





# Walkthrough Explosives and Weapons Detection System



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## Acronyms & Terms

## Acronyms & Terms

Acronym	Definition
3D	Three Dimensional
AI	Artificial Intelligence
EIRP	Effective Isotropic Radiated Power
FCC	Federal Communications Commission
LDT	Liberty Defense Technologies
RF/RFI	Radio Frequency/ Radio Frequency Interference
OCP	Operator Control Panel
TD	Threat Detection

Word	Definition
Alarm	Visual symbol for marking a detected threat location
Avatar	Computer-rendered figure
Detected Threat	Threats flagged during real-time screening
Device	FCC reference for a "Class A" digital device
Divest	Act of disclosing or handing screening staff personal belongings such as a cell phone, car keys, jacket, or wallet
Operator	Person monitoring/running the dashboard during real-time screening
Scan/Screen	Used interchangeably – the process of individuals being cleared or flagged (alarmed), in real-time, by HEXWAVE™ for concealed threats
Threat Detection	The process of screening for concealed threats as individuals walk through the HEXWAVE™

## **FCC Compliance**

## **FCC Interference Statement**

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in commercial, industrial, or business environments. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their own expense.

Modifications: System modifications or component changes not expressly approved by Liberty Defense could void the user's authority to operate the equipment under FCC regulations.

Shielded Cables: To meet FCC requirements, only the cabling provided by, or approved by Liberty Defense, may be used for system interconnects.

Users were advised to maintain a 20cm separation from the transmitters.

## **FCC Waiver Conditions**

Accordingly, pursuant to the delegated authority in Sections 0.31 and 0.241 of the Commission's rules, FCC waives the requirements of Sections 15.31(c), 15.503(d), the introductory test of 15.511(b), 15.511(b)(2), 15.511(f) and 15.521(d) of FCC rules to permit the certification and marketing of the HEXWAVE<sup>™</sup> system. This waiver is subject to the following conditions:

- 1. The HEXWAVE<sup>™</sup> system will operate as described in the FCC waiver conditions.
- 2. Liberty Defense shall inform purchasers that HEXWAVE<sup>™</sup> devices may not be resold or leased to third parties for use at another installation in the United States without prior notice to Liberty and unless appropriate arrangements are made to meet all conditions of this waiver.
- 3. This waiver shall apply to the HEXWAVE™ system described herein and provided no changes are made to the transmitter that would increase the system's EIRP.
- 4. Liberty Defense shall include the following language on a label, displayed in a conspicuous location; "Operation of this device is restricted to law enforcement, fire and rescue officials, private security personnel, public utilities, and industrial entities. Operation by any other party is a violation of 47 U.S.C. 301 and could subject the operator to serious legal penalties."

## FCC Compliance

#### 5. Liberty Defense require to avoid outdoor deployment within 20 km of the sites

#### listed in footnote US 131:

Arecibo Observatory, PR Green Bank Telescope (GBT), WV	18° 20' 37" N, 66° 45' 11" W 38° 25' 59" N, 79° 50' 23" W
Very Large Array (VLA), Socorro, NM	34° 04' 44" N, 107° 37' 06" W
Very Long Baseline Array (VLBA) Stations:	
Brewster, WA	48° 07' 52" N, 119° 41' 00" W
Fort Davis, TX	30° 38' 06" N, 103° 56' 41" W
Hancock, NH	42° 56' 01" N, 71° 59' 12" W
Kitt Peak, AZ	31° 57' 23" N, 111° 36' 45" W
Los Alamos, NM	35° 46' 30" N, 106° 14' 44" W
Mauna Kea, HI	19° 48' 05" N, 155° 27' 20" W
North Liberty, IA	41° 46' 17" N, 91° 34' 27" W
Owens Valley, CA	.37° 13' 54" N, 118° 16' 37" W
Pie Town, NM	34° 18' 04" N, 108° 07' 09" W
St. Croix, VI	17° 45' 24" N, 64° 35' 01" W

Please contact Liberty Defense for coordination if deployment is necessary for outdoor operations within 20 km of the above referenced sites.

