

User Manual

Accurately finds cable length, impediments in the cable and conditions at the end of every wire in your data, power, or communications/video system up to 3,000 ft.

Memory

Holds up to two different NVP values for multiple cable tests.

Calibration

Ability to calculate NVP for any known cable length.

Test

Tests length, opens or shorts present on the cable, up to 3,000 ft.

Tone Generation

Produces four different tones for locating cables.





See video demonstrations at: www.platinumtools.com



Fault Finding/Cable Length Measurement TDR

User Manual

Table of Contents

About this Manual	3
Symbols and Icons	3
Terms and Descriptions	4
Safety Information	
Equipment and Accessories	
Design Features	
Snap Shot™ Description	8
F-Connector	
LCD Display Screen	9
Keypad	13
Operations	15
Turning the Unit On/Off	15
Automatic Power Down	15
Cable Testing General Guidelines	16
Using Memory Storage	16
Recalling Stored NVP Values	17
Adjusting NVP Values	
Using Calibration Mode	19
Using Test Mode	22
Using Loop Testing	24
Using Tone Mode	25
Maintenance	26
Battery Replacement	26
Cleaning	26
Storage	26
Customer Service	27
Contacting Platinum Tools	27
Additional Accessories	27
Warranty Information	28
Product Registration	28
Disposal	28
Returns	28
Specifications	29
Appendix A	30

ABOUT THIS MANUAL

The Snap Shot™ is a self contained, hand-held, battery powered test unit operated by contractors, repair technicians, and other authorized users. This device is used to accurately test voice, data, and video cables. The Snap Shot™ determines cable length, identifies cable faults, and quickly discovers the Nominal Velocity of Propagation (NVP) for a cable using Spread Spectrum Time Domain Reflectometry (SSTDR).

Symbols & Icons

The following symbols are used throughout the manual or in the display screen of the Snap Shot™ to help you avoid personal injury and potential damage to the test equipment (Table 1).

Table 1. Symbols and Icons

Symbol	Definition
<u></u>	Warning: Potential for personal injury Caution: Potential for damage or destruction to equipment.
Voltage!	Voltage detection symbol. Appears when the voltage on the cable is unsafe and exceeds 60 volts peak AC or DC.
ϵ	Conformité Européenne. Conforms with European Economic Area directives.
X	Disposal information.

Terms and Descriptions

Table 2 defines the terms used throughout the document and provides information to assist you with proper operation and understanding of the unit and its functions.

Table 2. Terms and Descriptions

Terms	Description and Uses	
Nominal Velocity of Propagation (NVP)	Also known as the Velocity of Propagation (VOP), NVP is the speed of an electrical signal traveling through a cable, measured as a percentage of the speed of light.	
Safety Extra Low Voltage (SELV)	 A rating determined by the International Electrotechnical Commission that defines safe voltage standards when using electronic devices. SELV is 60 volts DC or Peak AC (45 volts RMS). 	
F-Connector	Connector for a coaxial cable.	
Spread Spectrum Time Domain Reflectometry (SSTDR)	 Spread spectrum is the technological foundation of cell phone communications and is used to transmit a small, but nevertheless recognizable, signal in a high noise environment. By combining spread spectrum with TDR technology, SSTDR allows for a length test on cables without interference from voltage. 	

Safety Information

To ensure safe operation of the Snap Shot™, follow the instructions carefully and observe the warning and caution messages listed in Table 3. Failure to observe warnings can result in severe injury or death and can damage the unit.

Table 3. Safety Information

Notification The Snap Shot™ is designed for use on cabling systems with or without voltage. The Voltage! Icon turns on when the voltage exceeds Safety Extra Low Voltage (SELV) rating of 60 volts peak AC or DC. Internal components are protected up to 400 volts peak AC or DC. Operating the Snap Shot™ when a voltage source exceeds 60 volts peak AC or DC may pose a safety hazard for the user. Do not place equipment and its accessories in the trash. Items must be properly disposed of in accordance with local regulations.



It is not recommended to use the Snap Shot[™] when the Voltage! Icon is present.

