Quick Start Guide

VDV Commander™
VDV501-097

ENGLISH

- TESTS CABLES
- MEASURES CABLE LENGTH WITH TDR
- DETECTS FAULTS
- DETECTS AND MEASURES PoE
- LOCATES AND IDENTIFIES CABLES
- TESTS ACTIVE NETWORK
- SAVE AND PRINT REPORTS

KLEIN TOOLS®

EST. 1857

For Professionals… Since 1857® USA

C E

Full-color LCD Display

Function Buttons perform the function on the display above each button

"Back" Button

"Test" Button

"Arrow" Buttons

"Enter" Button

"On/Off" Button

Coax Connector

USB Port

RJ45 Jack

LCD SCREEN

The VDV Commander features a full-color graphic LCD screen. Press any of the four blue buttons ⬭ below the on-screen icon to select that function. Alternately, you can use the side or up/down arrows ◀ ▶ ▲ ▼ to scroll to desired on-screen function and press the "Enter" button ⊕.

SETUP

From the main screen, press the blue function button ⬭ on the far right below the "setup" symbol ⚙. Use the up and down arrow buttons ▲ ▼ to scroll through the Setup menu and to select an option.


```
⚙                               🔋

              ➡  VoP 💻 = 68.0 %
                 VoP -∎🖥 = 83.5 %
    ▲▼           T568A/B = T568B
   Select        Pair/Pin = Pair
   Option        📏 = Feet
                 🕐 🔴 = 10.0 Min
   ◀▶            🕐 💡 = 02.5 Min
   Change        Language = English
  defaults    🖥    calibrate    Files
```
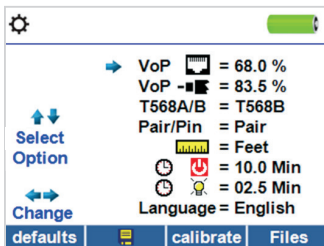
- Use the up and down arrow buttons ▲ ▼ to navigate through the settings.

- Use the left and right arrow buttons ◀ ▶ to select setting.

- Use the up and down arrow buttons ▲ ▼ to change the selected setting.

- Press the "Enter" button ⊕ to accept your changes.

- Press the left arrow to unselect a setting.

Performing a Cable Test

Press the "On/Off" button 🔴 to power on the VDV Commander.

- Connect a network, coax, or telephone cable to the appropriate connector on the top of the VDV Commander. WARNING: Do NOT plug an RJ12 cable directly into the VDV Commander. A standard RJ12 cable will damage the VDV Commander's RJ45 jack. Use the RJ adapter patch cable (VDV726-125) that is included with the VDV Commander.

- Press the "Enter" button 🔵 to display the cable test menu. The VDV Commander will automatically perform a test upon entering the cable test menu.

- To scroll through Cable Type mode, press the RJ45 function button. The icon will change with each press, from RJ45 to coax to telephone 🔲 / ▬■ / ☎.

- If a Test-n-Map™ remote is NOT being used (a one ended test), the VDV Commander will test the length of each pair, open, short, or split pair. Performing a one ended test will not verify connectivity on the opposite end of the cable.

- If a remote is being used, connect the remote to the opposite end of the cable.

- To calibrate the **VoP**, connect a known length of cable to the VDV Commander and press the up/down/left/right buttons to increase or decrease the **VoP**. Press the left and right buttons to select and change the **VoP** one digit at a time.

- While adjusting the **VoP**, press the test button until the desired length of the cable is displayed.

- To save the calibrated **VoP**, enter the settings menu and press the "Save" function button 💾.

    NOTE: your adjusted **VoP** will be displayed next to the RJ45 or coax icon.

- Press the green test button ✅ or the loop mode function button ↰ to perform additional tests.

Saving a Test File

- To save a cable test, press the "Save" function button 🖫.

- Use the arrow buttons ⏷ ⏷ ( ) and
  the "Enter" button ⏎ to name the cable test file.

- Press the "Save" function button 🖫 to save the cable
  test file.

Network/Power over Ethernet PoE Testing

The VDV Commander PoE test identifies the link capability of a network drop and the connection status. VDV Commander detects the presence of PoE, PoE class per IEEE 802.3 af/at, and also measures PoE voltages under load. The Network/PoE tests can be saved for record keeping and printing.

