 80 $^{\circ}$ C, 22 $^{\circ}$ F to 176 $^{\circ}$ F Operating Temp 0 $^{\circ}$ C to 70 $^{\circ}$, 32 $^{\circ}$ F to 158 $^{\circ}$ F Condensing 95 $^{\circ}$ RH non-condensing

SA	FETY		
0	Do not place transmitter in close proximity of life support systems or critical safety systems.		
0	To limit RF exposure, this transmitter must be installed to provide a separation distance of at least 8in (20cm) from all persons.		
0	Do not touch the antenna connector on top of enclosure when transmitter is in operation.		
\bigcirc	Use only provided power supply & antenna.		
0	Install transmitter indoors in dry area.		
EQ	UIPMENT PRECAUTIONS		
)	Antenna should be connected and oriented vertically before power is applied.		
	Using anything other than provided antenna is prohibited by FCC regulations.		
Э.	There are no serviceable or adjustable parts inside the case of transmitter.		
)	Opening transmitter case voids all warranties.		
	Any modifications to transmitter, antenna, or stated operating conditions violates FCC regulations and may be detrimental to health or safety.		

ANALOG CLOCKS

- Complete Transmitter installation and/or software set-up prior to clock installation
- Choose appropriate location to install clock(s).



Locate indoors in dry location unless using weather cover (see p.11)

- Wired clock(s) should be hardwired to standard electrical box by qualified electrician.
- (4) Mount clock(s) using any of the following options:
 - (1) Direct Wall Mount: Mount to surface using template (included) &
 - (2) #8 screws. Insert screws into keyhole slots in back of clock.
 - (2) Security Mount: Using security bracket & template (included), screw bracket directly to surface with (2) #8 screws. To hang clock, align holes on back of clock with security bracket hooks.
 - (3) Dual Clock Wall or Ceiling Mount: Use optional brackets.

CLOCK MOUNTING BRACKETS

42320	Dual Clock Wall Bracket Kit, 13in Analog, 4 x 6 Digital
42443	Dual Clock Ceiling Bracket Kit, Analog & Digital

(5) Clock(s) will automatically synchronize upon completion of transmitter and/or software set-up. Clock(s) must be within approximately 250,000 sq. ft. range of transmitter. Transmitter is necessary to update RF Clocks.



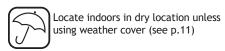


The battery operated clock(s) search for updated signal once per day at 2am and after battery installation.

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DIGITAL CLOCKS

- ① Complete Transmitter installation & software set-up prior to clock installation.
- Choose appropriate location to install clock(s).



- Wired clock(s) should be hardwired to standard electrical box by qualified electrician.
- (4) Mount clock(s) using any of the following options:
 - (1) Direct Wall Mount: Mount to surface using template (included) &
 - (2) #8 screws. Insert screws into keyhole slots in back of clock.
 - (2) Security Mount: Using security bracket & template (included), screw bracket directly to surface with (2) #8 screws. To hang clock, align holes on back of clock with security bracket hooks.
 - (3) Dual Clock Wall or Ceiling Mount: Use optional brackets

CLOCK MOUNTING BRACKETS

42247	Security Mounting Bracket Kit, Digital
42320	Dual Clock Wall Bracket Kit, 13in Analog, 4x6 Digital
42321	Dual Clock Wall Bracket Kit, 2.5x6 & 3x4 Digital
42443	Dual Clock Ceiling Bracket Kit, Analog & Digital

(5) Clock(s) will automatically synchronize upon completion of transmitter & software set-up. Clock(s) must be within approximately 250,000 sq ft range of transmitter. Transmitter is necessary to update RF Clocks.



DIG clocks search for updated signal every 20 seconds.
 The battery operated DIG clock(s) search for updated signal once per day at 2am and after battery installation.

