GARMIN MARINE GPS COMPARISON

GARMIN MODEL	UNIT DIMENSIONS	DISPLAY SIZE	DISPLAY RESOLUTION	DISPLAY TYPE	TOUCHSCREEN	WEIGHT	WATERPROOF	BASEMAP	PRELOADED MAPS	ABILITY TO ADD MAPS	ACCEPTS DATA CARDS	WAYPOINTS	ROUTES	TRACKLOG	BATTERY LIFE	GARMIN MODEL	NMEA INPUT/OUTPUT	CANVU COMPATIBLE	SUPPORTS AIS	SUPPORTS DSC	AUDIBLE ALARMS	TIDE TABLES	SUN & MOON INFO	3-D MAP VIEW	AUTO GUIDANCE	XM WX WEATHER & RADIO COMPATIBLE	GARMIN RADAR COMPATIBLE	GARMIN SONAR COMPATIBLE	DUAL FREQUENCY SONAR CAPABLE	DUAL BEAM SONAR CAPABLE	GARMIN MODEL
CHARTPLOTTERS																															
GPS 152H	5.3" x 4.9" x 2.4"	3.5" x 2.3", 4.0" diag	160 x 100 pixels	4-level grayscale LCD	-	1 lb. (454 g)	Y (IPX7)	-	-	-	-	3,000	50	10,000 points	-	GPS 152H	NMEA 0183	-	-	-	Y	Y	Y	-	-	-	-	-	-	GPS 152H
GPSMAP 620	5.9" x 4" x 1.9"	4.5"W x 2.7"H, 5.2" diag	800 x 480 pixels	WVGA	-	17.3 ounces	Y (IPX7)	Y	-	Y	Y (SD card)	1500 (marine mode); 1000 (automotive mode)	50 (marine mode); 10 (automotive mode)	10,000 points, 20 saved tracks (marine mode); 10,000 points, no saved tracks (automotive mode)	up to 9 hours	GPSMAP 620	NMEA 0183	-	Y	Y	Y	Y	Y	yes (with optional BlueChart g2 Vision card)		-	-	-	-	-	GPSMAP 620
GPSMAP 640	5.9" x 4" x 1.9"	4.5"W x 2.7"H, 5.2" diag	800 x 480 pixels	WVGA	-	17.3 ounces	Y (IPX7)	Y	Y (coastal and detailed road maps)	Y	Y (SD card)	1500 (marine mode); 1000 (automotive mode)	50 (marine mode); 10 (automotive mode)	10,000 points, 20 saved tracks (marine mode); 10,000 points, no saved tracks (automotive mode)	up to 9 hours	GPSMAP 640	NMEA 0183	-	Y	Y	Y	Y	Y	yes (with optional BlueChart g2 Vision card)		-	-	-	-	-	GPSMAP 640
GPSMAP 421	5.7" x 5.0" x 2.7"	2.4" x 3.2", 4.0" diag	240 x 320 pixels	QVGA	-	1.3 lb	Y (IPX7)	Y	-	Y	Y (SD card)	3,000	100	10,000 points; 50 saved tracks	-	GPSMAP 421	NMEA 0183 / NMEA 2000	-	Y	Y	Y	Y		yes (with optional BlueChart g2 Vision card)		Y	-	-	-	-	GPSMAP 421
GPSMAP 431	5.7" x 5.0" x 2.7"	2.4" x 3.2", 4.0" diag	241 x 320 pixels	QVGA	-	1.3 lb	Y (IPX7)	Y	Y (inland maps)	Y	Y (SD card)	3,000	100	10,000 points; 50 saved tracks	-	GPSMAP 431	NMEA 0183	-	Y	Y	Y	Y	Y	yes (with optional BlueChart g2 Vision card)		-	-	-	-	-	GPSMAP 431
GPSMAP 441	5.7" x 5.0" x 2.7"	2.4" x 3.2", 4.0" diag	242 x 320 pixels	QVGA	-	1.3 lb	Y (IPX7)	Y	Y (coastal maps)	Y	Y (SD card)	3,000	100	10,000 points; 50 saved tracks	-	GPSMAP 441	NMEA 0183 / NMEA 2000	-	Y	Y	Y	Y	Y	yes (with optional BlueChart g2 Vision card)	yes (with optional BlueChart g2 Vision card)	Y	-	-	-	-	GPSMAP 441
