

Microwave Through Wall Detection Technology

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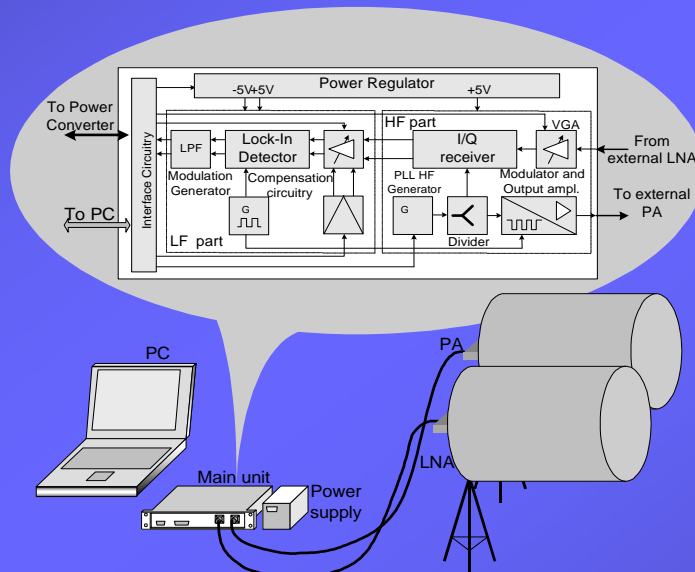
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Microwave Through Wall Detection Technology

Rescue Systems on the Base of Continuous Wave Radar



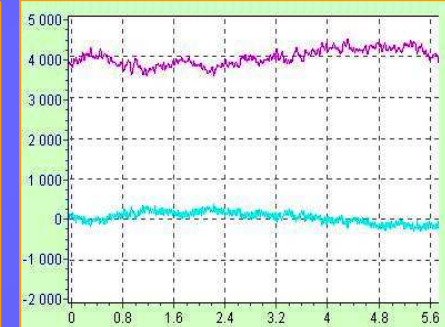
Photo of rescue CW radar.



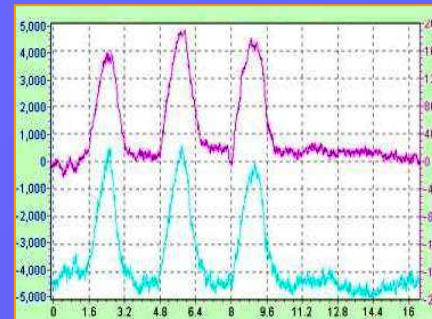
Schematic view of hardware parts of the system.



Reflected signal from running human behind two walls.



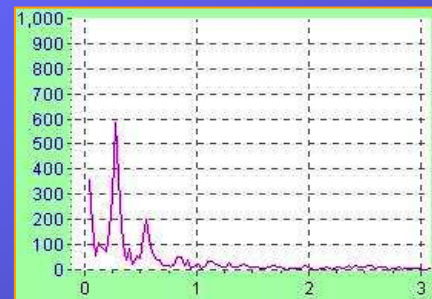
Signal from dual diode modulator ($f=28\text{Hz}$) behind two walls.



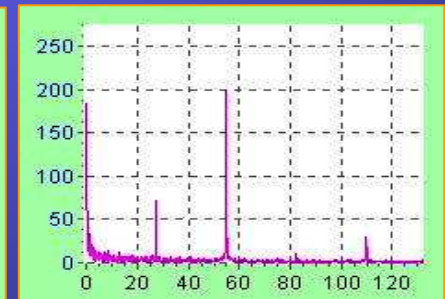
Humans breathing behind wall.



Time-domain form of the signal.



Spectrum of humans breathing.



Spectrum of the signal.

