The World's First and Only
Pre-Crime Suspect Detection Surveillance
Software

DEFENDER–X

Pre-Crime
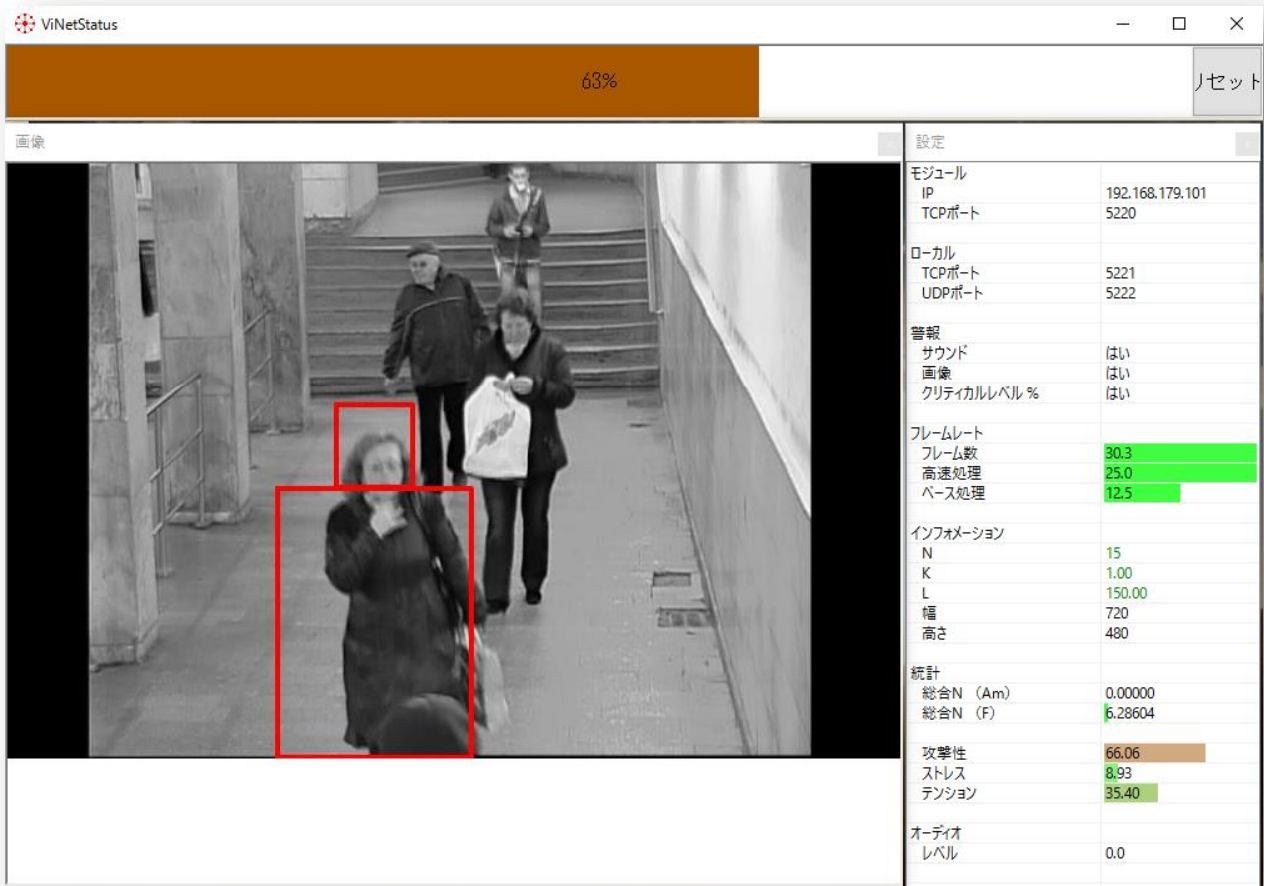Detects the Suspect BEFORE the Crime is Committed

