

TYPHON[®]

Delivering Dynamic Solutions for Hostile Environments



TYPHON®

Typhon Group Limited is a UK based company specialising in the design and engineering of non-lethal distraction devices together with lightweight, integrated payload solutions for UAS/UGV platforms.

Typhon products are all designed and engineered in house. Collectively, the team at Typhon are experienced at producing solutions for law enforcement and government surveillance environments. This provides a depth of knowledge to allow Typhon's creators to design bespoke solutions for unique and standard operational requirements within hostile environments.

With a portfolio of products, Typhon is primarily designed for military and law enforcement markets. Applications include covert operations, counter terrorism, law enforcement, close protection, aviation and maritime. Our latest developments add additional capability to the UAS and UGV platforms currently in use with military and law enforcement End Users.

TYPHON'S TECHNICAL SNAPSHOT

With negligible smoke or flash and controlled fragmentation by design, Typhon products reduce the risk of personal injury and collateral damage to surrounding property to unprecedented levels when compared to the risks associated with conventional pyrotechnic distraction devices.

Typhon products are durable and promote a stringent safety approach to prevent negligent discharge. Typhon technology has the ability to initiate a minimum of five independent events dependent on product. An event is deemed as an acoustic sound measuring approximately 167dB.

Typhon products can have the acoustic events programmed at time of order. These include:

- Five round bursts - likened to a semi-automatic rifle on burst
- Single shots - five events with random timings
- Shock & awe - all five events going off together
- Individual operational requirements

Optionally, Typhon's unique Reloading Programme across the product range delivers manufacturers 'in life' replacements (subject to contract) reducing down time between reloads and through life program costs.

TYPHON UAS/ UGV PAYLOAD SYSTEMS

**A RANGE OF UAS / UGV
PLATFORM AGNOSTIC,
FULLY INTEGRATED OR
STANDALONE PAYLOAD
SOLUTIONS ARE
AVAILABLE OR UNDER
DEVELOPMENT.**

DESCRIPTION

Typhon is working with a number of Industry Partners – Sky-Hero; Parrot; AVINC; AceCore; Evolve Dynamics and others, to bring both our distraction and an exciting range of additional payload capabilities to the UAS market.

One such payload has been specifically designed to be integrated onto the Sky-Hero LOKI MK2 sUAS platform. System weight and complexity is kept to a minimum for ease of installation / operation. Various options are available for deployment and effect that are controlled through the aircrafts GCS. Overall payload weight (including live distraction cartridge) is below 140 grams.



OPERATION

Depending upon the requirement, the payload can be initiated with a closed contact signal, a positive/negative trigger supplied from the GCS or if required, a separate encrypted RF control system. Payloads are available for:

- Distraction – 167dB x5 events (either single/multi event)
- Glass breaker – up to 42mm double/triple glazed units
- Energetics – under development
- Target illumination/marketing – under development
- CS/pepper cartridge (Country Dependent) – under development

APPLICATION

Integration onto sUAS or UGV platforms to assist with:

- Dynamic / Tactical
- Entry Quick deployment
- Hijack / Hostage
- Recovery
- Anti-Terrorist Operations



TYPHON RF

DISCREET AND CONCEALABLE, RF IS A 'LAYDOWN' DISTRACTION DEVICE ACTIVATED BY ITS DEDICATED RF UNIT.

APPLICATION

RF is specifically designed for law enforcement and military markets. Applications include covert operations, hostage rescue, dynamic/tactical entry and improvised security protection.

POINT OF DIFFERENCE

RF can be laid down totally dormant for an extended time period, until activated by an RF signal from its remote-control unit up to 1km away (LoS). Variants are available allowing up to 8+ base units to be initiated simultaneously.

The unique design means RF can not only be used as a distraction device, but can be concealed beneath vehicles, within premises or along perimeters to offer a rapidly deployed protective system for where improvisation is the key.

TECHNICAL SNAPSHOT

Typhon's design for RF uses 'plug and play' technology which ensures fast and simplified cartridge swap out.



APPLICATION

MoE is primarily designed for law enforcement, military and offender management markets. Applications include covert operations, hostage rescue, offender management scenarios and dynamic tactical entry.

POINT OF DIFFERENCE

The cartridge head of the MoE device can be affixed quickly and efficiently using a number of simple methods, for example magnets, Velcro or tape. The hand controller has an additional input/output port allowing connectivity of other triggers, such as trip wire and pressure mat for added operational flexibility.

