



GORGON2

EMP Shield Tech Lab Inc. / Yuya Ishikawa

Anti-EMP Electromagnetic Shielding Business



PRODUCT INFORMATION

GORGON2

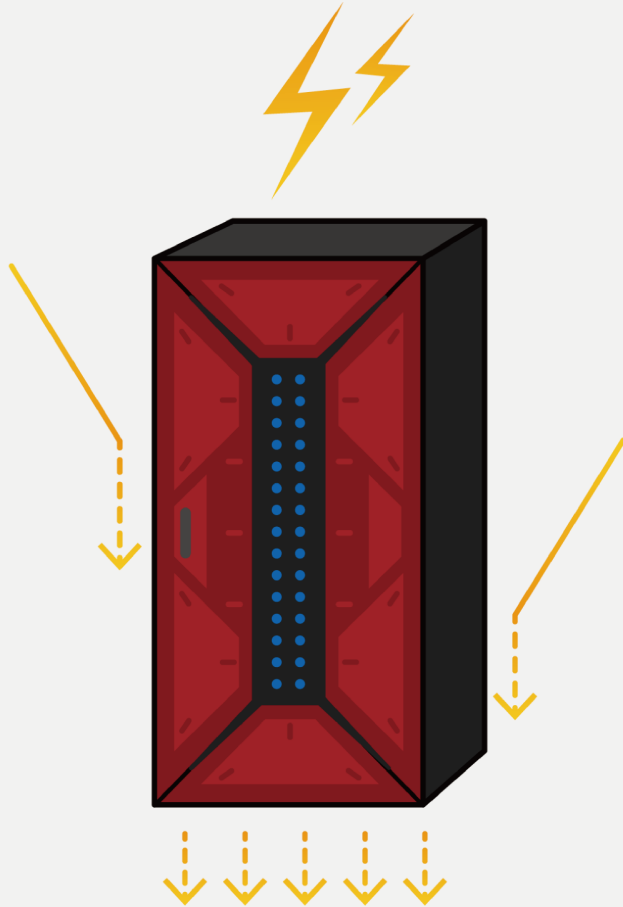
- Equipped with the world's most advanced electromagnetic shielding technology.
- Can be deployed on small servers.
- Designed to provide electromagnetic shielding for the entire server room.
- One unit can accommodate approximately 20 servers.
- Custom sizes are available to match the environment in which they will be installed.