EQUIPMENT AND ACCESSORIES

The following list of equipment and accessories are used with the Snap Shot™ in order to properly test cables. The items illustrated and described in Table 4 are provided with your purchase of the Snap Shot™. Refer to the *Additional Accessories* section for a listing of additional products that can help make testing easier.

Table 4. Snap Shot™ Equipment and Accessories

Accessory	Product Number	Description
	TAD001	F-connector Coupler, High Performance F81
	18303	Adapter, F-Jack to BNC Jack
	TCA001	Cable Assembly, Insulated Push- On F to RJ45 Plug
	TCA002	Cable Assembly, Insulated BNC to Alligator Clips
	TCA003	Cable Assembly, Insulated Push- On F-Connector to Alligator Clips

DESIGN FEATURES

- 1% length accuracy
- Ability to measure cables with voltage
- Stores up to two NVP values
- Displays length reading in feet or meters
- Easy to Operate
- Extra large seven-segment, back lit LCD screen with icons that clearly display test results
- Tests any copper cable including data, voice, video, lamp wire, and romex cables
- Discovers NVP value for cables with known length
- Automatic pre-test voltage checks
- Identifies cable faults
- Tone generator with selectable tone cadence to easily trace cables
- Conserves power and supports long battery life with Auto-off feature and battery life indicator

Snap Shot™ Description

The Snap Shot™, illustrated in Figure 1, has 3 main parts: the F-Connector, LCD display screen, and the keypad.



Figure 1. Snap Shot™

F-Connector

One F-Connector is located at the top of the Snap Shot $^{\text{TM}}$. The connector enables you to test and measure single cables.

Note: Additional accessories are provided with your purchase of the Snap Shot™ for use with twisted pair, coaxial, and two-wire cables. Refer to the Cable Testing General Guidelines section of the manual for more details.

LCD Display Screen

The Snap Shot[™] has a high contrast LCD display screen, shown in Figure 2 below. The LCD display screen shows the following: modes and related icons, cable length, memory storage and related icons, NVP value, cable faults, error message, voltage detection warning, and battery life indicator.

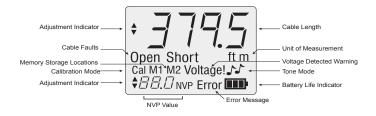


Figure 2. LCD Display Screen

Test Mode

When the TEST button is pressed, the measured cable length (in units of feet or meters) appears at the top of the LCD display screen. The following values and icons display in the screen when a single test is run:

- **Storage Location** The selected storage location (M1 or M2) appears in the lower left corner of the display screen above the NVP value.
- NVP Value The value saved in the selected storage location appears in the lower left corner of the screen. This value is used to calculate the displayed cable length.

Memory Storage

When the MEM button is selected, a series of values and icons appear in the LCD display screen. See Table 5 for a description of the display screen updates when Memory Storage is in use.

Table 5. Memory Storage Icons and Values

Icons and Values	Description
Memory Storage Locations	The unit has two memory storage locations: M1 and M2. The selected storage location appears above the NVP value in the lower left corner of the LCD display screen.
NVP Value	The NVP value for the selected storage location appears next to the "NVP" icon in the lower left corner of the LCD display screen.
Adjustment Indicator	The adjustment indicator icon demonstrates that the NVP value can be adjusted. The icon, displayed as two Up/Down arrows, appears to the left of the NVP value.
Cable Length	The cable length, displayed in feet or meters, appears in the upper right corner of the display screen. When a cable is not attached to the Snap Shot™ the length will read "0".

Note: Refer to the **Using Memory Storage** section to learn how to store multiple NVP values for testing purposes.

Tone Mode

When the TONE button is selected, two musical notes blink in the lower right corner of the LCD display screen to demonstrate the unit is set to tone tracing. The following icons appear in the display screen when Tone Mode is in use:

- Cadence There are four cadence options: HI, LO, HL1, and HL2. The last selected cadence appears in the top row of the display screen.
- Adjustment Indicator Two arrows appear to the left of the selected cadence to indicate that cadence can be adjusted.

