

Comprehensive Radar Net Technical Specifications

Name: Multi-Spectrum Camouflage Net

Material: Constructed using multi-layer composite coated fabric as the base material, through processes such as printing, coating, cutting, and tying.

Appearance: Resembles leaf-shaped cutouts.

Size: Generally available in standard dimensions (6,800×6,800mm), or as specified by the user.

Types: Woodland Desert Snow Color: Refer to GJB1082-91 or as specified by the user.

Pattern: Woodland camouflage nets use a three-color scheme: dark green, light green, and yellow earth; desert camouflage nets use a three-color scheme: sand, sand green, and brown; snow camouflage nets are white.

Camouflage net colors and patterns can also be specified by the user.



Technical Specifications Visible Light Stealth Criteria

a) Color: Refer to GJB1082-91 "Colors for Camouflage Nets," or as specified by the user.

b) Color difference not greater than 3 color difference units.

Feature 1: Utilizes dual-sided multi-background design for broader application. The front side is woodland, and the reverse side is desert.

Feature 2: Incorporates unique thermal infrared compensation technology, achieving thermal hotspot separation and enhancing thermal shielding and thermal inertia. This significantly improves thermal infrared stealth performance.

Feature 3: Expands radar stealth bands. Utilizes composite scattering materials to extend the radar stealth bands.



Near Infrared and Near Ultraviolet Stealth Criteria

Near Ultraviolet (0.3-0.4 μ m) reflectance greater than 0.7.

Near Infrared (0.76-1.2 μ m) reflectance as per Table 1.

Table 1: Near Infrared Reflectance Requirements

Color	Near Infrared Reflectance
Dark Green	>0.4
Light Green	>0.5
Sand Green	No requirement
Khaki	<0.25
Sandy Yellow	>0.6



Visible Light and Near Infrared Comparison

Thermal Infrared Stealth Criteria

Operating Bands: 3-5 μ m and 8-14 μ m.

b) Stealth Performance: Attenuates 70% of the target's thermal radiation (shielding layer allowed); multiple spot colors have low emissivity, forming a thermal camouflage pattern on the thermal image.



Visible Light and Thermal Infrared Comparison

Radar Stealth Criteria

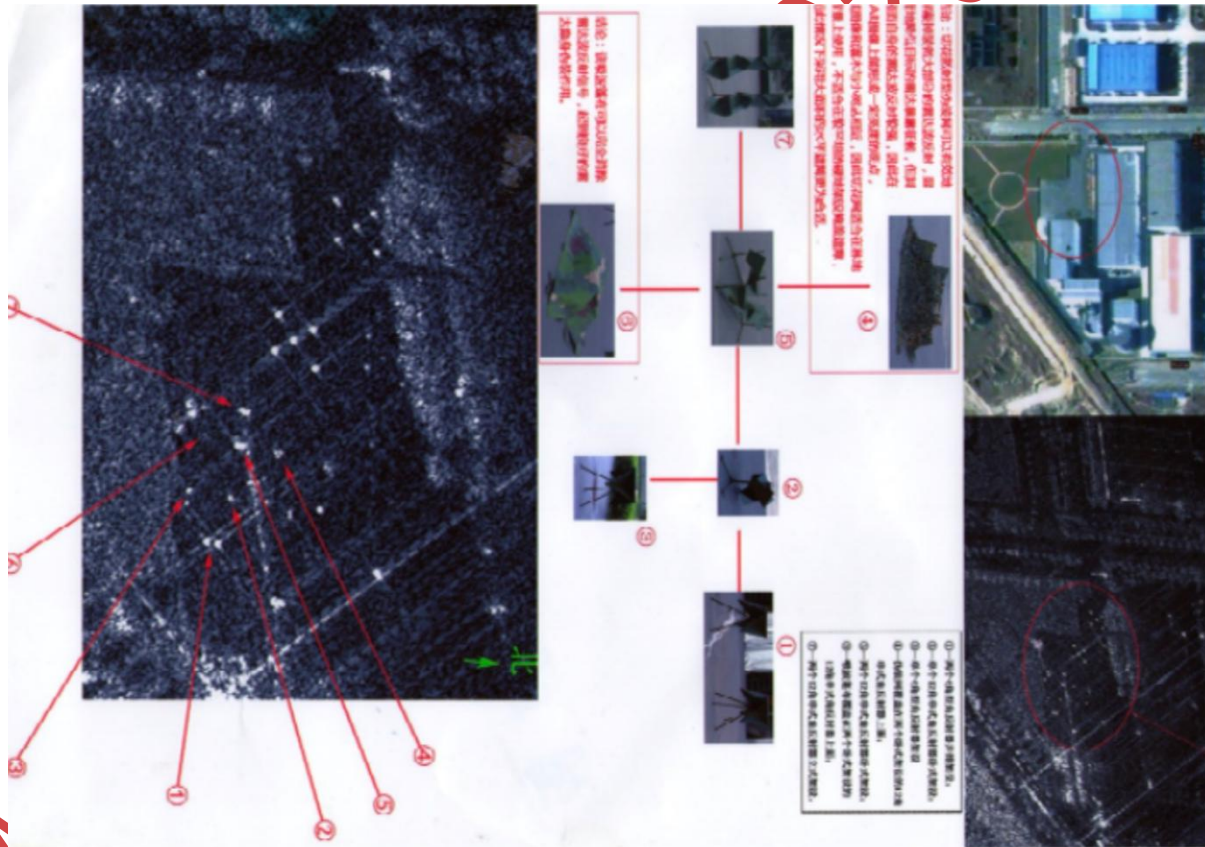
Band (2-4GHz): Average reflectance attenuation not less than 6dB.

Band (4-8GHz): Average reflectance attenuation not less than 10dB.

X-Band (8-12GHz): Average reflectance attenuation not less than 20dB.

KU-Band (12-18GHz): Average reflectance attenuation not less than 10dB.

Ka-Band (35GHz): Average reflectance attenuation not less than 10dB.



Radar Imaging Detection Effect

Usage Criteria

Service Life: Continuous outdoor use for 3 years.

Storage Life: 10 years.

Flame Resistance: Net material self-extinguishes within 10 seconds when removed from fire. Netting, shielding layer, and edge cords to be determined by the user.

Unit Weight: Less than 400g/m².

Weight Increase After Immersion: Less than 50g/m².

Environmental Conditions: -40 to +50°C.

Visibility: 20-40%.

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