WELCOME TO ALL
SEMINAR ON CELL PHONE JAMMERS
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INTRODUCTION

- Cell phones are used everywhere in these days.
- Blocking mobile frequency from 5 to 200 meters radius.
- Jammer is a device to help you keep away from noise or disturbance of cellular phone calls.
- Phone Jammer is suitable in executive offices, board meetings, conferences, seminars, libraries, cinemas, religious places, public transport, concert halls, restaurants and educational institutions etc.
Disturbing a cell phone is the same jamming

Cell towers divided a city into small areas

A jamming device transmits on the same radio frequencies as the cell phone

- It's a called a denial-of-service attack. The jammer denies service of the radio spectrum to the cell-phone users within range of the jamming device.
MOBILE BLOCKER

- Features
- Benefits
- Functions
HOW IT WORKS

- Jamming devices overpower the cell phone by transmitting a signal on the same frequency
- Cell phones are full-duplex devices
- Less complex devices block only one group of frequencies
- The actual range of the jammer depends on its power
- Some cell-phone jammers are made to look like actual phones
INSIDE A CELL PHONE JAMMER

- **Circuitary**
  - Voltage-controlled oscillator
  - Noise generator
  - RF amplification

- **Antenna**
  - Every jamming device has an antenna to send the signal

- **Power Supply**
  - Smaller jamming devices are battery operated
CELL PHONE JAMMER DEVICES

1) HIGH POWERED POCKET SIZED CELL PHONE JAMMER

Effective range: Up to 20 meters radius, depending on the strength and type of cellular system

Input power: 4.8V DC Ni MH battery pack

Output signal strength: 100mW

Operation temperature: -10°C to +50°C

Humidity: 5% to 80%

Size: L 90 x W 49 x H 29 mm

Weight: 190gm
2) XT-5000 CELL PHONE JAMMER

- **Frequency Band**
  - 800-964 MHz
  - 890-964 MHz
  - 1.700-2.200 MHz

- **Effective range**
  - XT5000 up to 30 meters radius
  - XT6000 up to 40 meters depending on the strength and type of cellular system

- **Input power**
  - In-built Ni MH battery pack

- **Output signal strength**
  - XT5000: 900mW
  - XT6000: 1,400mW

- **Operation temperature**
  - -10°C to +50°C

- **Humidity**
  - 5% to 80%

- **Size**
  - L 110 x W 60 x H 30 mm

- **Weight**
  - 250gm

This is a very high-powered pocket sized cell phone jammer that will disable all cell phones in all countries.
3) CXT-CELL PHONE JAMMER (OR) 3WATT DIGITAL CELL PHONE JAMMER

it will prevent any one in the surrounding area operating mobile phone.

<table>
<thead>
<tr>
<th>Frequency Band</th>
<th>860 - 885 925 - 960 1800 - 1990MHz</th>
</tr>
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<tbody>
<tr>
<td>Effective range</td>
<td>Up to 40 metres</td>
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<tr>
<td>Input power</td>
<td>12v DC</td>
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<tr>
<td>Output signal strength</td>
<td>3 watts</td>
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<tr>
<td>Operation temperature</td>
<td>-10c to +70c</td>
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<tr>
<td>Humidity</td>
<td>5% to 80%</td>
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<tr>
<td>Size</td>
<td>L 147 x W 126 x H 44 mm</td>
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<tr>
<td>Weight</td>
<td>0.8Kg</td>
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<tr>
<td>Frequency Band</td>
<td>Output Signal Strength</td>
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<tr>
<td>----------------</td>
<td>------------------------</td>
</tr>
<tr>
<td>860 - 885 MHz</td>
<td>32 watts</td>
</tr>
<tr>
<td>925 - 960 MHz</td>
<td></td>
</tr>
<tr>
<td>1800 - 1990 MHz</td>
<td></td>
</tr>
<tr>
<td>2100 - 2200 MHz</td>
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</table>

This is an ultrahigh powered cell phone jammer.
WHERE ARE CELL-PHONE JAMMERS USED?

• Cell phone jamming devices were originally developed for law enforcement and the military to interrupt communications by criminals and terrorists.
• It has been widely reported that a cell-phone jammer thwarted an assassination attempt on Pakistani President Musharraf in December 2003.
• Country Club
• Sporting Events (tennis, golf, etc.)
• Law Enforcement Facilities
• Military Installations
• Mobile Phone Prohibited Entries
THE LEGAL ISSUES

In the United States, United Kingdom, Australia and many other countries, blocking cell-phone services is against the law.

- It also represents a safety hazard because jamming blocks all calls in the area, not just the annoying ones.

- In most countries, it is illegal for private citizens to jam cell-phone transmission.

- India has installed jammers in parliament and some prisons.
ALTERNATIVES TO JAMMING

- Passive cell phone blocking means using things like wallpaper or building materials embedded with metal fragments to prevent cell-phone signals from reaching inside or outside the room.

- Companies are working on devices that control a cell phone but do not "jam the signal."

- Cell-phone alerter are available that indicate the presence of a cell-phone signal.
ADVANTAGES

- Provides Acoustic Isolation
- Protect Against Breach Of Security Policy
- Prevent Accidental Eavesdropping
- Protect Against Intentional Eavesdropping
CONCLUSION

The increased technology of the cellular phone has made life convenient and easy. However in some situations this convenience becomes a nuisance to other people. Areas such as concert halls, conference rooms and theaters are where this nuisance is felt the most.

- Cell-phone users don't know they're being jammed. The phones just indicate that there's no service or no signal from the network. The jammer simply interrupts the phone's ability to establish a link with the nearest cell-phone tower.
Thank you, Rajini Royal, for an amazing presentation. Thanks to all!