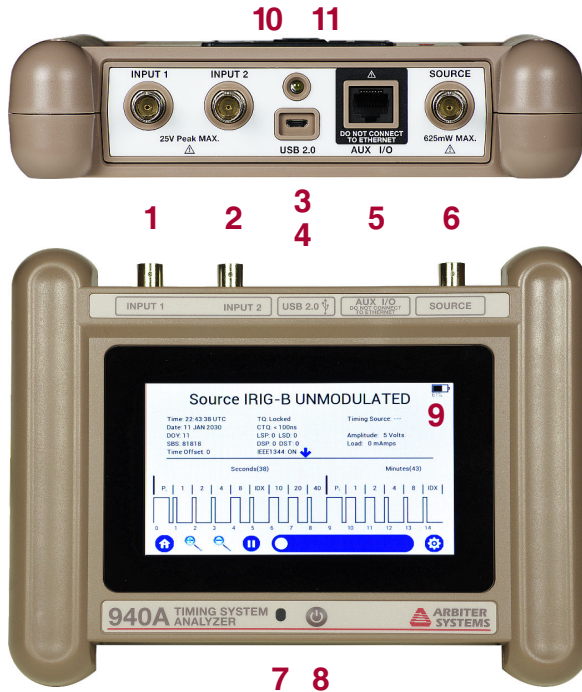


# Model 940A Timing System Analyzer



- 1, 2 Inputs - IRIG-B (modulated, unmodulated, modified manchester), DCF77 or 1PPS signals (25 Vpk maximum).
- 3 LED Flashlight - Adjustable LED light.
- 4 USB 2.0 Port - Charging and programming port, **check website for latest firmware updates.**
- 5 Auxilliary I/O port - Accessory port - **Do Not Connect to an Ethernet port.** See manual for accessories.
- 6 Source Output - Adjustable source for IRIG-B (modulated, unmodulated), DCF77 and 1PPS.
- 7 Ambient Light Sensor - Auto-adjusts backlight intensity.
- 8 On/Off Switch - Turns power on/off; quick touch while off and charging displays battery status.
- 9 Capacitive Touch Screen - Press the appropriate button to enter the corresponding configuration or display menus.
- 10 Bail - Nested bail for desktop viewing (rear panel).
- 11 Speaker - Adjustable built in speaker (rear panel).



Returns to main menu



Configuration menu for current screen selections



Returns to previous menu



Zoom in/out



Timing signal pause/resume



Waveform scroll bar

## Input and Source Display

Full Screen - Large text for easy viewing

Split Screen -Text on top and graphical view on bottom  
 magnifying glass (+)/(-) - waveform zoom in / zoom out  
 pause/play - pauses/resumes graphic data for easy reading  
 scroll bar - scrolls viewable section of waveform graphic

# Model 940A Timing System Analyzer

## Input Configuration

IRIG-B Unmodulated  
IRIG-B Modulated  
IRIG-B Manchester  
1PPS  
DCF77  
Load (50 Ohm, 100 Ohm, Off)

## Source Configuration

**Signal Selection** - IRIG-B unmodulated, IRIG-B modulated, 1PPS or DCF77

**Time Source** - Input 1, Input 2 or Custom.

Duplicate Input passes IRIG-B input signals without adjustments

## Time Source Adjustments

UTC or Local time  
Daylight Saving Time  
Leap Second  
IEEE 1344/C37.118

## System Configuration

Flashlight  
Speaker Volume  
Back Light - Auto or Manual  
Real Time Clock (RTC) Date/Time  
RTC Synchronization Source

## Power

5 Vdc via USB port. Minimum 1 amp charger with 24 AWG 5-pin micro-USB cable recommended

4 - Internal Lithium Ion Batteries\* charged via USB port

Charging: 5 Vdc @ 1 A (maximum)

Temperature Operating: -10 °C to +50 °C

Charging: 0 °C to +45 °C

Nonoperating: -40 °C to +75 °C

\*Keep batteries charged to prolong battery life

Battery Status:



Normal (not charging)



Low Voltage



Charging

## Package Contents

Model 940A  
Soft Carrying Case  
USB Charger  
USB to micro-USB Cable  
BNC Patch Cable (M-M) 2.5 m (8 ft)  
BNC T-Connector (F-M-F)  
BNC (Female) Breakout to Screw Terminal  
BNC (Female) Breakout to 100 mm Wires  
2-pole, 5 mm, Connector