Note: A tone probe is used for the tone tracing functionality of the Snap Shot™. This item is sold separately. Refer to the Additional Accessories Section for a listing of available products.

Calibration Mode

When the CAL button is pressed, the "Cal" icon appears in the lower left corner of the display screen. The icons and values described in Table 6 appear in the LCD display screen when the unit is set to Calibration Mode.

Table 6. Calibration Mode Icons and Values

Icons and Values	Description
Cable Length	The last entered cable length appears (in units of feet or meters) in the top row of the LCD display screen.
Adjustment Indicator	The adjustment indicator icon, denoted by two Up/Down arrows, indicates that cable length can be adjusted while in Calibration Mode. The icon displays to the left of the last inputted cable length.
NVP Icon	The "NVP" icon appears in the bottom row of the LCD display screen. Three dash lines "" appear to the left of the "NVP" icon demonstrating that the NVP has not been calculated for the entered cable length.

Note: Refer to the **Using Calibration Mode** section to learn how to calculate the NVP of a cable.

Cable Faults

The device checks for two cable faults during testing: Open and Short. The cable faults, explained in Table 7 below, appear in the middle of the LCD display screen.

Table 7. Cable Faults

Cable Faults	Description	
Open	An "Open" error indicates a wire connection within the cable is not continuous throughout the length of the cable.	
Short	The "Short" icon appears when the two wires within a cable are electrically connected. This is also known as a short circuit.	

Battery Life Indicator ()

The battery life icon appears in the lower right corner of the LCD display screen to demonstrate the approximate remaining battery life. A new battery shows three bars. The number of bars decreases as the battery is nearing depletion. The icon begins to flash at 4 volts when the battery needs to be replaced. Results may be unreliable at this point.

Note: The Snap Shot™ will turn off if the power supply goes out of regulation from a low battery condition.

Voltage Detected Warning (Voltage!)

The "Voltage!" icon appears in the lower right corner of the display screen when the voltage detected on a cable exceeds SELV rating of 60 volts peak AC or DC. If the icon appears, the Snap Shot™ should be disconnected immediately from the source of the voltage.

Note: The Snap Shot[™] continually checks for the presence of voltage on a connected cable.

Error

The "Error" message appears in the lower right corner of the LCD display screen under the following circumstances:

- Calibration results in an invalid NVP value outside of the 20 to 99.9 NVP value range.
- SSTDR reflection was not detected due to a properly terminated cable or excess signal loss.

Note: Refer to the Using Calibration Mode and Using Test Mode sections for trouble-shooting the "Error" message when using either of these modes

Keypad

The Snap Shot™ is equipped with seven buttons, illustrated in Figure 3. Four buttons, appearing in the top two rows of the keypad, are used with Test and Tone Modes. Two Up/Down buttons are used to edit. One button is used to power the unit On/Off. The button functions are explained in Table 8.

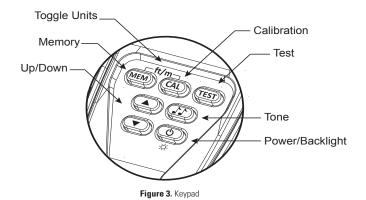


	Table 6. Reypau
Button	Function
Memory (MEM)	The Memory button is used to store up to two NVP values for testing purposes. Short presses of the Memory button toggles between the two memory storage locations: M1 and M2. A long press (two seconds) of the button stores an NVP value in the selected storage location. A long press (two seconds) of the Memory and Calibration buttons simultaneously toggles between units of measurement (feet and meters).
CAL	The Calibration button allows you to discover the NVP value based on an entered cable length. Short presses of the Calibration button adjust cable length in increments of 50 ft or 20 m within the range of 50 ft to 1,000 ft or 20 m to 300 m. A long press (two seconds) of the Calibration button aborts Calibration mode and enters Test Mode. A long press (two seconds) of the Memory and Calibration buttons simultaneously toggles between units of measurement (feet and meters).
Test (TEST)	 The Test button initiates length testing on the connected cable. A short press runs a single test on demand. A long press (two seconds) of the button starts continuous testing. Pressing any button (except Power) stops loop testing (or the unit turns off after 3 minutes).
Tone	The Tone button allows you to trace cables by sound. A short press of the button transmits an audio tone from the unit through the connected cable. Subsequent presses of the Tone button toggles between Test and Tone Modes.
Up/Down	 In Tone Mode, the Up/Down buttons allow you to select a cadence (HI, LO, HL1, and HL2). In Calibration Mode, the buttons are used to adjust the measured cable length within the following length ranges: 10 m - 300 m or 25 ft to 1,000 ft. In Memory Storage and Test Mode, the Up/Down buttons enable you to adjust the NVP value for the selected memory storage location (M1 or M2).
Power	 A short press of the Power button turns the Snap Shot™ On. Subsequent presses of the button toggle the backlight On and Off. A long press (two seconds) of the Power button turns the unit off.