GPSMAP 521	5.9" x 6.4" x 2.9"	3.0" x 4.0", 5.0" diag	234 x 320 pixels	QVGA	-	less than 1.75 lb	Y (IPX7)	Y	-	Y	Y (SD card)	3,000	100	10,000 points; 50 saved tracks	-	GPSMAP 521	NMEA 0183 / NMEA 2000	-	Y	Y	Y	Y	Y	yes (with optional BlueChart g2 Vision card)	yes (with optional BlueChart g2 Vision card)	Y	-	-	-	-	GPSMAP 521
GPSMAP 526	5.9" x 6.4" x 2.9"	3.0" x 4.0", 5.0" diag	480 x 640 pixels	VGA	-	less than 1.75 lb	Y (IPX7)	Y	-	Y	Y (SD card)	3,000	100	20,000 points; 50 saved tracks	-	GPSMAP 526	NMEA 0183 / NMEA 2000	-	Y	Y	Y	Y	Y	yes (with optional BlueChart g2 Vision card)	yes (with optional BlueChart g2 Vision card)	Y	-	-	-	-	GPSMAP 526
GPSMAP 531	5.9" x 6.4" x 2.9"	3.0" x 4.0", 5.0" diag	234 x 320 pixels	QVGA	-	less than 1.75 lb	Y (IPX7)	Y	Y (inland maps)	Y	Y (SD card)	3,000	100	10,000 points; 50 saved tracks	-	GPSMAP 531	NMEA 0183	-	Y	Y	Y	Y	Y	yes (with optional BlueChart g2 Vision card)	yes (with optional BlueChart g2 Vision card)	-	-	-	-	-	GPSMAP 531
GPSMAP 536	5.9" x 6.4" x 2.9"	3.0" x 4.0", 5.0" diag	480 x 640 pixels	VGA	-	less than 1.75 lb	Y (IPX7)	Y	Y (inland maps)	Y	Y (SD card)	3,000	100	20,000 points; 50 saved tracks	-	GPSMAP 536	NMEA 0183 / NMEA 2000	-	Y	Y	Y	Y	Y	yes (with optional BlueChart g2 Vision card)	yes (with optional BlueChart g2 Vision card)	Y	-	-	-	-	GPSMAP 536
GPSMAP 541	5.9" x 6.4" x 2.9"	3.0" x 4.0", 5.0" diag	234 x 320 pixels	QVGA	-	less than 1.75 lb	Y (IPX7)	Y	Y (coastal maps)	Y	Y (SD card)	3,000	100	10,000 points; 50 saved tracks	-	GPSMAP 541	NMEA 0183 / NMEA 2000	-	Y	Y	Y	Y	Y	yes (with optional BlueChart g2 Vision card)	yes (with optional BlueChart g2 Vision card)	Y	-	-	-	-	GPSMAP 541
GPSMAP 546	5.9" x 6.4" x 2.9"	3.0" x 4.0", 5.0" diag	480 x 640 pixels	VGA	-	less than 1.75 lb	Y (IPX7)	Y	Y (coastal maps)	Y	Y (SD card)	3,000	100	20,000 points; 50 saved tracks	-	GPSMAP 546	NMEA 0183 / NMEA 2000	-	Y	Y	Y	Y	Y	yes (with optional BlueChart g2 Vision card)	yes (with optional BlueChart g2 Vision card)	Y	-	-	-	-	GPSMAP 546
GPSMAP 720	8.8" x 5.6" x 3.1"	6.0" x 3.6", 7.0" diag	800 x 480 pixels	WVGA	Y	2.48 lb	Y (IPX7)	Y	-	Y	Y (SD card)	3,000	100	20,000 points; 50 saved tracks	-	GPSMAP 720	NMEA 0183 / NMEA 2000	-	Y	Y	Y	Y	Y	yes (with optional BlueChart g2 Vision card)	yes (with optional BlueChart g2 Vision card)	Y	Y	-	-	-	GPSMAP 720
