

Model:

TZT9F/12F/16F/19F



Model:

TZT2BB

Overview of Changes to Software

V3.70 for TZT9F/12F/16F/19F V9.70 for TZT2BB

INDEX

- 1. Improved Fish Finder
 - 1.1. Consistently Optimized View in Auto Mode
 - 1.2. Updated Transducer List
- 2. Network with NavNet TZtouchXL Series MFDs
 - 2.1. NavNet TZtouchXL Series TZT10X/13X/16X/22X/24X

- 2.2. NavNet TZtouchXL Series –
 TZT10X/13X/16X Built-in CHIRP Side Scan
- 3. Details of Software Versions
- 4. Others

1. Improved Fish Finder

1.1. Consistently Optimized View in Auto Mode

(TZT9F/12F/16F/19F Built-in Fish Finder only)

The improvement in Auto Gain used with the FCV-600 and FCV-800 software version 2.05 is also available with the built-in Fish Finder of TZT9F/12F/16F/19F v3.70.

With previous Auto Gain, a specific gain value was set and applied to each transducer type. Although it was effective to show fish targets and the seabed, echoes could look too strong at shallow water and too light at deep in some cases. With new software version 3.70, **gain is continuously adjusted, i.e., values increased or decreased, according to underwater conditions.** The improved Auto Gain process offers a variety of benefits compared to the previous software as shown in the following table.

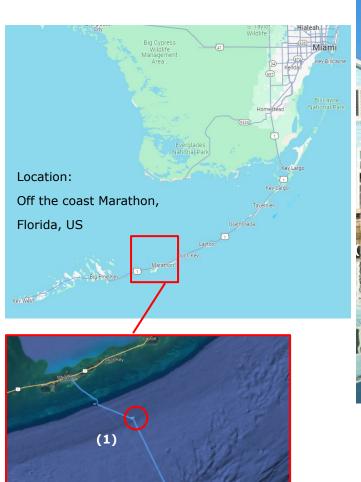
Characteristics by Scenes	NEW - V3.70	Previous – V3.56 or earlier
Shallow spots:	Gain will <u>NOT</u> be exaggerated.	While an overall return echo is
An overall noise level from return echoes		strong, the screen could look
can be stronger than deep water.		noisy.
Deep spots:	Gain will <u>NOT</u> be suppressed.	While an overall return echo is
An overall noise level from return echoes		weak, the screen could look light.
can be weaker than shallow water.		
Running:	Gain will <u>NOT</u> be exaggerated.	The screen could look noisy due to
While a boat runs especially at speed, the		highlighted echoes from the
surface layer can be saturated by bubbles.		saturated sea surface.
Variable water quality:	Gain will be <u>continuously</u>	The screen could look noisy or light
Water quality varies depending on	adjusted according to these	according to changes in water
locations, weather, and other conditions.	changes in water quality	quality environments.
For example, in sea areas near river	environments.	
mouths after rain, the reflection is strong		
due to fine sand particles. The reflection		
intensity also changes depending on the		
amount of plankton.		

Notes:

- (1) The new auto gain is available with both [Fishing] and [Cruising] modes.
- (2) The new auto gain is available with both CHIRP and CW transducers.

Proven Performance

The following screenshots compare between the improved process by v3.70 and conventional v3.50.