6. Liberty Defense require to avoid outdoor deployment within 10 km of the sites listed in Table 1:

Location	Latitude (dd mm ss)	Longitude (ddd mm ss)
AK, Anchorage	61 09 24 N	149 59 07 W
AK, Fairbanks	64 51 32 N	147 51 04 W
AK, U of AK	64 51 37 N	147 50 50 W
AK, North Pole	64 48 18 N	147 30 00 W
AK, North Pole West AS4	64 47 37 N	147 32 18 W
AK, North Pole West AS5	64 47 42 N	147 32 18 W
AK, Poker Flat	65 07 00 N	147 27 35 W
CA, Goldstone (DSS-14)	35 25 33 N	116 53 19 W
CA, Goldstone (DSS-24)	35 20 24 N	116 52 29 W
CA, Goldstone (DSS-25)	35 20 15 N	116 52 31 W
CA, Goldstone (DSS-26)	35 20 09 N	116 52 23 W
HI, South Point	19 00 50 N	155 39 47 W
SD, Sioux Falls	43 44 10 N	096 37 21W
VA, Wallops Island	37 55 28 N	075 28 35 W
VA Wallops Island	37 55 35 N	075 28 32 W

#### Table 1. Exclusion Zone Sites

 The outdoor deployment Coordination Zone Sites that should be subject to a 1.2 km coordination zone are identified in Table 2.

Location	Latitude (dd mm ss)	Longitude (ddd mm ss)
CA, La Jolla	32 52 11 N	117 15 07 W
CA, Orange	33 47 38 N	117 51 00 W
CA, Pasadena	34 12 06 N	118 10 27 W
CA, Poway	32 56 18 N	117 02 42 W
DE, Newark	39 41 01 N	075 45 18 W
FL, St. Petersburg	27 45 36 N	082 37 55 W
FL, Tallahassee	30 23 10 N	084 13 53 W
HI, Honolulu	21 17 54 N	157 48 59 W
IN, Indianapolis	39 47 42 N	086 03 43 W
IN, Lafayette	40 25 48 N	086 54 54 W
KY, Morehead	38 11 31 N	083 26 20 W
LA, Baton Rouge	30 24 43 N	091 10 44 W
MD, Greenbelt	38 59 57 N	076 51 18 W
MD, Lanham	38 57 40 N	076 50 24 W
MD, Suitland	38 51 07 N	076 56 31 W
MI, Peach Mountain	42 23 56 N	083 56 08 W
MS, Stennis Space Center	30 22 05 N	089 37 01 W
MT, Missoula	46 55 34 N	114 05 35 W
NJ, New Brunswick	40 28 48 N	074 26 13 W
NM, Albuquerque	35 05 02 N	106 37 16 W
NY, New York	40 49 12 N	073 57 00 W
OR, Corvallis	44 34 04 N	123 16 39 W
TX, Austin	30 23 42 N	097 44 06 W
TX, Irving	32 52 41 N	096 59 53 W
UT, Salt Lake City	40 46 00 N	111 53 13 W
WI, Madison	43 04 15 N	089 24 24 W

#### Table 2. Coordination Zone Sites

Please contact Liberty Defense for coordination if deployment is necessary for outdoor operations within the above referenced sites.

### Product Labels and Descriptions

## **Product Labels and Descriptions**



Figure 1. Product ID Label

## **Label Locations**

ED FO

#### FCC ID: 2BCFHHW2000

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

[I] This device may not cause harmful interference, and

[2] This device must accept any interference received, including interference that may cause undesired operation.

[3] Operation of this device is restricted to law enforcement, fire and recue officials, private security personnel, public utilities, and industrial entities. Operation by any other party is a violation of 47 US C. 201 and could subject the operator to serious legal penalties.



Figure 3. Label Locations

### Product Labels and Descriptions

## Safety Symbols & Notices

The HEXWAVE<sup>™</sup> User Guide includes the following symbols:



## **Safety Notices:**

- Do not attempt to open or modify a panel or use it in any way other than as described in this manual. Doing so will render the system's limited warranty null and void and may cause personal injury.
- 2. Do not enter a HEXWAVE<sup>™</sup> portal wearing internal pacemakers and defibrillator medical devices.