Post-Crime
Detects the Criminal After the Crime from Pre-recorded Video Footage

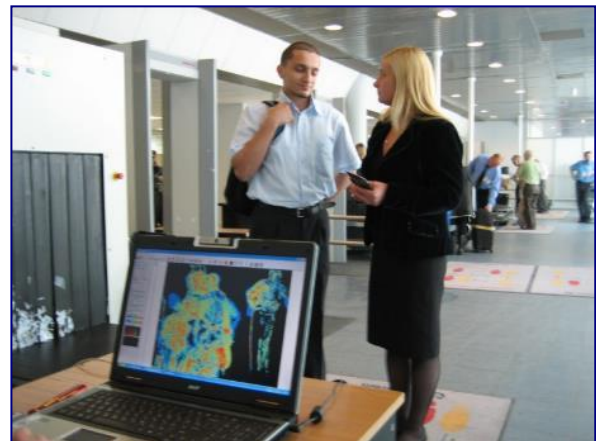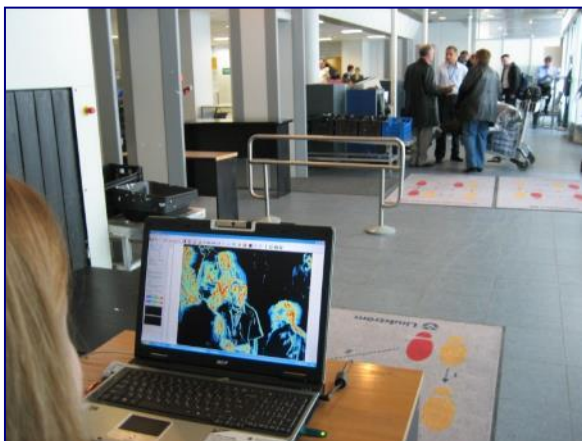※This is a captured image