SHIELD TECHNOLOGY- COMPETITOR COMPARISON

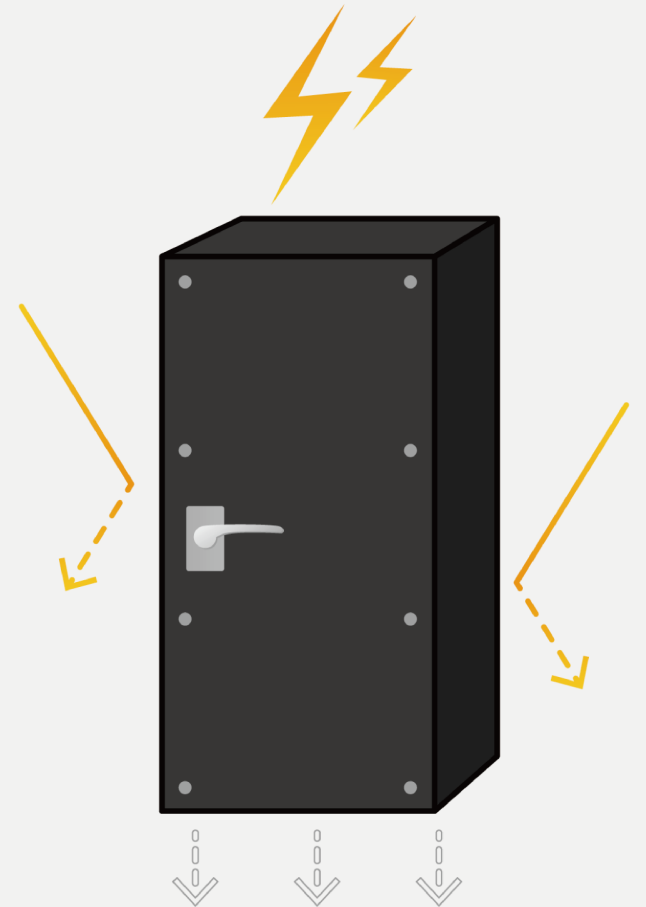
GORGON2

Acts as an antenna.
Strong against
low-frequency
electromagnetic



Competitors' products

Blocking
electromagnetic wave.
Depending on material.
Difficult against
low-frequency
electromagnetic wave.



COMPANY PROFILE

Company

Electromagnetic Shield Tech Laboratory Co., Ltd.

Address

7-20-6 Shinjuku, Shinjuku-ku, Tokyo

CEO

Yuya Ishikawa

Technical Consultant

Osamu Sugihara

Capital

19.9 million yen

Register date

December 2008

TECHNICAL ADVISOR INTRODUCTION

Introduction

Born in Hokkaido in 1959. Since 1995, he began evaluating, designing, and developing security software, and has obtained many international patents since 1998. He served as director of the Electromagnetic Shield Research Lab and is currently appointed as a technical advisor. He is a leading expert in cyber security and countermeasures against electromagnetic attacks, defenses, and electromagnetic waves.

Patents

- In 1998, Network Monitoring Software "MAAT" Patent No. 4220680
- Stealth Agent Patent No. 4406171
- In 2001, we developed the 4282913 patent for the electromagnetic wave shield rack "GORGONS".

Activities and development achievements

- Internal Information Leakage Prevention System (MAAT) adoption results; JDA,JMSDF,Ibaraki Pre-gov
- Internal Information Leakage Prevention System (Stealth Agent) Kanagawa University, Suruga Bank



-MISSION-

**Safety in the digital
society**

Business Overview

- Provision of server infrastructure services using electromagnetic shielding effective for anti-EMP countermeasures
- Server defense measures are needed as cloudization progresses rapidly
- It has already been introduced by the Ministry of Defense, etc., and its effectiveness has been proven

Patented for electromagnetic shielding

Patent No. 4282913 acquired in 2009 "Server Rack"

- ・ Related patents related to the above will be filed soon (2021/12~)

■ Implementation (GORGON&GORGON2)



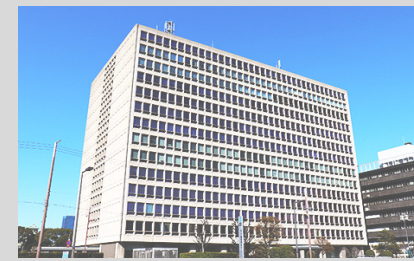
JMSDF



MIC



South Korean Army



NTT West



EMP ATTACK?

