

# **EVADING THERMAL IMAGING AND RADAR DETECTION**

Covers:

Expedient equipment

Instructions for manufacture

Evasive techniques

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For Caleb and Joshua. Dad won't always be here to teach you.

Warning: the reader of this pamphlet is solely responsible for consequences arising from actions based on the enclosed material. The publishers assume no responsibility. We recommend that you receive additional training.

If you are reading this while evading hostile forces, you have a problem. You may be aware of the techniques taking advantage of terrain, cover and darkness to evade hostiles, but you must also be aware of thermal imaging and night vision devices that will be utilized by enemy forces.

Modern night vision and thermal imaging devices detect energy in the infrared range such as heat and convert the detected energy to an image on the device's viewing screen. Hence the term, thermal imaging.

Because the human body radiates heat that is usually in excess of the temperature of it's surroundings, advanced versions of thermal imaging technology can effectively detect human thermal energy through woodland, fog, smoke and a variety of conditions. This technology also detects the heat emitted from car or truck engines.

## **Reducing a vehicle's thermal energy**

As long as a vehicle's engine is running it will be detectable by a thermal imaging device. If you are mobile in a motorized vehicle and suspect that hostiles are conducting a search for your presence, you must find a source of water, shut down your engine and cool it down to ambient air temperatures by pouring sufficient amounts of water over it. Don't forget to cool down your

exhaust system as well. When your vehicle's engine has been cooled to air temperature, camouflage the vehicle under trees or brush to prevent detection by sight.

Your vehicle's engine, frame, and probably body are made of metal. As such, it will reflect radar signals emitted by satellites, J-STARS and other reconnaissance aircraft and ground troops.

To avoid detection by radar, magnetic tape found in audio and video cassetts may be obtained and mixed into automotive or other paint. The vehicle may then be painted with this mixture. This mixture has the effect of scattering radar energy, rendering a much smaller and less effective return signal. With a less effective return signal, your vehicle will not appear to be what it is to those searching for you, thus you will have a good chance of being overlooked.

## **Reducing human thermal energy**

Beside your vehicle, you must also take steps to reduce your own thermal energy in an evasive situation. It is not possible for you to cool your body temperature down to ambient air temperature. Any attempt to do so will induce hypothermia and you may die

In summer months when air temperatures rise between 96 and 100+ degrees there is very little to no contrast between your body's temperature and it's surroundings. During these conditions you will be able to elude thermal imaging devices by camouflaging against detection by eye sight and traveling in the heat of day. Avoid shaded woodlands or areas where temperatures will be reduced and will provide a contrast between your body's heat and surrounding air temperatures.

To elude thermal imaging devices at night and in cooler weather, obtain a metalized "space" blanket and a wool blanket. Form a hood with the space blanket over your head and allow the rest of the material to drop over your back. Wrap the rest of the space blanket around to your front forming a poncho. Make certain the space blanket fits over your slung rifle and gear. Also make certain that a slit is formed in the front of your space blanket poncho to allow you to thrust your arms through for work or for firing your rifle.

"The battle, Sir, is not to the strong alone; it is to the vigilant, the active, the brave." Patrick Henry, March 1775

"God is our refuge and strength, a very present help in trouble." Psalms 46:1

Fasten the poncho at your throat with electrician's tape or duct tape if necessary. This will prevent over 80% of your body's heat from escaping into the environment and being detected.

To further reduce your heat signature, moisten the wool blanket and form it over the top of your space blanket in like manner as your space blanket. This will act as an evaporative cooler and quickly dissipate escaping body heat, thus further reducing your heat signature.

Heat signature can be further reduced by obtaining an extra space blanket and cutting it, utilizing the material to form socks, leggings or mittens. Also forming a veil over your face with your poncho will help to block a large avenue of heat escape from your facial area.

The above technique will reduce your heat signature so that you will appear to be nothing more than some mice or rabbits to an enemy observer. Crawling upon the ground, lying prone or curling into a ball will further confuse your heat signature to an observer. Should you hear or see the approach of a helicopter or other aircraft, or ground vehicles, it would be wise to incorporate such tactics in conjunction with the use of equipment described in this pamphlet.

## **Individual protection against radar**

Your equipment, such as your rifle or space blanket, will reflect radar signals, making you detectable by enemy surveillance utilizing radar sources from satellites, J-STARS and reconnaissance aircraft and ground troops.

Radar detection by these sources is highly effective, as demonstrated in the first Gulf war.

To reduce radar signature, mix magnetic tape from audio or video cassette sources with fabric or carpenter's glue and brush liberally into your wool blanket. Wear the blanket with the magnetic tape on the inside of the blanket and over the space blanket, as before. Do not wet the blanket with the magnetic tape/glue mixture. That could tend to rapidly degrade the magnetic tape content.