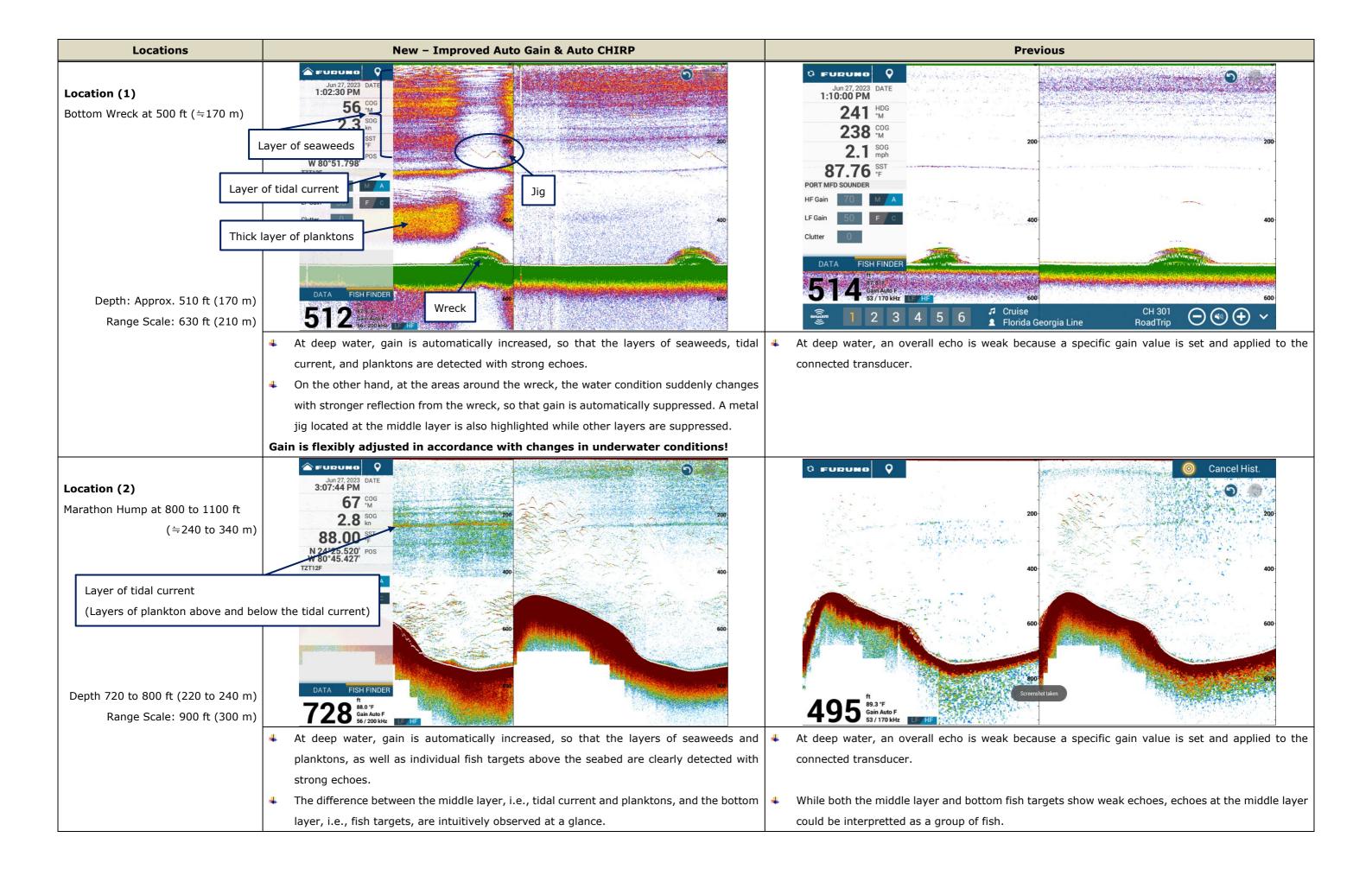




Boat: Yellowfin 39 ft

♣ Fish Finder: TZT12F + DI-FFAMP

Transducer: R109LHW



1.2. Updated Transducer List

(TZT9F/12F/16F/19F Built-in Fish Finder only)

The TZT9F/12F/16F/19F built-in Fish Finder supports the following middle-frequency, wide type CHIRP transducers.

Transducer	Power Rating	Frequency	Mounting	ACCU-FISH™ Bottom Discrimination RezBoost™
B175MW *(1)			Thru-Hull	Not supported
SS175MW	1 kW	600-100 kHz	Thru-Hull, Stainless	Not supported
TM185MW			Transom	Not supported

Note:

(1) With previous software versions, this transducer was listed as [B175MUW]. With new version 3.70, it is indicated as [B175MW].