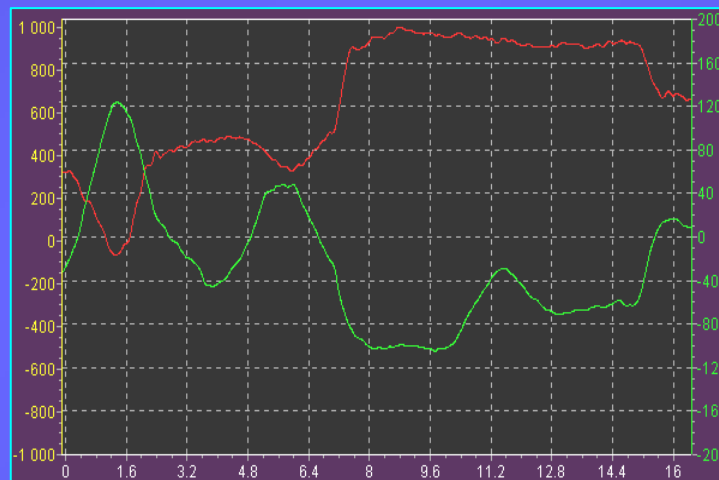
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Rescue Radar Operation



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Underground Detection



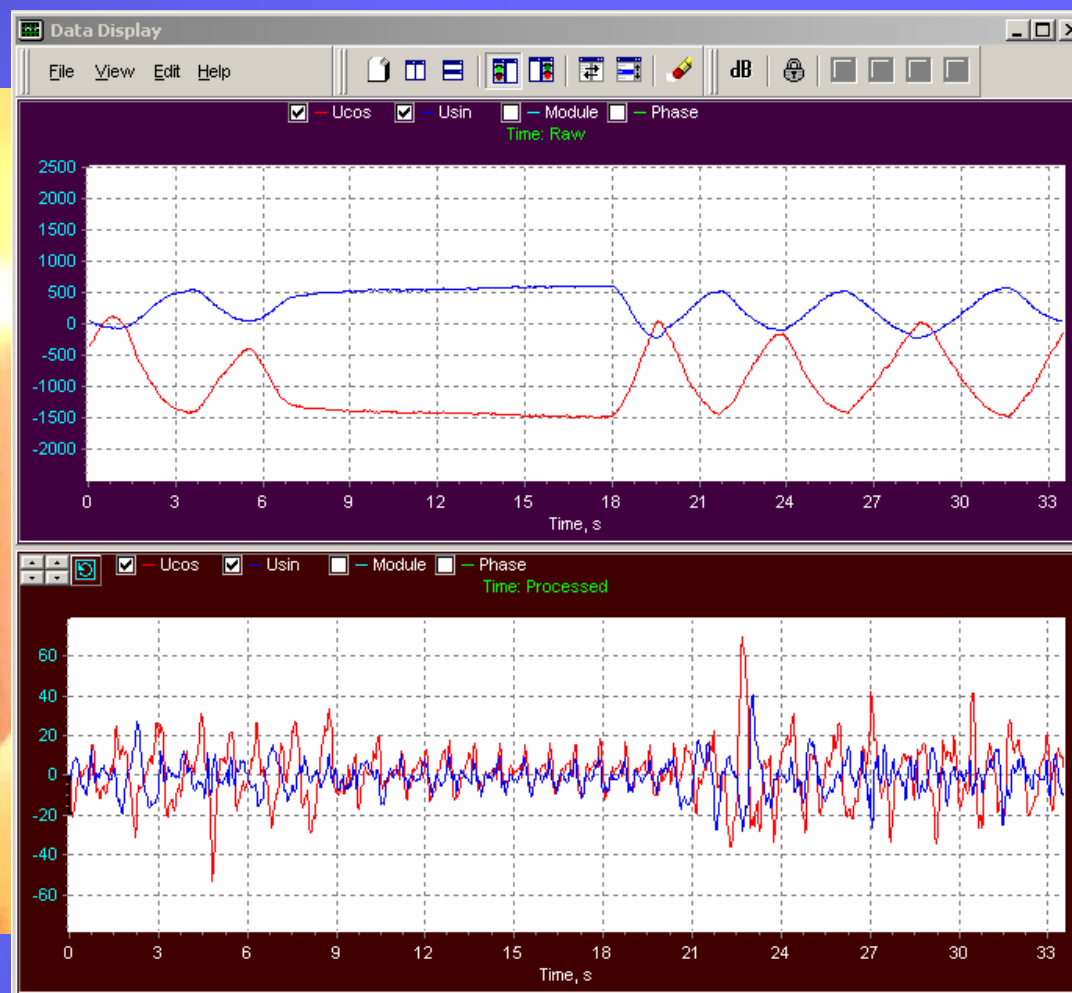
Microwave Through Wall Detection Technology