Operations

To ensure safe operation of the Snap Shot™, follow the instructions carefully and pay attention to the warning and caution symbols. Failure to observe warnings can result in severe injury or death and can damage the unit

Turning the Unit On/Off

Turn Unit On

- Press the POWER button to turn the unit ON.
- The Snap Shot™ immediately runs a length test when powered ON.

Turn Unit Off

 Press and hold down the POWER button for two seconds to turn the unit OFF. The display screen goes blank.

Automatic Power Down

The Snap Shot™ automatically turns off after a period of inactivity to conserve battery power. The automatic power down feature is dependent on which mode is in use and if voltage is detected on the cable being tested (see Table 9).

Table 9. Automatic Power Down.

Mode	Time
Test Mode	1 minute
Loop Testing	3 minutes
Tone Mode	15 minutes
Calibration Mode	1 minute

Cable Testing General Guidelines

The Snap Shot[™] determines the length of a variety of cable types, calculates the NVP value of a cable with a known length, and identifies cables by sound.

Important Points to Note

The Accessories provided with the Snap Shot™ must be used to properly connect cables.

- For coaxial cables, affix the F-Connector Coupler to the F-Connector on the top of the unit. Then connect the end of the cable to be tested to the other side of the F-Connector Coupler.
- When testing a cable with an RJ45 jack, connect the F-Connector Coupler to the F-Connector on the top of the unit. Then attach the Insulated Push-On F to RJ45 Plug.
- To run tests using the Alligator Clips, first affix the F-Connector Coupler (or F-Jack to BNC Jack) to the top of unit. Then attach the proper Cable Assembly to Alligator Clip accessory.

Important Safety Points



The Voltage! Icon appears when the voltage surpasses SELV rating of 60 volts peak AC or DC. It is not recommended to operate the Snap Shot™ on cable systems exceeding a voltage value of 60 volts.



If the Voltage! icon appears, the Snap Shot™ should be disconnected immediately from the source of the voltage.



Internal components of the Snap ShotTM are protected to 400 volts peak AC or DC. Connecting the unit to cabling systems with voltage above 400 volts peak AC or DC may damage the test unit and pose a safety hazard for the user.

Using Memory Storage

The Snap Shot™ features two memory storage locations (M1 and M2) allowing you to save two NVP values for cable testing.

Note: For the first use of the Memory Storage feature, the default NVP values for both M1 and M2 storage locations is 84.6 NVP. This is a common value for testing RG6 coaxial cables.

Recalling Stored NVP Values

- Connect one end of the cable to the Snap Shot™. Use connection accessories according to the type of cable you are testing.
- 2. Press the POWER button to turn the unit ON.
- Press the MEM button to recall the stored NVP Value. The LCD display screen, illustrated in Figure 4 below, shows the following:
 - The current storage location (M1 or M2) and the NVP value last saved in the selected location.
 - The adjustment indicator icon appears in the screen indicating NVP is editable.
 - The cable length calculated during the last test.

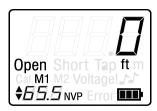


Figure 4. LCD Display Screen in Memory Storage

Note: Single presses of the MEM button toggles between the two memory storage locations.