As a further benefit, the space blanket also has the effect of providing protection against weapons utilizing micro-wave and electromagnetic technologies.

## **Use of equipment by Militia formations**

For Militias to maneuver as units, personnel must utilize equipment like that described in this pamphlet to elude detection by thermal imaging and radar devices that will be used by enemy forces. Unit concentrations will attract enemy attention and will invite attack by superior forces.

To avoid attacks and ambushes, unit commanders should inspect personnel's equipment to ensure that all personnel utilize thermal imaging negating equipment before operations.

In order to further reduce detection of unit sized maneuvers, it will also be necessary to spread formations out rather than to bunch up. While spread out in 2 or 3 man teams and all personnel

utilizing the described equipment, a unit may appear to be a number of randomly spaced mice or rabbit sized animals foraging in the underbrush.

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or

purchase originals by sending 10 cents each plus a self addressed stamped envelope to:

United States Militia, Special Forces

P.O. Box 12085

Aspen, CO 81612

Queries and submissions are welcome.

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This pamphlet was written to provide Militias and individuals with a bare bones knowledge of evading certain technologies that are certain to be utilized by America's enemies. As such, this pamphlet was produced so that it would be printed on both sides of a single 8 ½ x 11" piece of paper and folded three ways to form a small instruction pamphlet that could be kept in an individual's pocket and to be quickly produced and distributed so that this knowledge could be utilized by Americans fighting for their freedoms.

The mastermind of this project can be reached at the above address for The United States Militia, Special Forces. Editor's note to all "concerned parties": any bodily harm done to anyone at the mentioned address will not stop this simple project. That's the way it was planned.

Due to the above method of providing material to be hastily produced and utilized, some explanations and elaborations into the instructions and techniques were left out. These are not of upmost importance, but could tend to help individuals and Militia commanders through knowledge of this subject. For this purpose, The Independent American will elaborate on the above instructions.

Much of the modern night vision devices also utilize light amplification technologies, so that it is always important to camoflaue against detection by sight, as well as detection by infrared, heat and radar. This should be beared in mind when selecting your wool blanket. A poncho made in ghille fashion with burlap strips would act in the same manner as the plain wool blanket and provide better camoflaue from sight. Brown or olive drab and green colors and at night, gray or a dark purple tend to hide an individual well.

The space blanket utilized alone without the wool blanket will hide your thermal energy well, but will appear to a night vision device to be a hole in the surrounding environment as the metalized material will not only reflect your body's heat back toward you, but is also cooler than the surrounding environment. It is best to use the space blanket with the wool blanket as the wool blanket will stay closer to your surrounding environment's temperature. A blanket of wool or other natural material will provide protection from thermal energy detection for a short period of time, but will eventually warm to the point of radiating more heat than the surrounding environment. Always use the space blanket and wool blanket in conjunction.

On cool, rainy or damp days it is not necessary to moisten your wool blanket. Moistening your wool blanket is best done on dry days when utilizing cover in woodlands and scrub brush. This will greatly negate the chance of being spotted by aircraft using FLIR technology. When in grasslands or more open areas, do not moisten your wool blanket. Allow it to reflect the same temperature as your surroundings, but utilize your space blanket underneath to hide your own body heat.

Wool was chosen as the material of choice for the outer blanket because as natural material it tends to reflect the same thermal energy as the surrounding environment and for it's practical, utilitarian purpose. Wool dries quickly when heated by your body and it's insulating and heat

retaining factors are restored by your body's heat quickly, thus making a wool blanket a life saving piece of equipment when staying warm becomes a factor. Used underneath the space blanket, the wool blanket can help to build back lost body temperature and warm an individual when desperately needed, making an extremely useful expedient sleeping bag. Other natural materials are not effective at this.

Always wear the side of your wool blanket that has been coated with your anti-radar detection magnetic tape/glue mixture inside against your space blanket. This will protect the layer of tape/glue from being rubbed off in brush and on the ground as you are evading detection.

You are NEVER completely invisible! ALWAYS use evasive techniques such as cover, concealment and camouflage! Your night vision/radar negating equipment is only to help mask you from these devices. You are always detectable from sight, even at night.

Micro-wave weapons are being developed for crowd control that emits micro-waves in a tight beam like a laser. This is used to burn the skin and damage the eyes of those targeted. Your space blanket will dissipate micro-wave beams away from your body, as long as you are not hit on an exposed area. It is the same principal as wrapping a potato in aluminum foil and placing it in a micro-wave oven.

Certain electromagnetic fields can influence the human brain. Weapons are in development that create electromagnetic fields that induce a sense of apathy, depression, and a state of surrender in the human mind. Your space blanket is effective in negating such fields, as well; however; if you notice that such weapons are being deployed, it would be prudent to vacate the area, employ a faraday caged electromagnetic safe structure or ground your space blanket.

[Back to Table Of Contents](#)