GPSMAP 740	8.8" x 5.6" x 3.1"	6.0" x 3.6", 7.0" diag	801 x 480 pixels	WVGA	Y	2.48 lb	Y (IPX7)	Y	Y (coastal maps)	Y	Y (SD card)	3,000	100	20,000 points; 50 saved tracks	-	GPSMAP 740	NMEA 0183 / NMEA 2000	-	Y	Y	Y	Y	Y	yes (with optional BlueChart g2 Vision card)	yes (with optional BlueChart g2 Vision card)	Y	Y	-	-	-	GPSMAP 740
GPSMAP 4008	11.2" x 7.0" x 4.6"	6.9" x 5.2", 8.4" diag	640 x 480 pixels	VGA	-	5.0 lb	Y (IPX7)	Y	-	Y	Y (SD card)	1,500	20	10,000 points; 20 saved tracks	-	GPSMAP 4008	NMEA 0183 / NMEA 2000	-	Y	Y	Y	Y	Y	yes (with optional BlueChart g2 Vision card)	yes (with optional BlueChart g2 Vision card)	Y	Y	Y	Y	Y	GPSMAP 4008
GPSMAP 4012	14.8" x 9.5" x 4.6"	9.7" x 7.3", 12.1" diag	1024 x 768 pixels	XGA	-	10.0 lb	Y (IPX7)	Y	-	Y	Y (SD card)	1,500	20	10,000 points; 20 saved tracks	-	GPSMAP 4012	NMEA 0183 / NMEA 2000	-	Y	Y	Y	Y	Y	yes (with optional BlueChart g2 Vision card)	yes (with optional BlueChart g2 Vision card)	Y	Y	Y	Y	Y	GPSMAP 4012
GPSMAP 4208	11.2" x 7.0" x 4.6"	6.9" x 5.2", 8.4" diag	640 x 480 pixels	VGA	-	5.0 lb	Y (IPX7)	Y	Y (coastal maps)	Y	Y (SD card)	1,500	20	10,000 points; 20 saved tracks	-	GPSMAP 4208	NMEA 0183 / NMEA 2000	-	Y	Y	Y	Y	Y	yes (with optional BlueChart g2 Vision card)	yes (with optional BlueChart g2 Vision card)	Y	Y	Y	Y	Y	GPSMAP 4208
GPSMAP 4210	13.4" x 8.9" x 4.2"	8.3" x 6.3", 10.4" diag	800 x 600 pixels	SVGA	-	7.8 lb	Y (IPX7)	Y	Y (coastal maps)	Y	Y (SD card)	1,500	20	10,000 points; 20 saved tracks	-	GPSMAP 4210	NMEA 0183 / NMEA 2000	-	Y	Y	Y	Y	Y	yes (with optional BlueChart g2 Vision card)	yes (with optional BlueChart g2 Vision card)	Y	Y	Y	Y	Y	GPSMAP 4210
GPSMAP 4212	14.8" x 9.5" x 4.6"	9.7" x 7.3", 12.1" diag	1024 x 768 pixels	XGA	-	10.0 lb	Y (IPX7)	Y	Y (coastal maps)	Y	Y (SD card)	1,500	20	10,000 points; 20 saved tracks	-	GPSMAP 4212	NMEA 0183 / NMEA 2000	-	Y	Y	Y	Y	Y	yes (with optional BlueChart g2 Vision card)	yes (with optional BlueChart g2 Vision card)	Y	Y	Y	Y	Y	GPSMAP 4212
GPSMAP 5008	10.1" x 6.8" x 4.2"	6.8" x 5.1", 8.4" diag	640 x 480 pixels	VGA	Y	6.0 lb	Y (IPX7)	Y	-	Y	Y (SD card)	1,500	20	10,000 points; 20 saved tracks	-	GPSMAP 5008	NMEA 0183 / NMEA 2000	-	Y	Y	Y	Y	Y	yes (with optional BlueChart g2 Vision card)	yes (with optional BlueChart g2 Vision card)	Y	Y	Y	Y	Y	GPSMAP 5008
GPSMAP 5012	13.0" x 9.5" x 4.7"	9.7" x 7.3", 12.1" diag	1024 x 768 pixels	XGA	Y	9.5 lb	Y (IPX7)	Y	-	Y	Y (SD card)	1,500	20	10,000 points; 20 saved tracks	-	GPSMAP 5012	NMEA 0183 / NMEA 2000	-	Y	Y	Y	Y	Y	yes (with optional BlueChart g2 Vision card)	yes (with optional BlueChart g2 Vision card)	Y	Y	Y	Y	Y	GPSMAP 5012