Cable length does not update automatically when toggling between the two memory storage locations. To achieve an accurate length measurement when selecting a different stored NVP value, a test must be run. Refer to the **Using Test Mode** section for instructions on measuring cable length.

Adjusting NVP Values

- 1. Power the unit ON.
- Select the memory storage location you would like to adjust (M1 or M2) through short presses of the MEM button.
- Press the UP and DOWN buttons to increment or decrement the NVP value. Press and hold the UP or DOWN buttons to quickly increase or decrease the NVP value.

Note: If the NVP value is unknown, you can determine the NVP value for the cable you are testing in the following ways:

- View the listing of common NVPs by cable type on the backside of the Snap Shot™.
- Refer to Appendix A for an extended listing of NVP values.
- Use Calibration Mode to set the NVP value if the length of the cable is known. Refer to the Using Calibration Mode section for instructions on calculating NVP.
- 4. Press and hold down the MEM button for two seconds to save the adjusted NVP value. The adjusted NVP value will be stored in the unit's memory for the specified storage location.

Note: A short press of the MEM button or selection of any other buttons during editing will discard the adjusted value.

If the unit is turned OFF prior to saving the edited NVP value, the Snap Shot™ will recall the adjusted NVP value. However, the adjusted value will not be saved in either of the two storage locations.

Using Calibration Mode

Use Calibration Mode to calculate the NVP value for a known cable length between 25 ft - 1,000 ft or between 10 m - 300 m. The determined NVP value can be stored in the unit's memory allowing you to easily test cables without recalibrating the NVP every test.

Note: Calibration Mode is used with unterminated cables only

For the first use of Calibration Mode, the unit defaults to a cable length of 50 ft, when the unit is set to feet, or 20 m when the Snap Shot™ is set to meters.



When Calibration Mode is in use, the connected cable is tested for the presence of voltage. If detected, a dynamic voltage warning displays until the unit is disconnected from the voltage source.

 Connect a cable to the Snap Shot™. Use connection accessories according to the type of cable you are testing.

Note: The Snap Shot™ cannot be calibrated without a cable attached to the unit.

- Press the POWER button to turn the unit ON.
- 3. Press the CAL button. The LCD display screen, illustrated in Figure 5 below, shows the following upon entering Calibration Mode:
 - The last entered cable length, in units of feet or meters.
 - The adjustment indicator icon appears in the screen indicating the cable length is editable.
 - The "Cal" icon appears in the lower left corner.
 - Three dashes "- -" are displayed to demonstrate that the NVP value has yet to be calculated.



Figure 5. LCD Display Screen in Calibration Mode

- 4. Verify the Snap Shot™ is set to your desired unit of measurement (feet or meters). To change the unit of measurement, press and hold down the MEM and CAL buttons simultaneously for two seconds. The unit of measurement will adjust in the LCD display screen.
- 5. Enter the length of the attached cable. See Table 10 for a description of how to adjust cable length using the Up/Down and Calibration buttons.

Table 10. Adjusting Cable Length.

Cable Faults	Description
Up/Down	The Up/Down buttons allow you to adjust the cable length within the range of 10 m – 300 m or 25 ft to 1000 ft. Press the UP and DOWN buttons to increment or decrement the length. Press and hold the UP or DOWN button to quickly increase or decrease the cable length.
Calibration	Press the CAL button to increase cable length in 50 ft or 20 m increments according to the unit of measurement selected (feet or meters).

Note: Once the maximum length (1,000 ft or 300 m) is reached through use of the CAL button, a subsequent press of the button adjusts the cable length to the default cable length (50 ft or 20 m).

To abort Calibration Mode and retain your previous inputted cable length, press and hold down the CAL button. The unit defaults to Test Mode

- 6. Press the TEST mode button. The following updates occur in the LCD display screen (see Figure 6):
 - The three dashes in the lower left corner disappear. The calculated NVP value for the inputted cable length appears in place of the three dashes.
 - The cable length displays in the upper right corner.
 - The Memory Storage location last selected (M1 or M2) appears above the NVP value.
 - The adjustment indicator icon appears in the lower left corner.
 - The "Open" icon displays as Calibration Mode is used with unterminated cables only.