- 3. Users must always maintain a 20cm separation from the front panels (transmitters).
- 4. Trip hazard Any cables running between the panels should be covered or taped down to avoid a tripping hazard.
- 5. Conditions for HEXWAVE<sup>™</sup> operation must be level, dry, and not exceed the maximum operating temperature of 95°F/35°C.
- 6. It is recommended that two (2) people unpack a panel.

## Product Labels and Descriptions

## Specifications

## **Physical & Environment:**

Panel Height	73.3" (1.86 m)
Panel Depth	8.2" (0.2 m)
Wheelbase Width	43.8" (1.11 m)
Wheelbase Depth	26.1" (0.66 m)
Weight	Each Panel is ~140 lbs. (~63.5 kg)
Wheels	Lock for stability
Operating Temperature	42° F to 95° F/ 5° C to 35° C
Storage Temperature	32° F to 113° F/ 0° C to 45° C
Relative Humidity	20% to 80% (without condensation)
Operating Altitude	11,000 ft

## Connectivity:

Ethernet	IEEE 802.3
WIFI	IEEE 802.11 a/b/cg/n/ac
Supported Browsers	Chrome and Firefox
Power Supply	100 to 264 VAC, 47 to 63 Hz, 2000 VA
Power Access	Standard power outlet; dedicated 15A line

## Certification & Compliance:

FCC	Compliant with applicable FCC Regulatory Standards as defined in the FCC waiver
Product Safety	Compliant with safety standard UL 62368-1:2019 Ed. 3

## **Overview**

HEXWAVE<sup>™</sup> is a real-time, walkthrough security system built to detect metallic and nonmetallic weapons and threats concealed on people. HEXWAVE<sup>™</sup> recognizes all of today's threats including traditional weapons, improvised weapons like 3D-printed guns, ceramic knives, and plastic, liquid, and powder explosives.

Using AI, the system does not alarm on benign objects such as keys, wallets, and cell phones, and eliminates the need to divest outerwear (jackets/coats/shoes) for screening. This creates an ideal screening environment that is fast, simple, unintrusive and easily managed for both high- and low-foot traffic venues and applications.

HEXWAVE<sup>™</sup> captures and reports on important threat-related data, including the threat type, location, and detection time, in a variety of formats for analysis. The system does not store images or any personal information, ensuring 100% protected personal privacy.



#### Figure 4. HEXWAVE<sup>TM</sup> Overview

## Overview The HEXWAVE<sup>™</sup> Panel **Alarm Light** Camera **Traffic Flow Lights** Handle L**iberty** Defense **Barrier Connector** 73.34 in. (1.86 m) J HEXVVVE Power & Cable Connections (00000) 23.06 in. (.58 m) 43.78 in. (1.11 m) Figure 6. HEXWAVE<sup>™</sup> Rear **Figure 5.** HEXWAVE<sup>™</sup> Front Panel Panel **Power and Cable Connections** HOME SSG. A.C. 6 On/Off USB **RJ45** Switch USB Power HDMI Charger

## **Panel Lights - Traffic Flow and Alarm**

Top & Side Lights		
Color	Alert	
Green	Clear - next person may enter the system	
Blue	Not Clear - someone is going through the system	
Red	Alarm - requires resolution before next person may enter the system	
Yellow (Flashing)	Service required or System Error - requires resolution	

## **Monitoring Software**

HEXWAVE™'s software features an Operator Control Panel (OCP) where operators monitor and clear individuals for threats and direct traffic flow. It also has an advanced operations component for managing sites and user accounts and running reports.