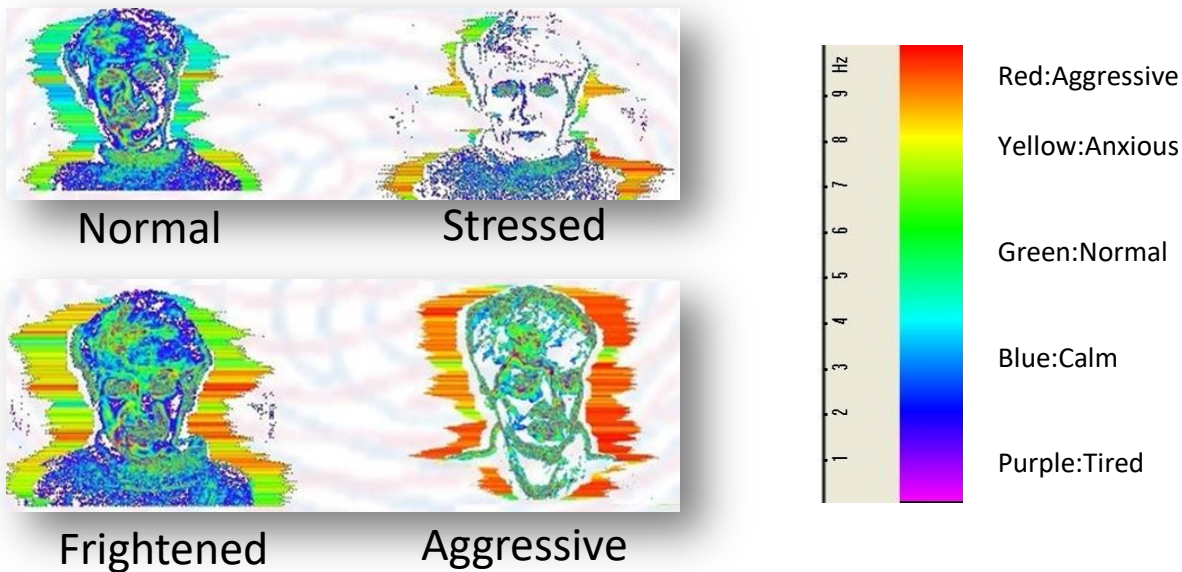# DEFENDER-X

Pre-Crime Surveillance Software

ViNetStatus

63%

リセット

画像

設定

モジュール	
IP	192.168.179.101
TCPポート	5220

ローカル	
TCPポート	5221
UDPポート	5222

警報	
サウンド	はい
画像	はい
クリティカルレベル %	はい

フレームレート	
フレーム数	30.3
高速処理	25.0
ベース処理	12.5

インフォメーション	
N	15
K	1.00
L	150.00
幅	720
高さ	480

統計	
総合N（Am)	0.00000
総合N（F)	6.28604
攻撃性	66.06
ストレス	8.93
テンション	35.40

オーディオ	
レベル	0.0

Displays analysis results within 3 seconds of the suspect coming within camera range and continues to track the suspect individually or from among a group of stationary or moving people. No need for collation with a database. All operations are possible with only your PC. Defender-X detects suspects who show subtle physiological factors indicating suspicious behavior and may be in need of further verification, surveillance or inspection.

This proprietary software was developed based on data analysis of over 100,000 subjects for approximately 200 different undetectable patterns of mental/emotional states to enable the visual display of frequency and vibration magnitudes of the entire human body.
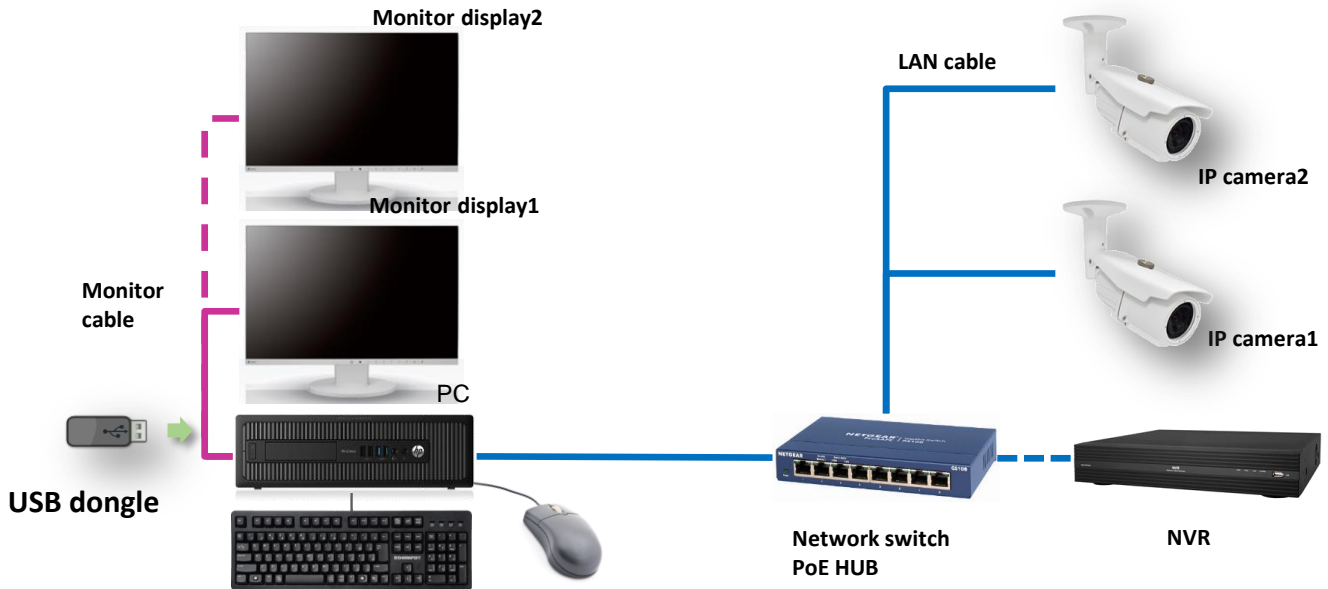

Normal   Stressed

Frightened   Aggressive

Red:Aggressive

Yellow:Anxious

Green:Normal

Blue:Calm

Purple:Tired

DEFENDER-X
The Advantage for Security and Investigations

1. Crime prevention is possible by detecting suspicious behavior and tracking the suspect from the point of entry. Unlike conventional surveillance systems, Defender-X is able to indicate high possibility suspects within 3 seconds of video capture.