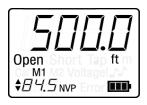


Figure 6. Calculated NVP Value

Note: The valid NVP value range is 20 to 99.9. If you achieve an NVP value that's out of this range, the following occurs:

- The "Error" message blinks at the bottom of the LCD display screen (see Figure 7).
- The unit recalls the last calculated NVP value.
- The Snap Shot[™] exits Calibration Mode and enters Test Mode.
- The last cable result displays at the top of the screen.

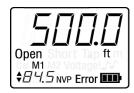


Figure 7. Error Message in Calibration Mode

Interpret display results and trouble-shoot potential cable faults (Open and Short).

Using Test Mode

Use Test Mode to calculate the length of unterminated cables. A termination with impedance closely matching the characteristic impedance of the cable can produce inaccurate test results. One of the following error messages may appear in the LCD display screen:

- "Short" icon appears demonstrating the cable is terminated.
- "Error" message blinks to indicate that SSTDR reflection was not detected due to a properly terminated cable or excess signal loss.



/ When Test Mode is in use, the connected cable is tested for the presence of voltage. If detected, a dynamic voltage warning displays until the unit is disconnected from the voltage source.

1. Connect a cable to the Snap Shot™. Use connection accessories according to the type of cable you are testing.

Note: Connection to the cable should be as short as possible to minimize the impedance discontinuity at the cable attachment point. Otherwise, The Snap Shot™ may see a fault at the connection point.

- 2 Press the POWER button to turn the unit ON
- 3. Select the memory storage location (M1 or M2) with the desired NVP value for testing. The NVP value requires adjustment if neither storage location contains an NVP value matching the type of cable you are testing.

Note: Refer to the **Using Memory Storage** section for instructions on adjusting NVP values.

A listing of common NVPs by cable type is on the backside of the Snap Shot™. You may also refer to Appendix A for an extended list of NVP values.

4. Press the TEST button. The LCD display screen shows the following upon entering Test Mode (See Figure 8):

- The measured cable length in units of feet or meters.
- The storage location (M1 or M2) with its associated NVP value used to calculate the connected cable's length.
- The adjustment indicator icon appears in the lower left corner.
- The cable fault (Open or Short).

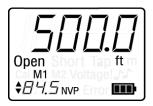


Figure 8. LCD Display Screen in Test Mode

Note: If the test is unable to determine a valid result, four dashes "----" appear in place of the measured cable length reading and the "Error" message flashes (see Figure 9). The following scenarios may result in an invalid result:

- The connected cable is terminated.
- Excess signal loss.

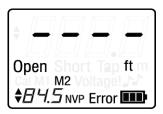


Figure 9. Error in Test Mode

Interpret display results and trouble-shoot potential cable fault (Open or Short).

Using Loop Testing

The Snap Shot™ can run a continuous test on a connected cable allowing you to accurately measure long cables susceptible to signal loss. Loop testing offers ease of use by enabling you to test multiple cables without repeatedly pressing the TEST button.

- Press the POWER button to turn the unit ON.
- Verify the unit is set to the desired unit of measurement (feet or meters). To change the unit of measurement, press and hold down the MEM and CAL buttons for two seconds.
- Select the memory storage location (M1 or M2) that contains the NVP value for the type of cable you are testing.

Note: Refer to the **Using Memory Storage** section for instructions on adjusting the NVP value.

- Press and hold down the TEST button for two seconds to run a continuous test. The following values and icons appear in the LCD display screen (see Figure 10):
 - The "LOOP" message flashes once in the upper right corner to demonstrate the unit is set to continuous testing.
 - The measured cable length replaces the "LOOP" icon and flashes to indicate test activity. The length flashes for the duration of a test.
 - The selected storage location (M1 or M2) and its respective NVP value appear in the lower left corner.
 - The adjustment indicator icon displays to the left of the NVP value.
 - The cable fault (Open or Short) displays.

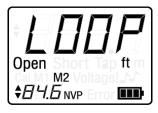


Figure 10. LCD Display Screen in Loop Testing

Note: Pressing any button, other than POWER, terminates the loop test. The unit turns off after three minutes of testing.