Figure 8. Tablet Setup with Operator Control Panel

## **Installation & Setup**

## Unpack



- Single panel weighs approximately of 140 lbs. (63 kg)
- It is recommended that two people unpack a panel



- Unpack panels near or at the installation site. No special tools are required
- HEXWAVE<sup>™</sup> is compatible with any stand, such as a desk or a podium and will work with any viewing device that has an internet connection and monitor

#### Panels

- 1. Check for shipping damage and report as necessary.
- 2. Unstrap all strapping and remove the top lid.
- 3. Remove the 2 side panels and set aside.
- 4. Remove any accessories or packages and set aside.
- 5. Put the ramp in place, with the ramp posts inserted into the base to keep the ramp from moving.
- 6. Unscrew the wing nuts holding the hold-down bracket, and retain the hardware for future use.
- 7. Unlock the system's wheel locks and carefully roll the system down the ramp.

#### Accessories

Unpack the items for setup:

- (1) Tablet
- (1) Universal tablet floor stand
- (1) USB-C to ethernet adaptor
- (2) Power cables, 10'
- (1) Router
- (3) Ethernet cables, 10', 6', 3' black
- (1) User Manual on USB

#### **Optional Accessories**

- Laptop (Administrator Use)
- Portable Calibration Plate
- APC UPS 1500VA UPS Battery Backup & Surge Protector
- Stanchion Set

## **Placement Options**

• **Standalone** – Single panel screening setup requires individuals to be screened at 30 in. (.76 m) from the panel front. Individuals turn twice for full screening.



Figure 9. Standalone Setup

• **Portal Setup**: Start with the panels facing each other and touching at the wheelbase for proper alignment. Lock the wheels on one panel and roll the second panel back a minimum of 64 in. (1.62 m) to a maximum of 72 in (1.82 m). Overall placement should allow for going around the portal, if necessary.



Figure 10. Portal Setup (a)



Figure 11. Portal Setup (b)

### **Lock Wheels**

Lock all four wheels after placement by pressing down each wheel's locking lever. To unlock, pull the lever up.



## Tablet Stand Setup

- 1. Assemble the stand.
- 2. Secure/lock the tablet onto the stand.
- 3. If necessary, adjust and re-lock the stand height.

### **Power Up Panels**

- 1. Attach the AC cord to the panel.
- 2. Plug each panel's AC plug into an AC source.
- 3. The equipment needs to be connected to a grounded outlet.
- 4. Press the Power button once on each panel to power it up.

## **Setup Configuration**

1. Designate Panels as Left and Right (Devices)



Figure 13. Panel Setup Configuration

a. Select PORTAL or S-PATH



Figure 14. Portal Setup

S-PATH



Figure 15. S-Path Setup



Figure 16. Setup Configuration (a)

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	Device Details		
	AssAUP	ter.	
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Figure 17. Setup Configuration (b)

- a. Click on DETECT
- b. Click on SYNC
- c. Click on the CONFIRM button

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			×
ÎÎ	Avec April Official		-
	Device Details		
	N-MAR Interio	906	
4	Derveol can		
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Figure 18. Setup Configuration (c)

d. Repeat the process to set up the right lane.

This completes Installation & Setup.

## **Basic User Operations**

## **Threat Detection Monitoring**



Customers using HEXWAVE<sup>™</sup> Operator Control Panel should follow their company's protocols for escalating and managing detected threats.

In general, individuals being screened should:

- Proceed one at a time through the portal.
- Walk—Turn—Go for portal screening.
- Not be screened wearing internal medical devices such as pacemakers and defibrillators.
- Have enough space around the portal to bypass screening, if necessary.

### Log In

Open a browser window and log in using the following credentials and the assigned password:

#### HEXWAVE.basic@email.com

Defense
E 2023/96/08 (0 11:11:16 B Scan Count : 000041
Login
USER NAME
bexwave.basic@email.com
PASSWORD
Forgot email or passcode?
REGISTER
Figure 19. Basic User Login

## **Operator Control Panel**

After logging as a level 3 user, the Operator Control Panel Screen opens (shown below) where Operators screen individuals as they pass through the portal. The avatars represent an individual's front and back as they are being screened.

- When no threat is detected, the operator clears the individual on the console, the panels show the solid green all clear light and the system resets for the next person to screen.
- When a threat is detected, a visual alert appears on the avatar showing the threat location. The system records the threat location, type, date, and time. The top light on the panel shows solid red.