(B) To set "Time Format" - Global or custom, click "Edit" then "Advanced" AM/PM (PM = Dot left top corner), Military (24HR)

ACCESSORIES

PΔRT#	ITEM DESCRIPTION
174(17)	ITEM DESCRIPTION
42337	Wall, Secondary Transmitter (without software)
S9DSX0LAUB	Shelf, Secondary Transmitter (without software)
42328	Receiver, GPS Signal
41269	BCD Extension Cable, 50ft
41314	BCD Extension Cable, 100ft
41313	BCD In-line Cable Coupler
43193-1	Wire Guard Kit, Chrome, 13in Analog Wire Guard Kit, Chrome, 17in Analog
43193-3	Wire Guard Kit, Chrome, 4X6 Digital Wire Guard Kit, Chrome, 4X4 Digital Wire Guard Kit, Chrome, 2.5X6 & 3X4 Digital
42320	Dual Clock Wall Bracket Kit, 13in Analog, 4x6 Digital
42321	Dual Clock Wall Bracket Kit, 2.5x6, 3x4 & 4x4 Digital
42443	Dual Clock Ceiling Bracket Kit, 13in Analog & all Digital
42247	Security Mounting Bracket 13in & all Digital
42496	Weather Cover, Digital
42533	Weather Cover, 13in Analog
42429-1	Replacement Key, Security Mount (analog)
42281	Replacement Key, Security Mount (digital)
41361	Bell, 6in 24 Volt DC
41392	Bell, 8in 24 Volt DC
41362	Horn, 24 Volt DC
5300	Bell Ringer, Single Zone, 24 Volt DC
41449	Bell Wire, 100ft Spool
41450	Bell Wire, 250ft Spool

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WARRANTY & TECHNICAL SUPPORT

3-YEAR LIMITED WARRANTY

Pyramid warranties its Synchronized Clock Systems to the original user against defective material or workmanship for a period of 3 years from date of purchase.

- 1 The manufacturer's responsibility under this Warranty is limited to repair or replacement of defective part or parts.
- 2 Pyramid reserves the right to determine whether parts failed because of defective material, workmanship, or other causes.
- (3) Failure caused by accident, alteration, misuse or improper packaging of returned unit is not covered by this Warranty.
- (4) Any repair to equipment other than by Pyramid voids the Warranty.
- (5) Users in territories other than USA, Canada, South America & Australia should contact the Dealer from whom the unit was purchased.
- The rights under this Warranty are limited to original user and may not be transferred to subsequent users.



TECHNICAL SUPPORT CONTACT US:

Should you need to speak live to one of our representatives, please call Toll-free (US/Canada): 888.479.7264 ext 802 during regular business hours: 8:30am—5:00pm EST, Monday-Friday.

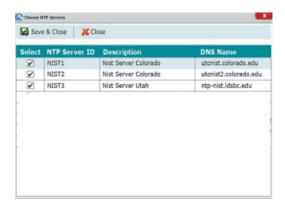
If Customer Service cannot troubleshoot your problem over the phone, we will replace your unit free of charge if it is within warranty period.

Please contact Customer Support at 888.479.7264 for details.

ACTIVATE YOUR 3 YEAR WARRANTY:

https://www.pyramidtimesystems.com/support/product-registration-synchronized-clocks

Pyramid™ TimeTrax Sync™ seamlessly synchronizes clocks and tone systems to promote productivity, reliability and efficiency in the workplace





pyramidtimesystems.com

- Time Selection 12 or 24 hour time format and multiple time zone selection capability.
- Automatic Adjustment Automatically adjusts for Daylight Savings Time & power outages.
- Scheduling Schedule bell/tone systems with the click of a mouse.

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Resources:

For more information, visit **pyramidtimesystems.com** for digital guide copies, support resources, and accessories.

*When printing off copies of user guides for templates, please open in Adobe Acrobat and follow the following print options:

Size: Actual (Measure template for accuracy before using when printing)

Booklet (If printing just the template page, make sure it is set to actual size and not shrink to fit)

Front & Back Print

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CONTACT US:

For more information, visit pyramidtimesystems.com or call our technical support team at 888.479.7264 during regular business hours: 8:30am-5pm EST, Monday-Friday.

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