🖧 PoE		
Link Capability	**Link Flow Control**	
10Base-T	Full / Half Duplex	
100Base-TX	Full / Half Duplex	
Connected at	PoE	A 12.95W Max
100 Base-TX	57.9 V	Min Load
MDI FDX	56.5 V	Max Load

- Press the "On/Off" button ⏻ to power on the VDV Commander.
- Connect the VDV Commander to a switch or active network jack.
- Use the left or right arrow buttons to select the Network/PoE icon and press the "Enter" button ↵ or press the Network/POE function button.
- The VDV Commander will automatically detect and display link capability, connection speed, PoE class, and PoE Min/Max voltages.
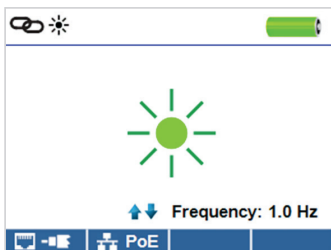- To perform a network test only, press the PoE function button **PoE** 🚫.
- To save the PoE data, press the "Save" function button 🖫.
- Use the arrow buttons and the "Enter" button ↵ to name the PoE file.
- Press the "Save" function button 🖫 to save the PoE file.

GENERAL TESTING PROCEDURES

Link Light

The Link Light test is used to help identify a hub or switch port.

- Press the "On/Off" button ⏻ to power on the VDV Commander.
- Connect the VDV Commander to an active network cable or port.
- Press the Network/PoE function button 🔧 **PoE**, then press the Link Light function button ∞ ☀.
- The Link Light will automatically begin to blink upon entering the Link menu.
- The Link LED above the LCD screen will flash at the same cadence as the port light.
- Use the up and down arrows to adjust the transmit frequency to suit the switch characteristics.

Tone Generator

Tone generation is used to trace cable runs and locate faults by sound. This mode emits a cadence from the VDV Commander through the connected cable. The tone is detected by a tone tracing probe*.
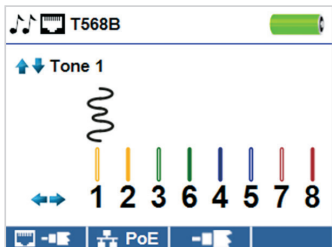
- Press the "On/Off" button ⏻ to power on the VDV Commander.
- Use the left and right arrow buttons ◀▶ to select the tone generator icon and press the "Enter" button ↵.
- The VDV Commander will automatically activate the tone generator upon entering the tone generator menu.
- Connect your cable to either the RJ45 jack or coax connector located on the top of the VDV Commander.
- To switch between network and coax cables, press the coax cable / RJ45 function button ▬▮▮ / ▭.
- Use the up and down arrow buttons ▲ ▼ to select tone cadences 1 through 4.
- Use the left and right arrow buttons ◀▶ to select which pin or pair to place the tone.
- Use a tone tracing probe* (PROBEplus VDV500-060) alongside the cable or at the end of the cable to hear an audible tone.

Probe is included in some kits.

VDV COMMANDER APP

The VDV Commander application gives you the ability to view, save and print cable and network test results on your computer. This application can also update your VDV Commander's firmware.

To install the VDV Commander App

- Go to the VDV Commander product page on **www.kleintools.com** to download the VDV Commander software application.

- Save the VDV Commander Application file to your computer's desktop. Double click on the file to open it.

- Double-click on "SET-UP.exe" to begin installation.

⚠ WARNINGS

To ensure safe operation and service of the tester, follow instructions. Failure to observe these warnings can result in severe injury or death.

The VDV Commander 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.

- It is NOT recommended to use the VDV Commander when the Voltage! icon is present. Operating the VDV Commander when a voltage source exceeds 60 Volts peak AC or DC may pose a safety hazard for the user.

- Internal components are protected up to 400 Volts peak AC or DC.

SYMBOLS:	
⚠	**WARNING:** Potential for personal injury. Caution: Potential for damage or destruction to equipment.
👓	Always wear approved eye protection.
✋	Do NOT use on energized circuits.
C E	Conformité Européenne. Conforms with European Economic Area directives.
⌧	Do not place equipment and its accessories in the trash. Items must be properly disposed of in accordance with local regulations.

CUSTOMER SERVICE

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