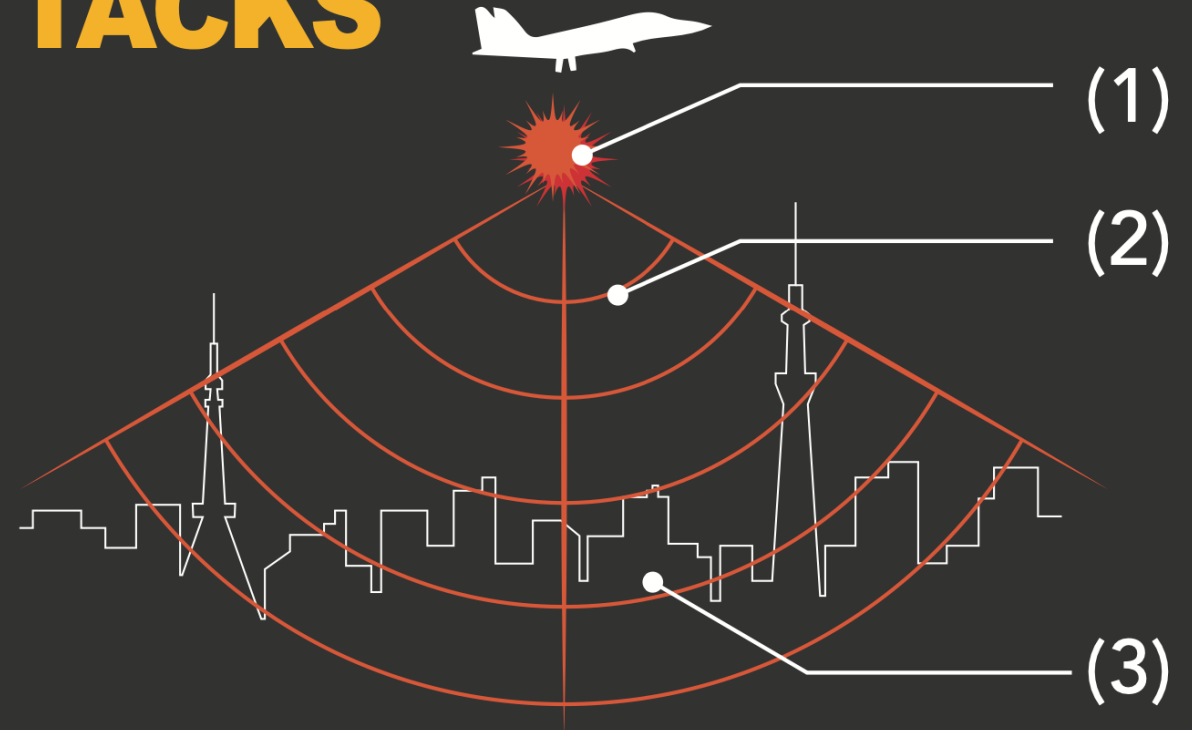
Electromagnetic Pulse Attack

An EMP attack (Electromagnetic Pulse Attack) is a [physical attack that makes](#) any electronic product in the area irrevocable by powerful electromagnetic waves.

It is said that infrastructure will be degenerate for a century, and in recent years, there has been a rapidly growing sense of caution, especially in developed countries.

DETAILS OF EMP ATTACKS

EMP attacks short out and irreparably destroy servers, devices, and other electronic devices which is above and under ground by generating instantaneously powerful electromagnetic waves by means such as nuclear explosions at high altitudes (30 km to several hundreds km).



1.
EMP BOMB etc.

2.
**Instantly generates
powerful electromagnetic
waves**

3.
**server down
Destruction of electronic
equipment**

EXPECTED DAMAGE



Only destroys electronic devices. No to human.



All urban infrastructures heavily depend on electrical equipment.



There are large-scale and local attacks.



THE DIFFERENCE BETWEEN EMP AND CYBERATTACKS

**EMP attacks are physical attacks on the
electronic products.**

Cyberattacks are online attacks not physically.

**Compared to cyberattacks,
EMP attacks are **more lossy and damaging****

EMP attack / Solar Flares

Cyber attack

Attack Object

All electronic devices
in the target area

Data and systems
on the server

Attack methods

Overcurrent due to
instantaneously releasing powerful
electromagnetic waves

Unauthorized access
to the system

Recovery period

Irreparable

Days ~ several years

EFFECTS OF SOLAR FLARES

Natural disasters 2025

Superflares coming Damages estimates trillions of dollars

Electromagnetic Pulse Attack

In the Worst case. For several weeks.

All electric and digital devices become unusable. Anywhere on earth.

PARTNER

Sales agent

Manufacture and sale of GORGON

※UAE, Middle East and Africa have agency agreements in place

JV Recruitment

Joint Venture recruitment

Sales reasoning

Exclusive/Non-exclusive
