HEXWAVE™
Walkthrough Detection of Concealed Weapons and Threats

Liberty Defense
RELENTLESS SECURITY OPTIMIZATION

The HEXWAVE™ system processes people quickly and effectively, providing touchless screening at the checkpoint or perimeter for enhanced protection, a layered defense, and a better experience.

The HEXWAVE portal scans for all types of concealed threats – non-metallic as well as metallic threats like 3D printed guns, ceramic knives, and improvised explosives.
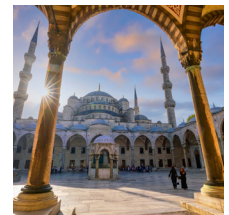
> Detects metal and non-metal threats using Millimeter Wave and 3D Video-Rate Imaging

> Better detection allows for processing people in real-time for high throughput flow (700+ people per hour)

> No need to divest keys, wallets, cell phones, jackets, etc.

> Powered by AI and Deep Learning algorithms for automatic threat detection (trained on 100 TB of AI threat data)

> Gives operators a clear go/no-go decision, location of threat, and visible/audible alerts. Allows for directed search

> Maintains personal privacy and no images are stored

> Allows connectivity to existing security systems (VMS, access control) and over the air AI/software updates for evolving threats

> Provides flexible indoor/outdoor, mobile, or fixed installation

> Can be used attended or unattended, inside or outside a checkpoint

FRICTIONLESS PROTECTION

The HEXWAVE system provides a layered defense to ensure safe, touchless, advanced detection in many applications and venues types.

> Sports Venues
> Entertainment Venues
> Casinos
> Hotels
> Tourist Attractions
> Shopping Malls
> Office Buildings
> School Campuses
> Places of Worship
> Distribution Centers
> Government Buildings
> Air and Sea Ports

FEATURES and SPECIFICATIONS

Connected
Smart IoT functionality for connectivity to existing security systems (VMS, access control)

Depth Camera
Auto-triggered by person walking through (no operator intervention)

Pacing Indicators
Proceed/Wait indication at entrance

Barrier Integration
Retractable barrier belt integration

Power
Power is required to each HEXWAVE device

Screening Distance
Integrated for optimal screening

Walk-Thru Spacing
Easily adjust the distance between the devices, ADA wheelchair compliant

Future Proof
Over the air AI algorithm updates for threat updates and software upgrades

Open, Minimalist Design
No overhead structure, no floor cabling between independently operating panels

HEXWAVE Application
Powered by 3D video rate imaging and AI machine learning software

HEXWAVE Dashboard
Supports data analytics and reporting

Detected Indicators
Threat indication at exit

Device Status Indicator
Device status indicator

Safe
Uses millimeter wave, low power radar and emits a safe signal that is a fraction of wifi

Clear Alerts
Gives operators a clear go/no-go decision, location of threat, and visible/audible alerts

Versatile
Portable/Fixed deployment, indoors and outdoors (under cover). Wheels lockable.

THREAT ALERTS
METALLIC and NON-METALLIC

RIFLES

SHOTGUNS

HANDGUNS
Full-size
Compact
Sub-compact
3D printed/ghost

IEDs
Plastic
Liquid
Powder explosives

KNIVES
Ceramic
Plastic
Metal

NO DIVESTING

PHYSICAL SPECIFICATIONS

Panel Height – 1.8 m (72")

Panel Width – .17 m (7.0")

Base Width – .58 m (23.5")

Weight – each panel is ~55kg (125lbs)

Wheelbase locks for stability

Optimal panel placement –
1.5 m (72") apart

CONNECTIVITY

Ethernet (IEEE 802.3)

WIFI (IEEE 802.11 a/b/g/n/ac)

System supports open standards for cyber security

CERTIFICATION AND COMPLIANCE

Compliant with applicable FCC regulatory standards

Compliant with applicable industry standards*

Compliant with applicable electromagnetic Standards on Human Exposure and Pacemaker Safety*

Compliant with applicable International Standards for electrical safety and EMC*

* in progress

ENVIRONMENTAL DATA

Unaffected by proximity to EMI or metal

Power Supply:
100 to 264 VAC, 47 to 63 Hz, 2000 VA

Operating Temperature:
5°F to 95°F/ -15°C to 35°C

Storage Temperature:
-30°F to 150°F/ -34.4°C to 65.5°C

Relative Humidity:
5 to 95% (without condensation)

Liberty Defense

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TSXV: **SCAN**   OTCQB: **LDDFF**   FRANKFURT: **LD2A**