GPSMAP 5015	15.5" x 11.7" x 5.7"	9" x 12", 15" diag	1024 x 768 pixels	XGA	Y	11.9 lb	Y (IPX7)	Y	-	Y	Y (SD card)	1,500	20	10,000 points; 20 saved tracks	-	GPSMAP 5015	NMEA 0183 / NMEA 2000	-	Y	Y	Y	Y	Y	yes (with optional BlueChart g2 Vision card)	yes (with optional BlueChart g2 Vision card)	Y	Y	Y	Y	Y	GPSMAP 5015
GPSMAP 5208	10.1" x 6.8" x 4.2"	6.8" x 5.1", 8.4" diag	640 x 480 pixels	VGA	Y	6.0 lb	Y (IPX7)	Y	Y (coastal maps)	Y	Y (SD card)	1,500	20	10,000 points; 20 saved tracks	-	GPSMAP 5208	NMEA 0183 / NMEA 2000	-	Y	Y	Y	Y	Y	yes (with optional BlueChart g2 Vision card)	yes (with optional BlueChart g2 Vision card)	Y	Y	Y	Y	Y	GPSMAP 5208
GPSMAP 5212	13.0" x 9.5" x 4.7"	9.7" x 7.3", 12.1" diag	1024 x 768 pixels	XGA	Y	9.5 lb	Y (IPX7)	Y	Y (coastal maps)	Y	Y (SD card)	1,500	20	10,000 points; 20 saved tracks	-	GPSMAP 5212	NMEA 0183 / NMEA 2000	-	Y	Y	Y	Y	Y	yes (with optional BlueChart g2 Vision card)	yes (with optional BlueChart g2 Vision card)	Y	Y	Y	Y	Y	GPSMAP 5212
GPSMAP 5215	15.5" x 11.7" x 5.7"	9" x 12", 15" diag	1024 x 768 pixels	XGA	Y	11.9 lb	Y (IPX7)	Y	Y (coastal maps)	Y	Y (SD card)	1,500	20	10,000 points; 20 saved tracks	-	GPSMAP 5215	NMEA 0183 / NMEA 2000	-	Y	Y	Y	Y	Y	yes (with optional BlueChart g2 Vision card)	yes (with optional BlueChart g2 Vision card)	Y	Y	Y	Y	Y	GPSMAP 5215
CHARTPLOTTER COMBOS - charplotters with sounders																															
GPSMAP 421s	5.7" x 5.0" x 2.7"	2.4" x 3.2", 4.0" diag	240 x 320 pixels	QVGA	-	1.3 lb	Y (IPX7)	Y	-	Y	Y (SD card)	3,000	100	10,000 points; 50 saved tracks	-	GPSMAP 421s	NMEA 0183 / NMEA 2000	-	Y	Y	Y	Y	Y	yes (with optional BlueChart g2 Vision card)	yes (with optional BlueChart g2 Vision card)	Y	-	Y	Y	Y	GPSMAP 421s
GPSMAP 431s	5.7" x 5.0" x 2.7"	2.4" x 3.2", 4.0" diag	241 x 320 pixels	QVGA	-	1.3 lb	Y (IPX7)	Y	Y (inland maps)	Y	Y (SD card)	3,000	100	10,000 points; 50 saved tracks	-	GPSMAP 431s	NMEA 0183 compatible	-	Y	Y	Y	Y	Y	yes (with optional BlueChart g2 Vision card)	yes (with optional BlueChart g2 Vision card)	-	-	Y	Y	Y	GPSMAP 431s
GPSMAP 441s	5.7" x 5.0" x 2.7"	2.4" x 3.2", 4.0" diag	242 x 320 pixels	QVGA	-	1.3 lb	Y (IPX7)	Y	Y (coastal maps)	Y	Y (SD card)	3,000	100	10,000 points; 50 saved tracks	-	GPSMAP 441s	NMEA 0183 / NMEA 2000	-	Y	Y	Y	Y	Y	yes (with optional BlueChart g2 Vision card)	yes (with optional BlueChart g2 Vision card)	Y	-	Y	Y	Y	GPSMAP 441s
GPSMAP 521s	5.9" x 6.4" x 2.9"	3.0" x 4.0", 5.0" diag	234 x 320 pixels	QVGA	-	less than 1.75 lb	Y (IPX7)	Y	-	Y	Y (SD card)	3,000	100	10,000 points; 50 saved tracks	-	GPSMAP 521s	NMEA 0183 / NMEA 2000	-	Y	Y	Y	Y	Y	yes (with optional BlueChart g2 Vision card)	yes (with optional BlueChart g2 Vision card)	Y	-	Y	Y	Y	GPSMAP 521s