5. Interpret display results and trouble-shoot potential cable faults (Open and Short).

Using Tone Mode

Tone Mode is used to trace cables by sound. Selection of this mode emits a cadence from the unit through the connected cable. Cadence is detected by a tone probe.



When Tone Mode is in use, the connected cable is tested for the presence of voltage. If detected, a dynamic voltage warning displays until the unit is disconnected from the voltage source.

- Connect a cable to the Snap Shot™. Use connection accessories according to the type of cable you are testing.
- Press the POWER button to turn the unit ON.
- Press the TONE button. The LCD display screen updates with the following symbols and icons (see Figure 11):
 - Two musical notes blink in the lower right corner to indicate Tone Mode is in use.
 - The last selected cadence (HI, LO, HL1, and HL2) appears in the upper right corner.
 - The adjustment indicator appears to the left of the cadence indicating the cadence can be adjusted.



Figure 11. Tone Mode with HL1 Cadence

- To adjust the cadence, press the UP and DOWN buttons until your desired selection updates in the LCD display screen.
- 5. Use the tone probe to trace cables.

MAINTENANCE

Battery Replacement

- Remove the single screw on the battery door, located in the back of the Snap Shot™ towards the bottom of the unit, with a #1 Philips head screwdriver
- 2. Take off the battery door and remove old batteries.
- Replace with four AA Alkaline batteries. Slide batteries into the battery cartridge according to the diagram imprinted on the bottom of the battery compartment.
- 4. Return the battery door to the unit and tighten the screw to secure the battery door.



Do not over tighten the battery door. Doing so can damage the test unit.

Cleaning

Use a damp, clean cloth to clean the test unit.



Disconnect all cables from the Snap Shot™ prior to cleaning. Failing to do so can damage the unit and result in personal injury.

Do not use abrasive, harsh cleaners, or solvents to clean the Snap Shot $^{\text{TM}}$.

Storage

When the Snap Shot™ is not in use, store in a dry, protective case. The batteries should be removed if the unit is stored for a long period of time.

Do not expose the Snap ShotTM to high temperatures or humidity. When stored in temperatures exceeding the limits listed in the **Specifications** section, allow the Snap ShotTM to return to the normal, recommended operating conditions prior to use.

CUSTOMER SERVICE

Contacting Platinum Tools

For technical information and customer support, please visit www.platinumtools.com or send an email to info@platinumtools.com.

Contact Numbers: Phone: 805-384-2777

Fax: 805-749-5784

Address: 806 Calle Plano

Camarillo, CA 93012

Additional Accessories

The list of accessories below (see Table 11) will assist you with operating the Snap Shot™. These items are available for purchase through T3 Innovation.

Table 11. Additional Accessories

Accessory Product Number

4007 Hanging Pouch

Warranty Information

Activate your Warranty

Register your purchase to activate your warrranty and access support information and receive notifications of product updates. Go to the Platinum Tools website at www.platinumtools.com/warranty.

Platinum Tools guarantees that its products will be free of all defects in material and workmanship. This warranty extends for the period stated on the package from the date of manufacture or proof-of-purchase.

Products deemed defective under this warranty will be repaired or replaced at Platinum Tools's discretion. No further warranties either implied or expressed will apply, nor will responsibility for operation of this device be assumed by Platinum Tools

Disposal

WEE Compliant: Prior to disposal please contact Platinum Tools for proper disposal options.

Returns

Prior to returning any product to Platinum Tools, you must first request a Return Merchandise Authorization Number by contacting the Customer Service at 805 384 2777.

Note: Shipments will not be accepted without this number, which must be clearly marked on the shipping label.