Operators are required to follow their company procedures for threat resolution and escalation to management for further action.



Figure 20. Operator Control Panel (OCP)

Advanced Operations are used by supervisory staff for managing sites and accounts, and by service technicians for customer service.

## Log In

Access requires using one of the following credentials and the assigned password:

<u>HEXWAVE™.advanced@email.com</u>

<u>technician.cust@email.com</u>

technician.LDT@email.com

Liberty Defense
Login
LUSER NAME
A PASSWORD

#### Figure 21. Login Page

## **Overview**

After login, the Threat and Device Status dashboard opens where site components such as Calibration Services, threats, venues, gates, lanes, device, tablets, locations, customers, and user accounts are set up and managed. Reports are available as described in Generating Reports.



Figure 22. Threat and Device Status Screen

## **Calibration Services**

#### **Full Calibration**

• Click full calibration under calibration service on the hamburger menu.



#### **Air Calibration**

• Click air calibration under calibration service on the hamburger menu.



Figure 24. Air Calibration Screen

#### **Offset Calculation**

• Click offset value under calibration service on the hamburger menu.



#### Figure 25. Offset Calculation Screen

## **Threat and Device Status**

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Threat and Device Status	
Figure 36. Threat and Device Status Screen	

#### **User Management**



#### Account Management

- Click account management under user management on the hamburger menu to:
  - a. CREATE
  - b. EDIT
  - c. DELETE

:				Defense	<b>*</b>	C
	Account	Management				
	Search		Q			
	USER FULL NAME	USER EMAIL	ACCESS LEVEL	EXPIRATION DATE	STATUS	
	hexwave z	hexwave.z@email.com	Z (Super User)	N/A	•	
	user 2 acc	user.2@email.com	2 (Supervisor)	10/12/2024	•	
	user 3 acc	user.3@email.com	3 (Operator)	10/12/2024	<b>•</b>	
	user z acc	user.z@email.com	Z (Super User)	N/A	•	

Figure 47. Account Management Screen

#### **Access Level**

- Click access level under user management on the hamburger menu to:
  - a. Assign Capability

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	Access Level			^
	Access level search	Q		
	Access Level			
	Z (Super User)			
	1 (Manager)			
	2 (Supervisor)			
	3 (Operator)			
Figure 58. A	ccess Level Screen			
HEXWAVE	• User Manual			Page  24

## **Generating Reports**

Click Reports on the hamburger menu.

~	Reports	$\sim$
	Dashboard	
	Scan Count Details	
	Device Information	
	Operator Information	
	Operator Action	
	Screener Message	

#### Dashboard

- Click dashboard under reports on the hamburger menu to view:
  - a. Total persons scanned during the time period.



Figure 69. Dashboard Screen

#### **Scan Count Details**

• Click scan count details under reports on the hamburger menu to view report.

					@ <b>Lib</b>	erty 🚮 🔫
ican Count l	Details F	Report				
Blart Date WITH	NG 1 12	20 ( Ø E	nd Date 10.1	12222 🛃 🛛 1124 F 🛈		
Total Scanned = 8		ersons Alar	med# 4	Persons Cleared = 4	Total	Alarms = 4
DATE & TIME	TERMINAL	LANE	ALARMS COUNT	ALARM LOCATION	GUNRD NAME	QUARD ID
10/13/2029 03/09/40	new	1000		Upper Back	11994 E 955	user z@email s om
10/13/2023 03:09:38	new	1004	28	Upper Back	1997 3.400.	user stamail s om
10/13/2023	tiew.	Stow:			HALL BEET	user z@email.s.