GPSMAP 526s	5.9" x 6.4" x 2.9"	3.0" x 4.0", 5.0" diag	480 x 640 pixels	VGA	-	less than 1.75 lb	Y (IPX7)	Y	-	Y	Y (SD card)	3,000	100	20,000 points; 50 saved tracks	-	GPSMAP 526s	NMEA 0183 / NMEA 2000	-	Y	Y	Y	Y	Y	yes (with optional BlueChart g2 Vision card)	yes (with optional BlueChart g2 Vision card)	Y	-	Y	Y	Y	GPSMAP 526s
GPSMAP 531s	5.9" x 6.4" x 2.9"	3.0" x 4.0", 5.0" diag	234 x 320 pixels	QVGA	-	less than 1.75 lb	Y (IPX7)	Y	Y (inland maps)	Y	Y (SD card)	3,000	100	10,000 points; 50 saved tracks	-	GPSMAP 531s	NMEA 0183	-	Y	Y	Y	Y	Y	yes (with optional BlueChart g2 Vision card)	yes (with optional BlueChart g2 Vision card)	-	-	Y	Y	Y	GPSMAP 531s
GPSMAP 536s	5.9" x 6.4" x 2.9"	3.0" x 4.0", 5.0" diag	480 x 640 pixels	VGA	-	less than 1.75 lb	Y (IPX7)	Y	Y (inland maps)	Y	Y (SD card)	3,000	100	20,000 points; 50 saved tracks	-	GPSMAP 536s	NMEA 0183 / NMEA 2000	-	Y	Y	Y	Y	Y	yes (with optional BlueChart g2 Vision card)	yes (with optional BlueChart g2 Vision card)	Y	-	Y	Y	Y	GPSMAP 536s
GPSMAP 541s	5.9" x 6.4" x 2.9"	3.0" x 4.0", 5.0" diag	234 x 320 pixels	QVGA	-	less than 1.75 lb	Y (IPX7)	Y	Y (coastal maps)	Y	Y (SD card)	3,000	100	10,000 points; 50 saved tracks	-	GPSMAP 541s	NMEA 0183 / NMEA 2000	-	Y	Y	Y	Y	Y	yes (with optional BlueChart g2 Vision card)	yes (with optional BlueChart g2 Vision card)	Y	-	Y	Y	Y	GPSMAP 541s
GPSMAP 546s	5.9" x 6.4" x 2.9"	3.0" x 4.0", 5.0" diag	480 x 640 pixels	VGA	-	less than 1.75 lb	Y (IPX7)	Y	Y (coastal maps)	Y	Y (SD card)	3,000	100	20,000 points; 50 saved tracks	-	GPSMAP 546s	NMEA 0183 / NMEA 2000	-	Y	Y	Y	Y	Y	yes (with optional BlueChart g2 Vision card)	yes (with optional BlueChart g2 Vision card)	Y	-	Y	Y	Y	GPSMAP 546s
GPSMAP 720s	8.8" x 5.6" x 3.1"	6.0" x 3.6", 7.0" diag	800 x 480 pixels	WVGA	Y	2.48 lb	Y (IPX7)	Y	-	Y	Y (SD card)	3,000	100	20,000 points; 50 saved tracks	-	GPSMAP 720s	NMEA 0183 / NMEA 2000	-	Y	Y	Y	Y	Y	yes (with optional BlueChart g2 Vision card)	yes (with optional BlueChart g2 Vision card)	Y	Y	Y	Y	Y	GPSMAP 720s
GPSMAP 740s	8.8" x 5.6" x 3.1"	6.0" x 3.6", 7.0" diag	801 x 480 pixels	WVGA	Y	2.48 lb	Y (IPX7)	Y	Y (coastal maps)	Y	Y (SD card)	3,000	100	20,000 points; 50 saved tracks	-	GPSMAP 740s	NMEA 0183 / NMEA 2000	-	Y	Y	Y	Y	Y	yes (with optional BlueChart g2 Vision card)	yes (with optional BlueChart g2 Vision card)	Y	Y	Y	Y	Y	GPSMAP 740s

