



WELCOME TO ALL

A cluster of glowing blue jellyfish is centered in the image. The jellyfish have a translucent, glowing blue appearance with visible internal structures like tentacles and bells. They are set against a dark, almost black background with some subtle blue ripples at the bottom, suggesting an underwater environment. The overall lighting is a cool, monochromatic blue.

**SEMINAR ON
CELL PHONE
JAMMERS**

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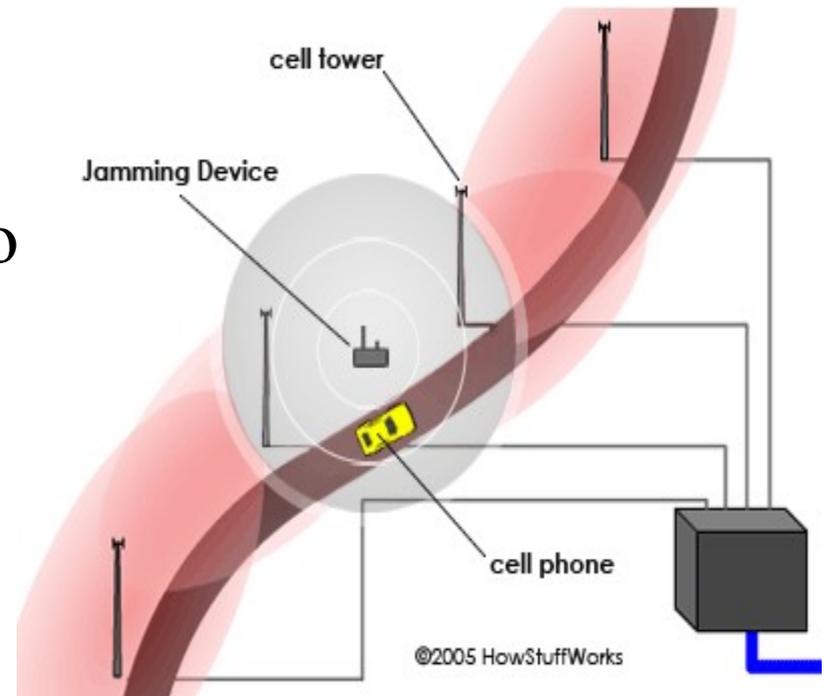
INTRODUCTION

- ▶ 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.



JAMMER BASICS

- ▶ 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 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.
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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
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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



**High power
100Mw version**



3) CXT-CELL PHONE JAMMER (OR)3WATT DIGITAL CELL PHONE JAMMER

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

Frequency Band	860 - 885 925 - 960 1800 - 1990MHz
Effective range	Up to 40 metres
Input power	12v DC
Output signal strength	3 watts
Operation temperature	-10c to +70c
Humidity	5% to 80%
Size	L 147 x W 126 x H 44 mm
Weight	0.8Kg





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.

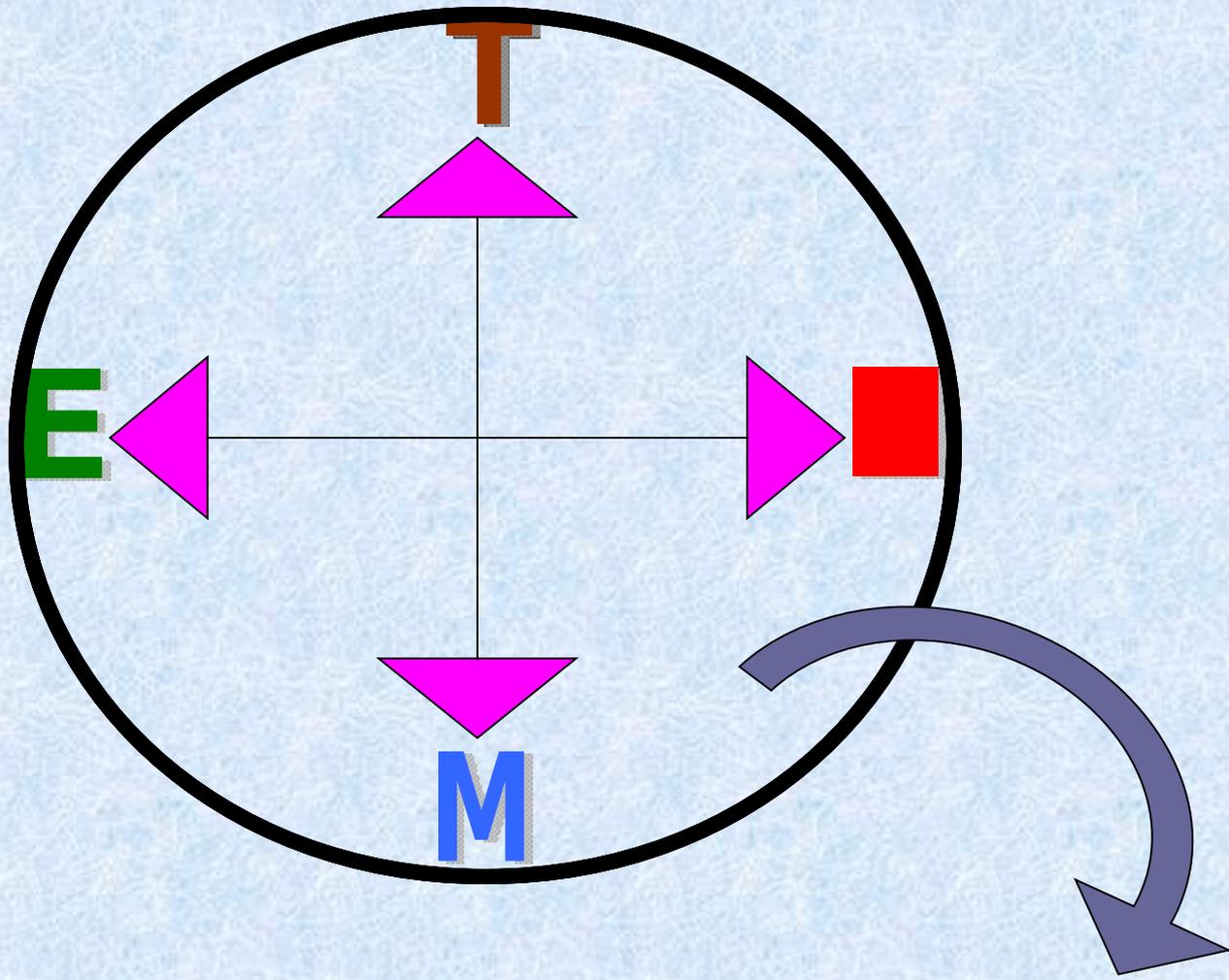
ADVANTAGES

- ❖ 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.



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Thanks 2

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