

Police Assistance Device (PAD)

Section 1: Abstract

Today we live in a world where buying a gun or weapon can be done as easily as walking into a local pawn shop; one person has the power to cause immense destruction. While protecting the public from these people, one police officer on average dies every 61 hours. Along with the numerous deaths of these police officers, many other innocent lives have been lost in responding to these dangerous situations.

The Police Assistance Device (PAD) will give critical information through the use of visible light waves, terahertz light waves and artificial intelligence. Metamaterials will emit terahertz waves and eliminate the moving parts of the camera by bending light waves for a wider angle of imaging. Today's body camera only records, whereas our future device will provide information and assist with decision support. Our vision is to ensure the safety of everyone involved in any incident.