

MM/SPS-702

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Air and Surface Search Radar

GENERAL

The MM/SPS-702 is a modern radar featuring surface search and low flying aircraft and sea skimmer detection. This radar is the result of the experience gained over the years by SMA designing and producing similar radars for the Italian and other foreign navies.

In the new design, special attention has been paid to the requirements of a modern logistic support with the introduction of a sophisticated BITE. Radar interfaces have been studied to allow the integration of the radar in a modern C.I.C.

A light weight double curvature parabolic reflector with cosecant squared vertical pattern with roll and pitch stabilization is provided. IFF,

navigation and/or SSM weapon delivery assistance antennas can be integrated on the same group.

The "x" band transmitter is frequency agile. The receiver has an RF amplifier to enhance sensitivity. The IF chain is provided with different dynamic and processing characteristics.

A digital MTI with adaptive speed compensation and proper velocity response, allows detection of moving targets also in the presence of heavy clutter.

The employment of a broad band antenna permits the integration of the "INTRA" System, extremely useful for localizing, with high accuracy the position of cooperating helicopters even when they fly at very low altitude.

