

## ACCREDITED SOLUTION

EXPLORER<sup>®</sup> – Delta Wave Communications Field Kit





Document Name: EXPLORER – Delta Wave Communications Field Kit

Revision: E

## Introduction:

This document describes the Field Kit solution from Delta Wave Communications, Inc. that is customized for accommodating an EXPLORER 300 or EXPLORER 500 terminal. All components are self contained within the Pelican carrying case for ease of transport and quick deployment making it ideal for temporary deployment in remote areas, as well as emergency preparedness applications where high speed internet connectivity and voice communications are a requirement.

## Typical Users:

- ▶ First responders
- ▶ Defense
- ▶ Government
- ▶ NGO / disaster relief
- ▶ Civil engineering
- ▶ or any other fixed or semi-fixed outdoor installation

## Product Description:

The DWC Field Kit is watertight, dustproof, chemical resistant and corrosion proof, designed for fitting an EXPLORER 300 or EXPLORER 500 terminal. It is a turnkey integrated package consisting of a rugged Pelican 1450 hard case, along with the EXPLORER 2-wire Handset, as well as 30' network cable with LAN, Phone/Fax and power interconnects necessary for quick and easy field deployment.

The EXPLORER terminal is secured within the lid of the case, while the integrated leveling mechanism allows one to place the unit in an outdoor environment while the case is kept closed. This configuration allows for convenient placement of the EXPLORER terminal while remaining indoors, in most adverse weather conditions.

The DWC-SPIE-500 Field Kit features:

- ▶ Watertight, crushproof, and dust proof
- ▶ The unit, when closed, becomes the terminal
- ▶ Compact design - easy to transport - sets up in minutes
- ▶ Built-in leveling bracket stows flat for transport
- ▶ Pipe mountable - comes with all hardware necessary
- ▶ Optional Wi-Fi pocket router with battery back-up
- ▶ Available in different colors

The Field Kit includes:

- ▶ EXPLORER 2-wire Handset
- ▶ Network interface w. 30 ft (10 m) cable (LAN port, power input, RJ-11)
- ▶ 12V DC cigarette lighter power adapter
- ▶ AC/DC power adapters
- ▶ Two U-bolt assemblies for pipe mounting
- ▶ Wi-Fi router and battery back-up (optional)
- ▶ Quick Guide

EXPLORER 300 / EXPLORER 500 are not included.

Specifications:

- ▶ Exterior Dimensions (L x W x D) : 20.2 x 11.4 x 7.5" (51,3 x 29 x 19 cm)
- ▶ Weight w/EXPLORER & Accessories : 18.5 lbs (8,3 kg) incl. pole mount
- ▶ Ingress Protection : IP-67

More product information <http://www.deltawavecomm.com/>



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## Instructions:

Follow this simple step-by-step instruction to prepare the Field Kit for instant deployment.

- Step 1:** Ensure that the EXPLORER terminal is prepared in accordance with the manufacturer's instructions, i.e. insert the SIM card and battery.



Figure 1a.

Insert your Airtime Provider SIM card as follows:

1. Insert the SIM card into the SIM slot. Make sure the SIM card is positioned as shown in figure 1a.
2. Press gently until it clicks.
3. Slide the lock to secure the SIM card (figure 1b).



Figure 1b.

Inserting the battery:

1. Insert the battery. Make sure the battery is positioned correctly as shown in figure 1c.
2. Press gently until it locks.



Figure 1c.

- Step 2:** Remove the four Phillips screws securing the mounting plate.

Ensure that the EXPLORER terminal is secured on lid retainer, and all connections are properly made as described in the EXPLORER User Manual.

Secure the mounting plate with the four Phillips screws.



Figure 2.

- Step 3:** Pack all accessories into the Pelican and close the case.

The Field Kit is now ready for deployment.



Figure 3.

After the initial preparations of the Field Kit, or when deployed in the field, please follow below steps:

- Step 1:** Set up the Field Kit outdoors where it has a clear line-of-sight to the satellite, i.e. not blocked by objects like buildings, trees, passing cars etc.

