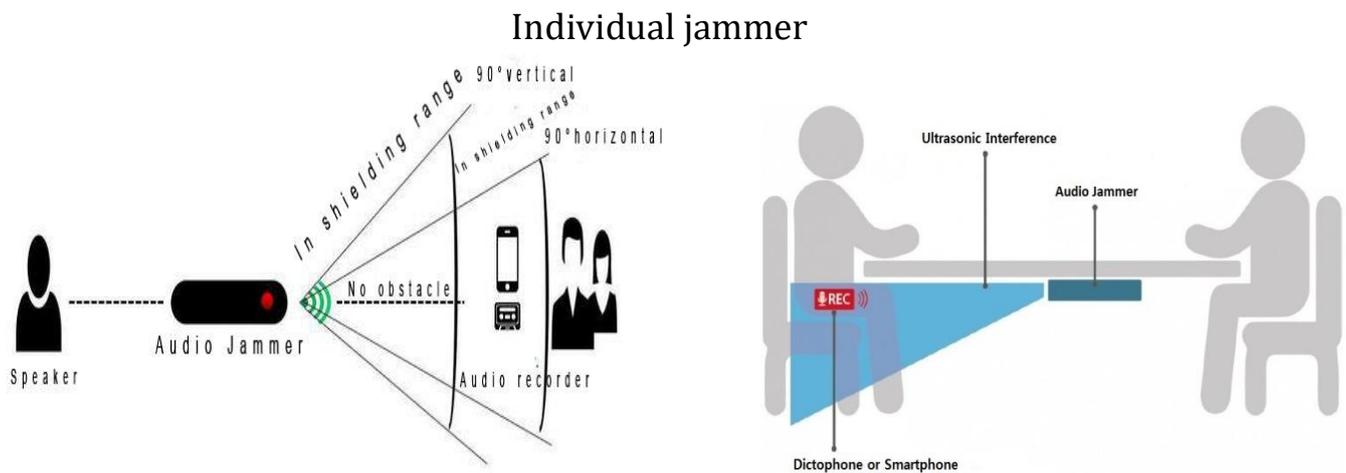# USER MANUAL

- The supersonic jammer devices do not cover all the cellphones or bugging devices. For instance, they do not affect simple Nokia phones because they completely filter the high frequencies but smartphones and other recorders can be effected depending on their circuit from low to high and in a distance of 0.5 to 7 meters (in the covering angle of the device) and the effect is different for each recorder or phone.

- The common RF jammers are useful for blinding antennas and supersonic jammers are good for microphones. If a bugging device is only recording voice, an RF jammer will be no more useful, and an acoustic jammer is a suitable choice. Also, supersonic acoustic jammers do not cover all the phones or recorders, therefore, the combination of RF jammers and the supersonic acoustic jammer is the best way to ensure security against bugging devices.

Radiation pattern:

Individual jammer

Collective jammer

- A report of the impact of jamming by supersonic jammer on several different phones is brought in the below section. The level of the jamming of each phone at a distance of 0.1 up to 5 meters in the area of direct radiation is brought in the below chart which consists of four sections: strong, medium, weak, very weak jamming. For example, the jamming on the Samsung E7 is strong, meaning that up to 5 meters, the sound recording function or the sound system of this phone is completely disrupted.

very weak	Weak	medium	Strong	Phone model	very weak	Weak	medium	Strong	Phone model
		*		LG V20				*	Samsung E7
	*			LG 0168				*	Samsung A3
		*		iPhone 6S				*	Samsung J7
	*			GLX (shahin)			*		Samsung J5 prime 2012
*				Simple Nokia		*			Samsung J5 2015
			*	Sony Xperia				*	Samsung J5 2016
			*	Sony Z5	*				Samsung J3
			*	Card Recorder			*		Samsung J2
		*		Flash Recorder				*	Samsung J1 mini prime
							*		Samsung Jt 6552
							*		Samsung S8
								*	Samsung grand prime pro
					*				Huawei J510
						*			Huawei G750
						*			Huawei GT3
						*			Huawei Y360
								*	Huawei Y6 2019