- Prior to packing, include a copy of the sales receipt if available.
- Provide a description of the operational problem with the product(s) being returned. Include a contact name, phone number, and e-mail address.
- 3. Pack items securely to prevent damage during shipping.
 Ship prepaid to: Platinum Tools
 806 Calle Plano

Camarillo, CA 93012

www.platinumtools.com

	Specifications	
Physical Dimensions	Size: 17.3 x 8.0 x 3.3 cm (6.8 x 3.15 x 1.3 inches) Weight: 340 grams (12.0 oz.) with battery	
Input Protection	To 400 volts peak 50/60 Hz AC or DC	
Voltage Warning	At maximum of Safety Extra Low Voltage limits (60V peak AC or DC) • Measurement continues while warning is displayed	
Measurement Method	Spread Spectrum Time Domain Reflectometry (SSTDR)	
NVP (VOP) Range	20.0 to 99.9%	
NVP Accuracy Range	±1% with known NVP and consistent cable parameters	
Maximum Length	3,000 ft on cables with low attenuation	
Common Cable Length Ranges	 Coaxial Cable - 0 to 2,000 feet Data Cable - 0 to 1,500 feet Electrical Cable - 0 to 1,000 feet 	
Tone Generation	4 selectable tone cadences centered on 1 kHz Constant output amplitude of 3 Vp-p	
Power	4 AA alkaline batteries • Standby: 4 years • Active: 15 hours average	
Battery Low Level	Approximately 4 volts	
Operating Environment	 Operating temperature: 0 to 50°C (32 to 122°F) Storage temperature: -20 to 60°C (-4 to 140°F) Humidity: 10% to 90%, non-condensing Altitude: 3,050 meters (10,000ft) maximum 	
Compliance	C € Complies with Conformité Européenne directives.	

Appendix A

Table 12 below lists common NVP values and NVP ranges by cable type to assist you with testing.

Note: Romex brand of Type NM cables is a registered Trademark of Southwire Company

Table 12. NVP Values by Cable Type

Cable Type	NVP	Range	
Coaxial Cables			
RG58	65.4	64.5 - 66.4	
RG59	83.9	83.0 - 85.0	
RG6U	84.6	83.5 - 85.5	
RG6 Quad Shield	84.9	84.0 - 86.0	
Phone Cables			
CAT3 4 Pair	67.3	65.5 - 68.0	
CAT3 3 Pair CMX	67.5	66.5 - 68.1	
24/25 Pair CAT3	64	63.0 - 65.0	
Data Cables			
CAT5e (Orange/Orange White)	65.9	65.0 - 67.0	
CAT5E STP	65.2	64.2 - 66.2	
CAT5E FTP	73.1	72.1 - 74.1	
24/25 Pair CAT5e	71	70.0 - 72.0	
CAT6	68.8	67.5 - 69.5	

Table 12. NVP Values by Cable Type

Cable Type	NVP	Range
Electrical Cables		
10/2 Romex Coiled	68.8	68.0 - 70.0
10/2 Romex Uncoiled	71.2	70.2 - 72.2
12/2 Romex Coiled	67.1	66.0 - 68.0
12/2 Romex Uncoiled	73.2	72.0 - 74.0
12/3 Romex Coiled	63.7	63.0 - 64.5
12/3 Romex Uncoiled	70.6	69.5 - 71.5
12/3 Romex Twisted Coiled	68.4	67.8 - 69.4
12/3 Romex Twisted Uncoiled	68.4	67.8 - 69.0
14/2 Romex Coiled	66.4	65.0 - 68.6
14/2 Romex Uncoiled	71.9	71.0 - 73.0
14/3 Romex Coiled	64.8	64.0 - 65.5
14/3 Romex Uncoiled	68.6	67.5 - 69.5
Security Cables		
12/2 Fire PLN	59.9	59.0 - 60.9
18/4 Fire PLN	60.4	59.5 - 61.5
16/2 Fire PVC	65.9	65.0 - 67.0
18/6 Fire PLN	61.6	60.5 - 62.5
14/2 Audio Cable	71	70.0 - 72.0

Snap Shot

Fault Finding/Cable Length Measurement SSTDR

User Manual



For technical information and customer support, please visit www.PlatinumTools .com or send an email to support@PlatinumTools .com.

Contact Numbers: Phone: 805-384-2777

Fax: 805-384-2778

Address: 806 Calle Plano

Camarillo, CA 93012

www.platinumtools.com