#### Figure 30. Scan Count Details Screen

#### **Device Information**

- Click device information under reports on the hamburger menu to:
  - a. Show REPORT
  - b. Export to EXCEL
  - c. Export to PDF

Start Dale	 11/2021	51	1210 / 0	Termonat	15	al farminal	
End Date	ard bridden			Lane	- 1	All Lanes	
		0				_	-
					B		B
				I	REPORT	ERCEL	PDF

Figure 31. Device Information Screen

#### **Operator Information**

- Click operator information under reports on the hamburger menu to:
  - a. Show REPORT
  - b. Export to EXCEL
  - c. Export to PDF

=			🕞 Liberty 좖 🗢 🕩
Operator Infor	mation Report		
Start Date 50/13/202	12:00 / O End Date	10/13/2023 🖬 11:59 F 🛇	SHOW EXPORT TO EXPORT TO PDF
GUARD NAME	GUARD ID	LOGIN TIME	LOGOUT TIME
hexwave z	hexwave.z@email.com	10/13/2023 11:52:32	NA
user z acc	user.z@email.com	10/13/2023 03:08:46	10/13/2023 03:13:53
user z acc	user.z@email.com	10/13/2023 03:08:37	10/13/2023 03:08:42
user z acc	user.z@email.com	10/13/2023 03:08:15	NA

Figure 32. Operator Information Screen

#### **Operator Action**

- Click operator action under reports on the hamburger menu to:
  - a. Show REPORT
  - b. Export to EXCEL
  - c. Export to PDF

≡							9	Liberty Defense	•	•
	Operato	r Action R	eport						_	
	Start Date	10/13/2023 🖬	12:00 / ©	End Date	90/13/2023 🖬	11:50 F 🛇	SHOW REPORT	EXPORT TO EXCEL	EXPORT TO PDF	
Figu	<b>ure 33.</b> Ope	rator Actio	n Repor	t Screer	1					
HEX	<b>(WAVE™</b> U	lser Manua	1						Pag	e  27

## Advanced User Operations **Screener Message** • Click screener message under reports on the hamburger menu to: a. Show REPORT b. Export to EXCEL c. Export to PDF Defense Screener Message Report ∎ R 10/13/2023 12:00 / S End Date 10/13/2023 11:59 F 🛇 Start Date EXPORT TO SHOW EXPORT TO REPORT EXCEL

Figure 34. Screener Message Report Screen



#### **Terminal Management**

- Click terminal management under airport setup on the hamburger menu to:
  - a. Assign Terminal to Map
  - b. Add Terminal
  - c. Delete Terminal

=		🕞 Liberty 🕋 荣 🕞
	Manage Airport Terminal	
		ASSIGN TERMINAL TO MAP FOOTPRINT
	TERMINAL NAME	TERMINALID
	new	4

Figure 35. Manage Airport Terminal Screen

#### Lane Management

Click lane management under airport setup on the hamburger menu:
a. Click new

≡		Defense	🗢 💽
	Set up Lanes at Terminal		×
	TERMINAL NAME		
	new		

#### Figure 36. Lane Set Up Screen

- b. Switch terminal
- c. Setup a lane
- d. Edit lane



#### **Device Management**

- Click device management under airport setup on the hamburger menu to:
  - a. CREATE
  - b. EDIT
  - c. DELETE

Device N	lanageme	ent		
Baracolic			٩	8 8 8
				DEVICE
DEVICE NAME	DEVICE UID	# ADDRESS	SIDE	CONFIGURE DEVICE LIGHT
		172 16 2 173	LEFT	Ø
Device 1	Device 1	104000400040		

Figure 37. Device Management Screen

#### **Tablet Management**

- Click tablet management under airport setup on the hamburger menu to:
  - a. CREATE TABLET
  - b. EDIT TABLET
  - c. DELETE TABLET

		🕞 Liberty 🚮 🗢
Tablet Man	agement	
Search .		Q 🕑 🖬 🖞
		TABLET TABLET TABLET
TABLET NAME	TABLET ID	EMAIL ADDRESS
hexwave z	1	hexwave.z@email.com
user 3	2	user.3@email.com

#### Figure 38. Tablet Management Screen

#### Diagnostics

- Click diagnostics under the hamburger menu to:
  - a. Start capture
  - b. Stop capture
  - c. State monitor
  - d. Reboot device
  - e. Shutdown



Figure 38. Diagnostics Screen

## Appendix

## Appendix

## Warranty

The HEXWAVE System comes with a 1-year standard parts and labor warranty. We will have extended warranties available for purchase.