2. Network with NavNet TZtouchXL Series MFDs

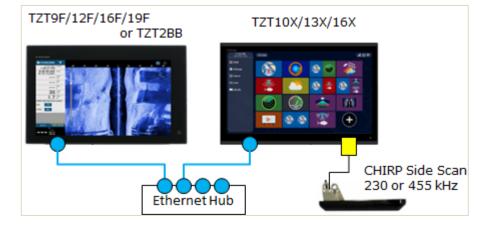
2.1. NavNet TZtouchXL Series - TZT10X/13X/16X/22X/24X

The TZT9F/12F/16F/19F v3.70 and TZT2BB v9.70 support network with the new NavNet TZtouchXL series MFDs – TZT10X/13X/16X/22X/24X. When these MFDs are present in the same network, make sure to update the TZT9F/12F/16F/19F to v3.70 and TZT2BB to v9.70.

2.2. NavNet TZtouchXL Series - TZT10X/13X/16X Built-in CHIRP Side Scan

While the new TZT10X/13X/16X has a built-in CHIRP Side Scan, compatible with both 230 kHz and 455 kHz, CHIRP Side Scan images can be shown and adjusted on the networked TZT9F/12F/16F/19F and TZT2BB.

As an example, the TZT12F/16F/19F can physically supports 230 type CHIRP Side Scan transducers only, not 455 kHz. However, when the TZT10X/13X/16X with a 455 kHz type CHIRP Side Scan transducer is networked with the TZT9F/12F/16F/19F and TZT2BB, a CHIRP Side Scan screen is available for operation and menu settings.



3. Details of Software Versions

The following table shows the detailed indications of updated items on the TZT9F/12F/16F/19F and TZT2BB.

Items	TZT9F/12F/16F/19F	TZT2BB	
First Boot	1950210- 03.70 (Prev. 03.56)	1950176- 09.70 (Prev. 09.56)	
Second Boot *(1)	1950211- 03.70 (Prev. 03.56)	1950177- 09.70 (Prev. 09.56)	
System Version (OS)	1950212- 03.70 (Prev. 03.56)	1950178- 09.70 (Prev. 09.56)	
Application	1950213- 03.70 (Prev. 03.56)	1950152- 09.70 (Prev. 09.56)	
Self-Test Version *(1)	1950214- 03.70 (Prev. 03.56)	1950153- 01.28 (Prev. 01.27)	
Built-in Fish Finder: Main	1950203- 03.70 (Prev. 03.50)	Not updated (1950175-01.05)	
HTML Package	1950220- 03.70 (Prev. 03.56)		
eGuide	E42-01903- I (PrevH)	E42-02306- B (PrevA)	

^{*(1)} The Second Boot and Self-Test versions can be checked on Service Menu only.

4. Others

(1) Improvement: New partners are added for browser capability via HTML5.

CMC Marine: Added
SeakeeperRide: Added

Lumishore: Icon design changed

SEA.AI: Name and icon indications changed from OSCAR

(2) Change: Service Menu requires no password entry to comply with the latest UK PSTI regulation.

(3) **Change**: [Complete System Wipe] is removed from Reset Menu.

(4) **Change**: NMEA0183 **TTM** sentence is **NOT** output in the following configuration.

The TZT9F/12F/16F/19F v3.70 and TZT2BB v9.70 are networked with NavNet TZtuchXL series MFDs and DRS2D-/4D-/6A-/12A-/25A-NXT for AI Avoidance. The new AI Avoidance function on NavNet TZtouchXL series MFDs refers to very unique, proprietary Target Tracking (TT) data from the DRS2D-/4D-/6A-/12A-/25A-NXT. This TT data, i.e., TTM, is not output from the networked MFDs including the TZT9F/12F/16F/19F v3.70 and TZT2BB v9.70.

(5) **Change**: The priority order of NMEA2000 data input is properly processed: Devices with smaller device instances are prioritized. Among the devices with the same device instance, the one with a smaller Name Field is prioritized.

--- END ---

⁻ All brand and product names are registered trademarks, trademarks or service marks of their respective holders.