

# Novel Hidden Camera Destroyer using Electromagnetic Pulse

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**Abstract**—In today's world we are surrounded by the most sophisticated & hi-tech microprocessor & microcontroller technology, which controls transport, finance, Electricity, Communications, etc. An EMP (Electro-Magnetic Pulse) has the destructive tendency to devastate any electronic equipment in its specified path range, causing electronic equipment to burn out. With the continuous development, use & dependability of modern day equipment, it is almost impossible for us go back from the current microelectronic generation. This makes the Electro-Magnetic Pulse one of the most deadliest & Terrifying weapon in the world causing huge collateral & infrastructural damage to any nation & her interests. This paper includes all the bases of Electro-Magnetic Pulse generation & it's possible causes & effects on the nearby electronic components within its specified range capability. Along with miniature prototypes that are developed, so as to demonstrate the effect of Electro-Magnetic Pulse on various smart & dumb devices & their consecutive role in Modern Warfare as Directed Energy Weapons (DEW's). Currently, there is a lot of research going on the Electro Magnetic Pulse phenomenon. Scientists in military & defense organizations around the world are working on the EMP Technology & its application as a weapon in Military Warfare. There is even subsequent research going on in the shielding of crucial electrical & electronic components against an EMP attack. The current EMP shields developed can only prevent a small amounts of Electro-Magnetic Pulse. However, a perfect shield against an EMP attack of huge intensity is still not devised, although Ferro-Magnetic cages provides a protective shield against an EMP strike. However it's nearly impossible to realize every structure, building, Electronic gadget or vehicle shielded by Ferro-magnetic Cages. As it doesn't only cause inconvenience in its installation but even has a huge initial capital coast for its total installation, hence doesn't make it economically viable to construct.

**Keywords**—Calibrated Devices; Defense Organizations; ElectroMagnetic Pulse; Hidden Camera Destroyer; Military Warfare.

**Abbreviations**—Directed Energy Weapon (DEW); Electro-Magnetic Pulse (EMP).

## I. INTRODUCTION

IN the existing system the hidden camera cannot be identified specifically. The system has the ability to only send out a jamming radio frequency of the camera. This is only effective on the wireless camera only, the device is expensive and cannot be afforded by everyone, the device does not get destroyed and is temporarily jammed. Here the EMP device is made which destroys the device permanently and is effective in almost every field both civilian and military purpose [Prather et al., 1; Adrian Kreth et al., 2].