2. Unlike conventional surveillance systems, DEFENDER-X has no need to collate data with an outside database. Its analysis results are displayed on the monitor, and the system continues the mark and track the suspect within camera range.

3. Suspects can be detected individually or from among a group of stationary or moving people.

4. DEFENDER-X aids in post-crime investigation with its ability to analyze pre-recorded video image.

5. Effective for exterior security and point of entry as well as for internal surveillance inside exchanges, ticketing booths, cashiers or for in-store theft prevention.

6. Ideal for schools, hospitals, malls, terminals, entertainment venues, public facilities, and private events as well as for VIP security and checkpoints.

7. Affordably priced and cost effective.

8. Product warranty ncluded.

9. Made in Japan

After installing DEFENDER - X on the PC, DEFENDER - X will be activated by connecting the USB dongle to the PC itself.

2 cameras maximum, depends on the specifications of CPU/Memories

Monitor display2

LAN cable

Monitor display1

Monitor cable

IP camera2

IP camera1

PC

USB dongle

Network switch
PoE HUB

NVR

Operating environment of DEFENDER-X

Time for analysis :
2 seconds or more（Improve accuracy over 5 seconds）

SIZE：
Larger than 100 x 200 pixels on VGA image, 10 people or less on a screen

ILLUMINANCE：
should be 400-600 Lx on the surface of the subjetcs

Camera installation environment：
Camera installation to a position where a small number of visitors can be caught by a large subject from the front like security gate, ticket gate, entrance of facility etc.
Operate in an environment where the camera itself does not vibrate due to the influence of wind etc.
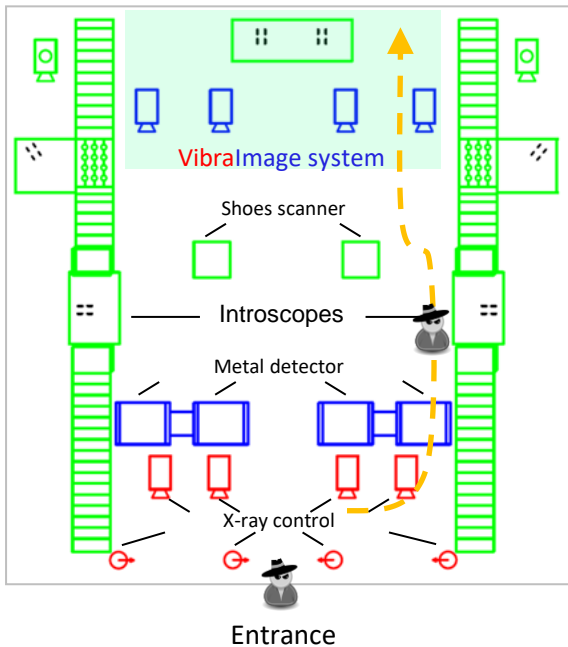
Operational environment :
Red frame on screen, immediate and seamless relay to digital caution and/or any type of alert

It was actually used at the entrance gate and each competition facility at the Sochi Olympic Games in 2014 and it made a remarkable result.

Number of pavilions : 17（262 GATE）
Number of surveillance cameras : 262units（1units/GATE）
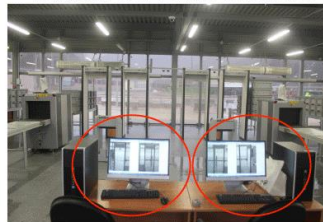Number of systems : 131systems（2 cameras/systems）

Map of the checkpoints

VibraImage system
Shoes scanner
Introscopes
Metal detector
X-ray control
Entrance

Parallel arrangement of metal detectors

Cameras for analysis

1台のシステムで2台のカメラ映像を解析

実際の検査/解析状況

44.9   42.4
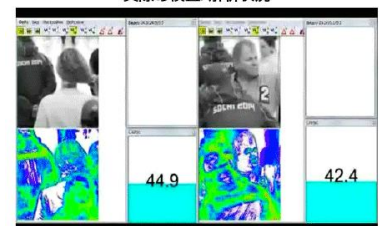
Analyze two camera images with one system

