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Furuno Radar Requirements for USCG/DOT Regulations on Towing Vessels Under 300 Gross Tons

This bulletin provides an updated list of Furuno Compliant Radars that meet or exceed the Category I and Category II USCG/DOT Carriage Requirements.

Background:

The U.S.C.G. and the Department of Transportation adopted mandatory radar carriage regulations for "Towing Vessels Over 12 Meters and Under 300 Gross Tons" in 1996. The radar requirements for these regulations are based upon an RTCM Standard specifically developed for vessels under 300 gross tons. The USCG Carriage Requirements, and the RTCM Radar Requirements, have not changed since becoming effective in 1996.

There are two different categories of radar display requirements set forth by these regulations. These two display categories are defined only by the geographic area where a particular towing vessel under 300 Gross Tons operates.

Simplified Display Category Definitions:

Display Category I Towing Vessels

Any U.S. Registered Vessel, under 300 gross tons and over 12 meters, which engages in towing operations "seaward" of navigable waters of the US (this means the vessel tows in the ocean) or more than three miles from shore on the Great Lakes.

Display Category II Towing Vessels

Any U.S. Registered Vessel, under 300 gross tons and over 12 meters, which engages in towing operations in navigable US waters.

Furuno Radar Requirements for a Display Category I Vessel

The Furuno radar system must minimally have an effective radar display diameter of 180mm (Without External Magnification) and the radar display must be "Stabilized". A "Stabilized Display" means that Course-Up, North-Up and any other stabilized display mode must all be available to the Radar Operator. The radar's antenna system must also have a maximum horizontal beamwidth of 2.5 degrees.

For example: A new Furuno Radar installed on a Display Category I Vessel must minimally be an FR8062 radar with display stabilization capability. This means that the FR8062 must be interfaced with a compass, preferably a Furuno PG500R or, in the case of a steel hulled vessel, a Furuno SC50 Satellite Compass.

Furuno Radar Requirements for a Display Category II Vessel

The Furuno radar system must have a maximum horizontal beamwidth of 2.5 degrees. Display Stabilization is optional for Display Category II Vessels. Currently, there is no display size requirement for any Furuno Radar System installed on Display Category II Vessels.

*The following is a **comprehensive list** of all current and older Furuno Radars which are compliant for a Display Category I Vessel:*

(Note: All of these radar products MUST have Display Stabilization available to the radar operator. This means a compatible heading sensor must be interfaced to the radar display.)

Current Furuno Radars Compliant for a Display Category I Vessel:

- All NavNet vx2 "BB" Series Open Array systems w/MU120C 12" displays or larger
- All FR8002 Series
- All FR1500Mk3 Series
- All FAR2107/FAR2807 Series

Previous Furuno Radars Compliant for a Display Category I Vessel:

- All NavNet "BB" Series Open Array systems with MU120C 12" displays or larger

- All FR7001/FR7002/FR8002 Series
- All FR8000/FR8001 Series
- All FR1500/1500Mk2 Series
- All FR2000 Series
- All FR2100/FR2105 Series
- All FR2800/FR2805 Series

*The following is a **comprehensive list** of all current and older Furuno Radars which are compliant for a **Display Category II Vessel**:*

(Note: Any Furuno radar system from the Category I list is also compliant for a Category II Vessel.)

Current Furuno Radars Compliant for a Display Category II Vessel:

- 1934C
- 1932Mk2
- 1942Mk2
- 1944C
- 1954C
- 1964C

Previous Furuno Radars Compliant for a Display Category II Vessel:

- 1760, 1761, and 1762 Series Mono and Color systems
- 851
- FR7000, FR7001, FR7002 Series
- 1930, 1931, 1932, and 1933 Series
- 1940, 1941, 1942, and 1943 Series

If you have any questions, you may visit our website (www.furuno.com) and click on "Support," then "Ask Furuno a Question." You may also contact a Furuno support technician at either our Camas, WA facility, (360) 834-9300 or at our Denton, MD facility, (410) 479-4420.

Sincerely,
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