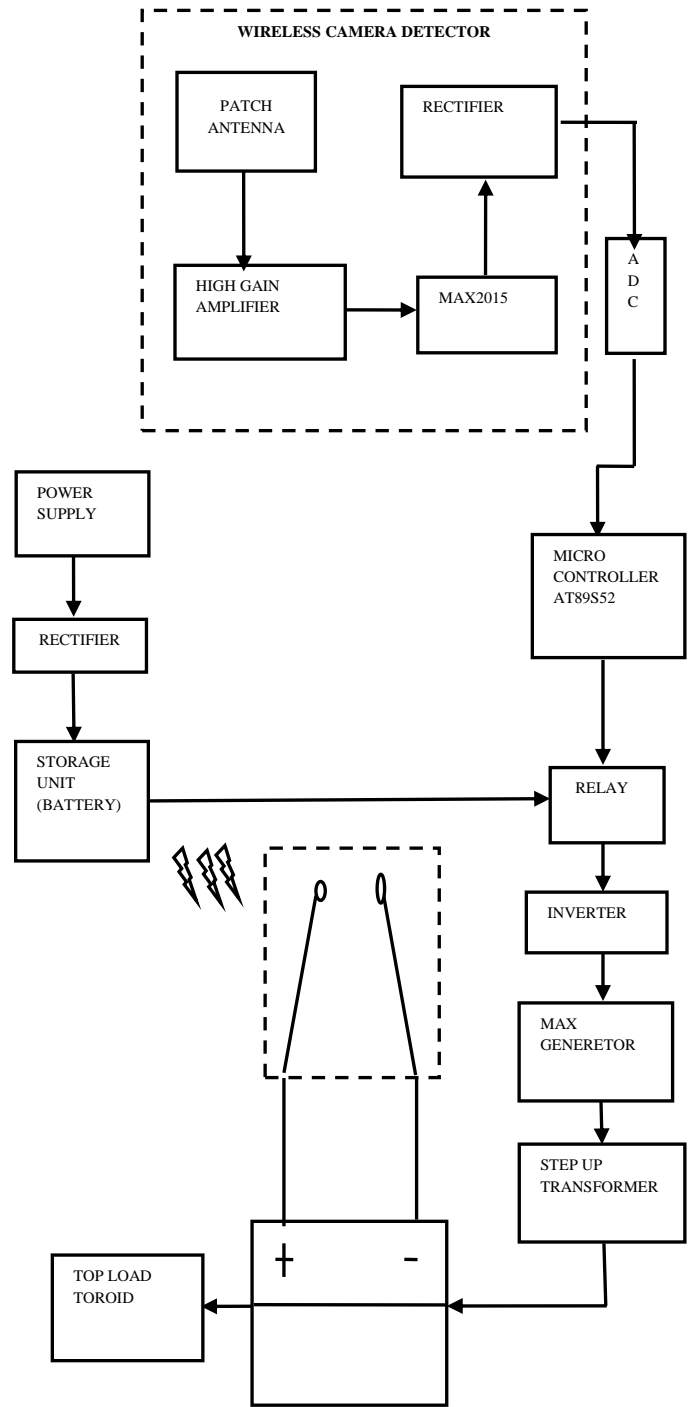
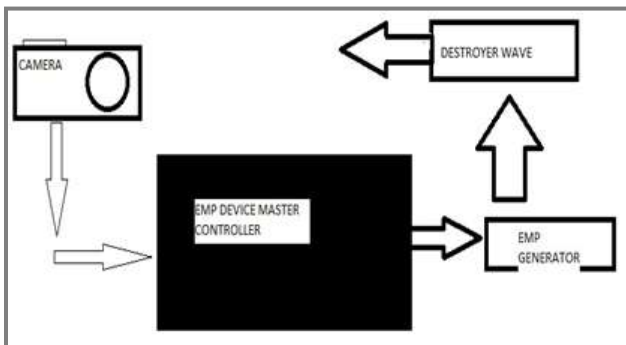
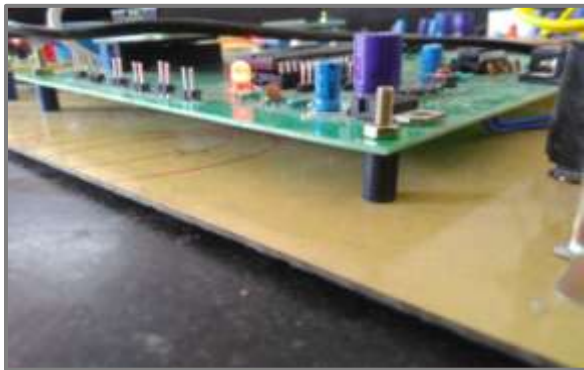
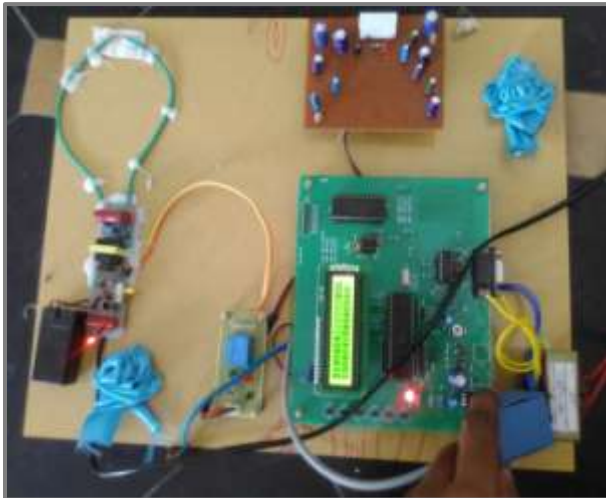
### 1.1. Disadvantages of Existing System

1. Device still works after the signal is switched off
2. Works on only wireless camera
3. Highly expensive [Brauer et al., 3]

## II. PROPOSED SYSTEM

The Proposed system behind this paper is to analysis and designing of EMP Devices along with their shielding mechanisms and also EMP detection sensors is to counter the threat as well. The main strategy behind it is to provide an EMP strike on anything that contains microelectronics which includes enemy vehicles, Electric Power Grids, SCADA, Telecommunications, Transport Systems (Airplanes, Trains, & Buses) etc, so as to make their electronic circuits to terminate its functionality and cause catastrophic malfunctioning in their circuitry, which would either damage them permanently or temporally or reduce their lifespan. EMP Devices are classified under Directed Energy Weapons (DEW's) category. A directed-energy weapon (DEW) emits

energy in an aimed direction without the means of a projectile [Holt et al., 4; Mayes et al., 5]. It transfers energy to a target for a desired effect. Intended effects may be non-lethal or lethal. EMP Devices can be utilized as effective means of attack against type of system, vehicle or communication system containing microelectronics in it. Which form the Pillars of the initial attack strategy of any nation just before the full attack is commenced. Now the research goal lies on the fact of constructing & designing such devices & studding their behavior with both smart & dumb devices. This provides the major backbone in its application in security projects [John D. Kraus, 6; Klopfenstein, 7; Moullin, 8].



### III. CONCLUSION

The device is basically designed to takeover multiple scenarios, here it serves as a hidden camera destroyer [9; Viren Pereira & Kunkolienkar, 10]. The device with further calibrations can be even used in multiple military and defense on sides with law and order the less power calibrated devices can be used by the civilians for personal protection, hence with this device we can bring a halt to the immoral trafficking.

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