Actual analysis images

Verification results
(announced by Russian government agencies)

Total number of visitors：2.7 million people（Peak time： 120 thousand people/1day）
Number of people who passed through each security check area： 1,200 people/1day（Peak time）
Number of detected persons security check area： 5〜15people/1day
Number of persons detected at all gates : 2,600people/1day

９２％ of detected persons Rejected to enter

Illegal possession----------------------- ７２％
Abnormal behavior------------------------ ８％
Other-------------------------------- ２０％

False Rejection Rate= ８％ of the detected persons were permitted to enter(Percentage of falsely detected normal persons)

FAR is considered to be ０％ because there was no terrorism or other criminal actions during the Olympic period.

Recommended Locations for Installation

Airport

DEFENDER–X is being effectively used in numerous international airports and transportation terminals worldwide. Airports, harbors and other transportation terminals are ideal locations for installation. The system is used as well for internal security inside baggage handling areas to prevent theft and tampering.

Event

DEFENDER-X has been used successfully at such events as the Sochi Olympic Games, the Ise Shima Summit and others. It is used to provide additional security for VIP events.

For external and internal surveillance of public facilities, malls, transportation terminals, and cashier and exchange counters.

Hospital

Ideal for prevention or investigation of crime, accidents and theft in such facilities as hospitals and clinics. Abnormal behavior of patients or stressed mental state of staff can be detected or saved automatically for later viewing and analysis.

School & Each facility

School safety is heightened with the installation of DEFENDER-X. Peripheral surveillance, entry screening and internal surveillance ensures analysis of the emotional state of students, staff, personnel and visitors to enable timely execution of security measures.

OPERATIONAL ENVIRONMENT & REQUIRED SPECIFICATIONS

SYSTEM

Time for analysis	2 seconds or more
Number of connectable cameras	2 cameras maximum, depends on the specifications of CPU/Memories
Output when detecting suspicious	Red frame on screen, immediate and seamless relay to digital caution and/or any type of alert
Operational environment	1) SIZE; Larger than 200 x 200 pixels on VGA image, 10 people or less on a screen 2) ILLUMINANCE; should be 400–600 Lx on the surface of the subjetcs 3) STABILITY; The camera must be stably settled

CAMERAS

Compatible cameras	Web cameras, IP cameras, and analogue cameras with encoders
Connect with IP cameras	Any IP cameras with ONVIF profile S
Connection format	IP cameras with ONVIF [H.264 is preferable]
Necessary resolution	At least VGA [640 x 480]
Necessary frame rate	25 fps or better under PAL standard; 30 fps is ideal under NTSC standard

PC, please also see the next page

Required specification	Core 2 Duo or better, Core i7 is recommended when connected 2 cameras [in Sochi Olympic Games; Core i7, 2.93GHz, 4GB]
Compatible OS	Windows XP/Vista/7/8/10

Product Summary

・DEFENDER-X Software

・Operation key（USB）

Recommended PC spec

・ Above DirectX 9.0 ＊Unnecessary applications are not installed
・ A newer generation CPU than CPU Corei7 4790 Haswell
・ CPU Clock more than 3.6GHz
・ RAM DDR3 more than 8GB
・ HDD with space more than 100GB
・ USB2.0 with 2 ports or more
・ PCI with 1slot(option）
・ Video capture WDM compatible video device
・ Audio capture device（16bit data 44.1kHz stream frequency support）
・ Network with more than100BASE-TX

・This product does not include the personal computer body. If necessary, we will give advice on an operable PC
・System administrator training is carried out when introducing it. We will inform the management supervisor about the basic operation and maintenance.
・When a defect is found within 1 year after delivery regarding the obvious error or the bug of this product, we will exchange it for one without defect.
・This product is not displaying price due to open price.

Authorized Distributor

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