*Depth capacity is dependent on water bottom type and other water conditions.

GLOSSARY

Ultrascroll > displays fish targets at higher boat speeds
Fish Symbol ID > helps identify fish targets
AutoGain Technology > minimizes clutter, maximizes targets
Adjustable depth line > measures depth of underwater objects
A-scope > real time display of fish passing through transducer beam
Whiteline > indicates hard or soft bottom
Bottom lock > shows return from the bottom up

DUAL FREQUENCY vs. DUAL BEAM

Dual beam is only reference to the beam that the transducer shoots to the bottom of the waterway. The units enable a transducer to shoot two beams at once at two frequencies (ie. 50kHz/200kHz). The transducer is not enabled with the dual beam settings. The units enable the transducer to use this feature, and only certain units enable this. Transducers run on the frequency settings, which differ, depending on useage. The frequency is the sine wave, and the cone is the angle that the frequency shoots at.

Generally, dual frequency is better for deeper water, about 200' or deeper, while dual beam enabled GPS units are best for shallow water, as it allows for two different cone widths, giving a better resolution of the targets below.

WHAT'S THE DIFFERENCE BETWEEN TRANSDUCER FREQUNCIES?

The transducers that Garmin devices are compatible with can have either a 200 kHz (2000,000 cycles per second) or a 50 kHz (50,000 cycles per second) frequency. Some transducers labeled "dual frequency" can use both frequencies.

A higher-frequency sound wave (200 kHz) will provide a higher-resolution picture of what is present under the water, but the range will be short. Fishermen in more shallow lakes, who want a crisp clear picture of the bottom need to use a higher-frequency transducer. A higher-frequency transducer will put out quicker, shorter, and more frequent sound waves. Like the ripples made when a small pebble is thrown into still water, small waves of sound move evenly out and away from the source. Because they are just small waves, they will not travel far, and small obstacles will cause them to bounce back. Higher-frequencies are more sensitive to small objects and will send back detailed information which will show as crisp high-resolution pictures on the chartplotter/sounders screen. The 200 kHz can read depths to around 200-300 feet.

Low-frequency sound waves (50 kHz or 77kHz) will not give the user as clear a picture of the bottom, but they have greater range for very deep areas where high-frequency sound waves cannot reach. A low-frequency unit will work well in the depths of the ocean. A low-frequency transducer will put out longer and less frequent sound waves. Like the ripples made when a large boulder is thrown into still water, larger waves of sound move deeper into the water. Because the low-frequency waves are so large, they wash right over small obstacles. Low-frequency sound waves are not as sensitive in detecting small fish or other small obstacles as compared to high-frequency waves. Although they can read greater depths, they will not send back detailed information or clear crisp pictures.
> Source: Garmin Support, FAQ, March 14, 2011

SONAR SETTINGS ON FISHFINDERS/SOUNDERS

Here is a list of the settings on the Sonar page and what they are used for:
> **Frequency:** This is the frequency the transducer will output.

> **Single Frequency:** With a single frequency transducer, the frequency setting can only be set to 200 kHz.

> **Dual Beam:** The frequency setting on this model is referred to as a "Beam". With a dual beam transducer and a dual beam compatible device, the Beam choices are "Wide" or "Narrow". If using a dual beam transducer and a non-Dual Beam device, the frequency setting will need to be 200 kHz.
> **Dual Frequency:** With this model of transducer, there are 3 frequency settings available: "200 kHz" (for shallow water), "50 kHz" (for deeper water), or "Dual Frequency" (both 200 kHz & 50 kHz running at the same time).

> **Gain:** This function controls the sensitivity of the transducer. For example, when the vessel is in 15 feet of water, the device may lose the sonar display and depth. This can occur because too strong of a signal is being received by the transducer due to the shallow depth and therefore it is unable to read the returning signal. In this case, the "Gain" would need to be reduced on the device. The opposite is true when in deeper water. If your sonar display is not picking up everything, the "Gain" may need to be increased.

> **Range:** This function controls the depth which will be displayed between the transducer and this setting. If "Range" is set to "auto" (the recommended setting), the depths on the right side of the display will automatically track the bottom. The "Range" can also be set to a specific depth. For example, if searching for structure no deeper than twenty feet, the "Range" would be set to twenty feet. The sonar page will then only show returns of what are between zero and twenty feet.

> **Ultra Scroll:** On devices with this feature, this function controls the rate of the scrolling speed on the display. This can be set from "Pause" to "100%".

> **Depth Line:** This feature allows a specified depth to be referenced by placing a dark line at this depth across the entire display.

> **Whiteline:** This function highlights the strongest signal from the bottom to help identify its hardness or softness. The strongest signal from the bottom will appear as a bright color (on color models). On a monochrome display, the bottom appears as a grayscale pattern. A hard bottom displays a thicker bottom while a softer bottom displays a thinner bottom layer. This function can be used to determine the bottom surface for anchoring purposes or for seeking out a specific species of fish by the bottom type they inhabit.
> Source: Garmin Support, FAQ

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