Underground Detection



Microwave Through Wall Detection Technology

Underground Detection



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Test Area for Through Wall Imaging and Detection

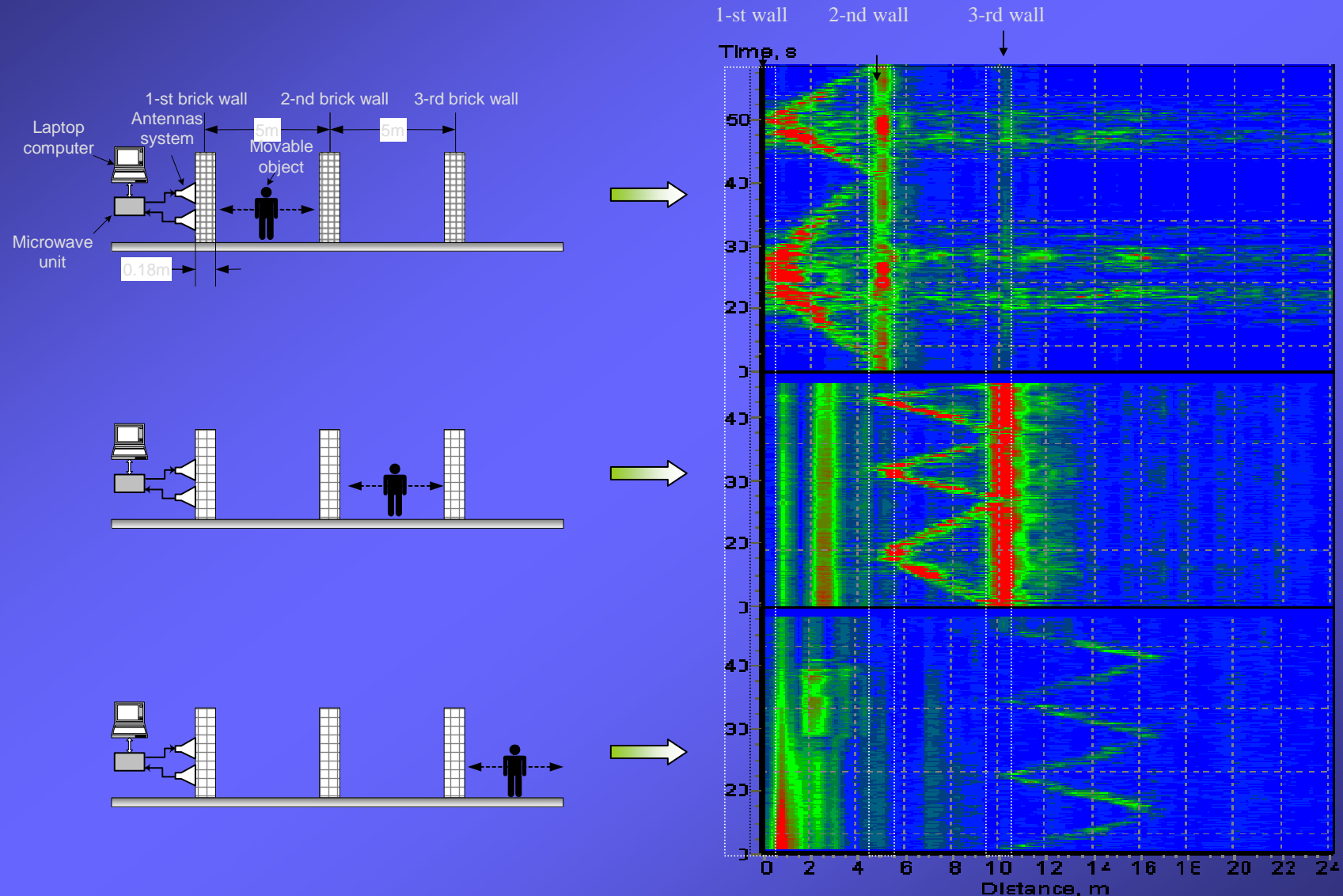