MoE can be deployed up to 100m from the controller, initiated with a simple two button activation sequence. MoE can be further enhanced by the RF option allowing the device to be remotely initiated from 1km away (LoS).

TECHNICAL SNAPSHOT

MoE has the ability to initiate up to five independent events.

**MOE IS A
PROGRAMMABLE HAND
CONTROLLER DESIGNED
TO INITIATE ONE
TYPHON CARTRIDGE
AND CAN BE USED IN
VARIOUS SITUATIONS.**



**GMOE COMES IN TWO
VARIANTS DESIGNED TO
BREAK DOUBLE/TRIPLE
GLAZED WINDOWS
WITH MINIMUM EFFORT.**

GMOE has two versions. The first version of GMOE is hand held and hand initiated by a two-stage switching process. The second version of GMOE is RF controlled allowing activation at up to 500m (LoS).

APPLICATION

GMOE is primarily designed for law enforcement, military and offender management markets. Applications include covert operations, hostage rescue and dynamic/tactical entry.

GMOE may also be used by emergency services, for quick access and evacuation. Applications include building/vehicle entry and maritime rescue.

POINT OF DIFFERENCE

GMOE is easily stuck to the window and is activated by wireless remote control.

GMOE is handheld and when activated makes light work of breaking 10mm thick toughened safety glass.



TECHNICAL SNAPSHOT

Both GMOE variants have the ability to instantly break double/tripled glazed windows up to 42mm thick and single pane 10mm thick.

Typhon's unique Reloading Programme for GMOE delivers manufacturers 'in life' replacements (subject to contract) reducing down time between reloads.



GMOE

ZETA

APPLICATION

Zeta is primarily designed for law enforcement, military and offender management markets. Zeta's size and shape is ideal for concealment by both armed and unarmed operators. Applications include officer safety, close protection, covert operations, hostage rescue, maritime anti-piracy and dynamic tactical entry.

POINT OF DIFFERENCE

Zeta is ambidextrous and initiated single-handedly. The covert design bears no visual resemblance to a typical pyrotechnic distraction device. This fact enables it to be deployed discreetly without any traditional actions (pulling the pin) which could pre-warn others of the events developing, giving the operative a significant tactical advantage.

TECHNICAL SNAPSHOT

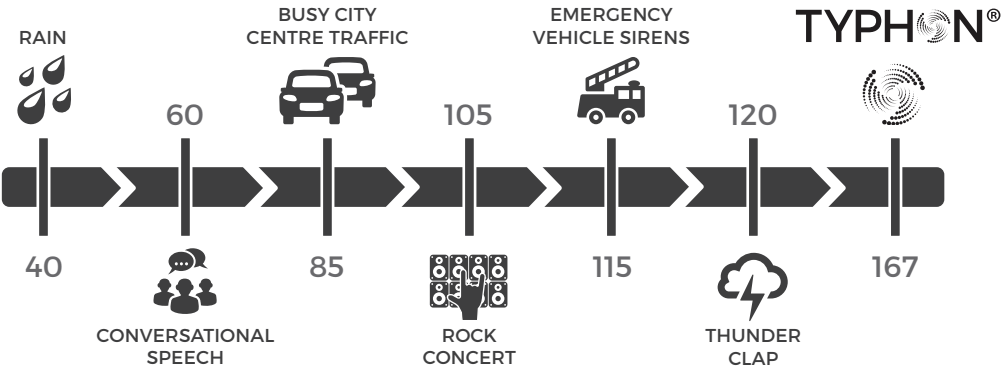
Zeta promotes a double safety approach to prevent negligent discharge.

**A COVERT,
HAND HELD
DISTRACTION
DEVICE - ZETA IS
TYPHON'S
REINVENTION OF A
TRADITIONAL
PYROTECHNIC
DISTRACTION DEVICE.**



TYPHON®

HOW LOUD IS LOUD?*



*All figures in dB at 1m

Further information can be obtained from info@typhondistracton.com.

Typhon in non-riot control variants is not listed for export control by the UK authorities. The purchaser is responsible for assessing against their own National Export Authorities Legislation.

Typhon is not defined as a firearm or ordnance in most countries and territories and ships under UN0432 Articles Pyrotechnic, Class 1.4S.

Typhon products are UK designed and built.

Typhon will not authorise products to be marketed to any country, state or individual subject to sanctions or embargoes applicable to Great Britain and Dependent Territories.

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