

Mobile Hardening

Safeguarding smartphone cameras and microphones from unwarranted surveillance.

The SafeCase offers first-of-its-kind defense against the misuse of a mobile device's cameras and microphones. Integrated audio masking and camera blocking keep valuable audio and visual data in the mobile device's vicinity from being captured via mobile spyware or rogue insiders.



Unparalleled protection against audio and video surveillance.



**INTELLIGENT
AUDIO MASKING**



**CAMERA
BLOCKING**



**USER
ACCOUNTABILITY**



**VERIFIABLE
PROTECTIONS**



PRIVORO®

Mobile Hardening

The science of on-device audio masking

A patented process that ensures protection

Similar to how white noise machines drown out the audio in a room, the SafeCase adds noise at the locations of the paired mobile device's microphones. The end result is that the mobile device is essentially deafened, burying any meaningful audio content beneath the noise floor of the masking signal.



To ensure that captured audio is useless to digital eavesdroppers, the noise added to the audio mix has the following three characteristics:



RANDOM

The noise for each microphone is generated using a true random number generator (TRNG), preventing the use of known patterns or two-channel adaptive filtering techniques to extract voices from captured audio.



MICROPHONE-SPECIFIC

A distinct masking signal is used for each of the mobile device's microphones, preventing the use of cross-correlation or known pseudo-random patterns to extract audio from the masked output.



ADAPTIVE

The level of audio masking adapts to the volume of the audio in the mobile device's vicinity throughout the range of human speech, meaning that everything from a whisper to a shout is discreetly masked.



PRIVORO®