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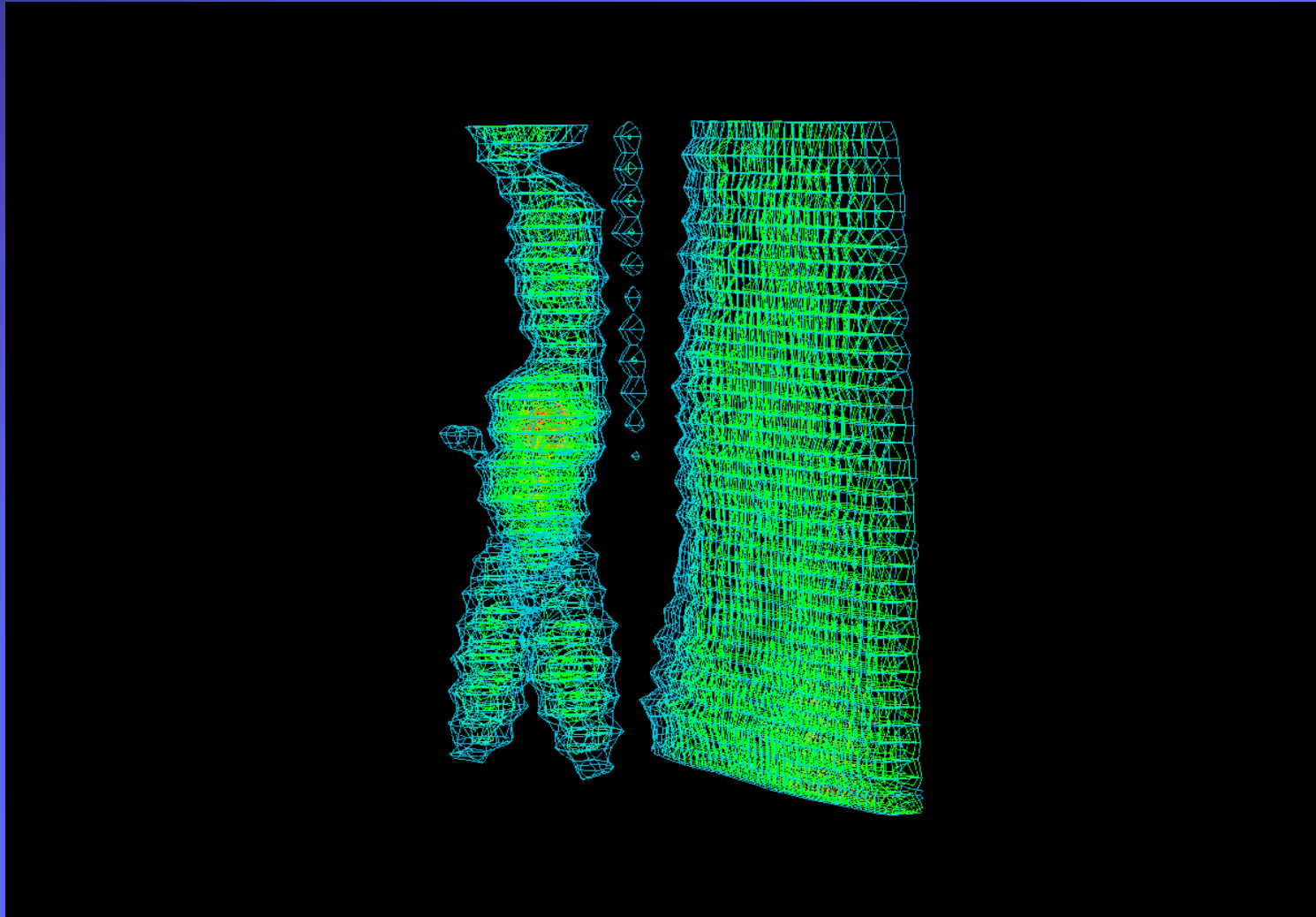
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Detection of Person in Between of few Brick Walls



