

HPEMcase

Non-Lethal Effector Systems for the Protection
of Persons and Buildings





High Power ElectroMagnetics



HPEM is a new technology to disturb electronics. The emission of short electromagnetic pulses influences command and information facilities, control centers, surveillance installations as well as all kinds of electronics whereas the generated electromagnetic field does not pose a hazard to human beings and animals. Radiation stays below international limits.

HPEMcase Standard F

HPEMcase Standard F (fixed) is a compact, autonomous und mobile system. The standard version acts as a 360° emitter with a fixed frequency range, optimized for special operation forces. The system may be equipped with a reflector, which is delivered together with the system, to allow directed operation, thus increasing the effect in the direction of the target.

HPEMcase Standard T

In contrast to the fixed-frequency version, HPEMcase Standard T (tunable) is able to emit a variable frequency range. So it is ideal for impact analysis on electronic targets. It has been designed as 360° emitter.



HPEMcase Lab



Scope of delivery
HPEMcase Standard T

HPEMcase Plus F HPEMcase Plus T

The HPEMcase Plus models offer all characteristic data of the standard versions but additionally up to 50% more field strength and range. They are especially suited for the destruction of bugging devices.

HPEMcase SWAT

HPEMcase SWAT is similar to the Plus F version, is however equipped with a reflector integrated into an inconspicuous suitcase. This system is especially suited for SWAT teams and delivered with radio control for activation.

HPEMcase Lab F HPEMcase Lab T

The HPEMcase Lab System has been developed as a modular test source for laboratories. It is destined for demonstrating and analyzing electromagnetic effects and for proving EMC hardening. The HPEMcase Lab source is mounted in a suitcase and able to emit variable or fixed frequencies. The power supply unit placed in a separate 19" rack enables the user to choose a pulse repetition rate from 1 up to 100 Hz. Customer-specific requirements may be incorporated.

Fields of application:

- Protection of persons and buildings
- Applications: SWAT / special operation forces
- Counterintelligence → combatting electronic eavesdropping
- Studies, field tests (EMC) and impact investigations

Technical Details:

Data	Type			
	Standard F	Standard T	Plus F/Plus T	Lab F/Lab T
Dimensions of source	500x410x200 mm ³			500x410x200 mm ³
Dim. of power supply	Integrated	Integrated	Integrated	1000x550x820 mm ³
Mass of suitcase	23.5 kg	24.5 kg	32 kg	26 kg
Mass of power supply	Integrated	Integrated	Integrated	100 kg
Frequency range	~ 350 MHz	Approx. 120 .. 280 MHz	Like F / T	Like F / T
Power supply	2 x 14,8 V Li-Ion-rechargeable battery; 6.6 Ah			3 x 12 V lead-gel battery 56 Ah
Radiation pattern	Dipole characteristic (360°) or directed with reflector at an angle of ± 45°	Dipole characteristic (360°)	Like F / T	Like F / T
Pulse repetition rate	10 Hz		10 Hz	Adjustable 1..>100 Hz
Battery life	30 min		15 min	Up to 15 min at 100 Hz (not continuous)
Scope of delivery	HPEMcase External power supply with cable set (only Lab) Control unit with 10 m fiber-optic cable Rechargeable battery + spare battery (Lab: installed 19" battery insert) Battery recharger Tripod (Corner reflector)*			

*only for Standard F, Plus F and Lab F

Subject to change without notice.

We would be very pleased to support you in case you have any questions concerning our products or technologies.

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