The Field Kit must be placed in such a way that during transmission, no person can come closer than the minimum safety distance of 20 inches (50 cm) to the front.



Figure 4.

Step 2: Remove the network interface cable, power adapter and EXPLORER 2-wire Handset from the Pelican case.

Unscrew the protector from the bulkhead connector on outside of Pelican case, and plug network interface cable into it.



Figure 5.

Step 3: Connect the Ethernet cable, power adapter, and the RJ-11 device (if desired) to network interface box.



Figure 6.

Step 4: Crack open the lid of the Pelican case. This step is not necessary if applying external power to the network interface box, as the EXPLORER terminal will automatically power up (default setting).

If no external power is applied, or Power Up Mode has been configured to manual, go to Step 5.



Figure 7.

Step 5: Power-up the EXPLORER terminal by pressing the power button for a couple of seconds.



Figure 8.

Step 6: Fine tune the elevation by pulling the lever outward, away from side of case. Rotating it counter clockwise to loosen the mechanism.

The lever acts as a spring loaded racking release of the tightening nut that allows the leveling mechanism to be positioned for correct elevation.



Figure 9.

Step 7: There are two ways to point the terminal.

One way is to keep the lid open at pointing which allows use of the beeper and display on the terminal (figure 10a). Adjust the position (azimuth & elevation) of the Peli case and press the OK key when optimal signal is obtained.



Figure 10a.

If above method is not possible then enter the built-in EXPLORER web interface by connecting a computer to the LAN interface of the network interface box.

Power up your computer. Start up the Internet Explorer and type <http://192.168.0.1> to access the built-in EXPLORER web interface as shown in figure 10b.



Figure 10b.

Click on 'Go to pointing mode' and adjust the position (azimuth & elevation) of the Pelican case and press Accept (figure 10c) when maximum signal is obtained.

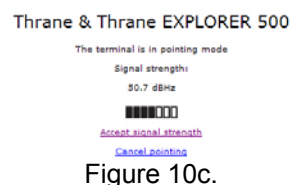


Figure 10c.

Step 9: The Field Kit is now ready to make and receive calls, access the Internet, send and receive e-mails, video conferencing, stream video, access your corporate network, etc.



Figure 11.

The default behavior of the EXPLORER terminal is to power up automatically when applying external power. You may want to change the setting in the terminal, so that the EXPLORER is only powered if the Power button is pressed manually.

This will enable charging and maintenance of the battery without having to manually switch OFF the terminal each time.

It takes less than three hours to fully charge the EXPLORER terminals battery.

Manual power up can be configured under SETTINGS from the EXPLORER web interface <http://192.168.0.1> Set 'The terminal will switch on when external power is connected' to No.

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BATTERY: SIGNAL: BT

- DASHBOARD
- PHONE BOOK
- MESSAGES
- CALLS
- SETTINGS
- USB
- LAN
- Bluetooth
- Phone/Fax
- Common
- Advanced
- Language
- PROPERTIES
- ADMINISTRATION
- HELPDESK
- SITE MAP

**POWER UP**

Pointing required at power up  Yes  No

The terminal will switch on when external power is connected  Yes  No

**BACKLIGHT**

Timed

Set level

**CONTRAST**

Automatic  Yes  No

Set level

**AUDIO INDICATORS**

Pointing  On  Off

Messages  On  Off

Alarm  On  Off

**STEALTH MODE**

Stealth  Enable  Disable

Click on the Apply button to save the new settings.

You may also want to disable the Bluetooth interface found under SETTINGS - Bluetooth.

You can preserve power by following below guidelines:

- ▶ Point the EXPLORER antenna carefully to obtain best possible signal strength.
- ▶ Upgrade the EXPLORER terminal firmware to latest software release.
- ▶ Switch OFF the EXPLORER terminal when not used for more than 15 min.

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