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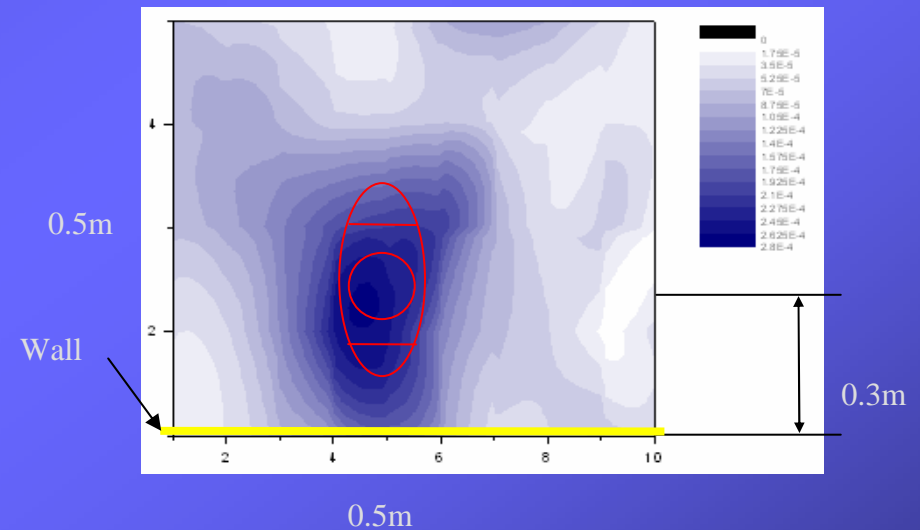
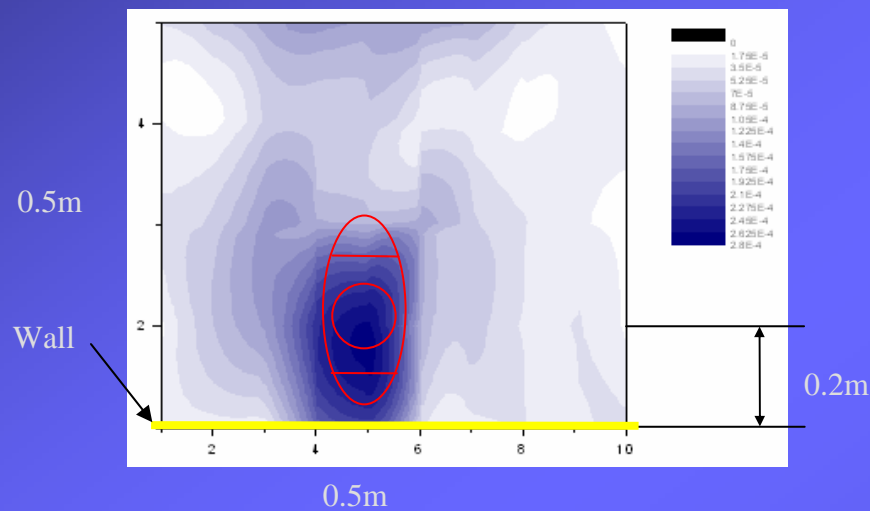
Through Wall Imaging (Microwave Tomography)



A standing person behind the board 3D image (2-5 GHz)

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Detection of moving person behind the wall by using of Tomography method



Frequency range 2-4 GHz

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