FURUNO FAQ

Quelles sondes sont compatibles avec le DFF3-UHD ?

Liste des sondes CHIRP compatibles avec le DFF3-UHD

Modèle	Fréquence	Puissance	Largeur faiseaux	Type d'installation Installation	Temp/TDID	Version
R109LM	38-75 kHz 80-130 kHz	2 kW 2 kW	19-10° 13-18°	External Thru-Hull	✔/✔	V1
R109LH	38-75 kHz 130-210 kHz	2 kW 2 kW	19-10° 8-4°	External Thru-Hull	✔/✔	V2
R109LHW	38-75 kHz 150-250 kHz	2 kW 1 kW	19-10° 25°	External Thru-Hull	✔/✔	V1
R111LM	38-75 kHz 80-130 kHz	2 kW 2 kW	19-10° 13-8°	In-Hull	✔/✔	V2
R111LH	38-75 kHz 130-210 kHz	2 kW 2 kW	19-10° 8-4°	In-Hull	✔/✔	V1
R409LWM	40-60 kHz 80-130 kHz	2 kW 2 kW	40° 13-8°	External Thru-Hull	✔/✔	V2
PM111LM	38-75 kHz 80-130 kHz	2 kW 2 kW	19-10° 13-8°	Keel, Pocket	✔/✔	V1
PM111LH / PM111LHG	38-75 kHz 130-210 kHz	2 kW 2 kW	19-10° 8-4°	Keel, Pocket	✔/✔	V1
PM111LHW	38-75 kHz 150-250 kHz	2 kW 1 kW	19-10° 25°	Keel, Pocket	✔/✔	V1
PM411LWM	40-60 kHz 80-130 kHz	2 kW 2 kW	40° 13-8°	Keel, Pocket	✔/✔	V1
CM599LM	28-60 kHz 80-130 kHz	3 kW 2 kW	23-9° 13-8°	Tank, Keel, Pocket	✔/✔	V1
CM599LH / CM599LHG	28-60 kHz 130-210 kHz	3 kW 2 kW	23-9° 8-4°	Tank, Keel, Pocket	✔/✔	V1
CM599LHW	28-60 kHz 150-250 kHz	3 kW 1 kW	23-9° 25°	Tank, Keel, Pocket	✔/✔	V1
R509LM	28-60 kHz 80-130 kHz	3 kW 2 kW	23-9° 13-8°	External Thru-Hull	✔/✔	V1

Modèle	Fréquence	Puissance	Largeur faiseaux	Type d'installation Installation	Temp/TDID	Version
R509LH	28-60 kHz 130-210 kHz	3 kW 2 kW	23-9° 8-4°	External Thru-Hull	✔/✔	V2
R509LHW	28-60 kHz 150-250 kHz	3 kW 1 kW	23-9° 25°	External Thru-Hull	✔/✔	V1
R599LM	28-60 kHz 80-130 kHz	3 kW 2 kW	23-9° 13-8°	In-Hull	✔/✔	V1
R599LH	28-60 kHz 130-210 kHz	3 kW 2 kW	23-9° 8-4°	In-Hull	✔/✔	V1
165T-PM542LM	30-60 kHz 80-130 kHz	2kW 2kW	19-10° 13-8°	In-Hull	✔/✔	V1
165T-PM542LHW	30-60 kHz 150-250kHz	2kW 1kW	19-10° 25°	In-Hull	✔/✔	V1

Notes:

(1) R109LH, R111LM, R409LWM et R509LH surlignés en jaune seront compatibles avec la future mise à jour logiciel 2.xx.

(2) Les sondes de type G, c'est-à-dire PM111LHG et CM599LHG, pour le FCV-1900G peuvent également être connectées. Cependant, la liste des sondes dans le menu affiche uniquement les noms de modèles sans indication de "G", c'est-à-dire [PM111LH] et [CM599LH]. Assurez-vous de sélectionner ces modèles lorsque les types G sont installés.

Liste des sondes conventionnelles CW compatibles avec le DFF3-UHD V2

Model	Frequency	Output	Beam Angle	Installation	Temp	TD-ID	Remarks
28BL-6HR	28.8 kHz	2 kW	21°×31°	CM	N/A	N/A	
28BL-12HR		3 kW	16°×21°	CM	N/A	N/A	
28F-38M		5 kW	14°	CM	N/A	N/A	BT-5 required
28F-72		10 kW	12°×16°	CM	N/A	N/A	BT-5 required
38BL-9HR	38 kHz	2 kW	21°×21°	CM	N/A	N/A	
38BL-15HR		3 kW	12°×20°	CM	N/A	N/A	
50BL-12HR	50 kHz	2 kW	14°×18°	CM	N/A	N/A	
50BL-24HR		3 kW	9°×14°	CM	N/A	N/A	
50F-38		5 kW	8°	CM	N/A	N/A	BT-5 required
50F-70		10 kW	6°	CM	N/A	N/A	BT-5 required
68F-30H	68 kHz	3 kW	13°×12°	CM	N/A	N/A	
82B-35R	68 kHz	2 kW	12.5°	CM	N/A	N/A	

Model	Frequency	Output	Beam Angle	Installation	Temp	TD-ID	Remarks
	82 kHz		9.8°				Select one of the frequencies
	88 kHz		9.6°				
	107 kHz		7.7°				
88B-10	88 kHz	2 kW	11°	CM	N/A	N/A	
88F-126H		5 kW	4°×6°	CM	N/A	N/A	
100B-10R	107 kHz	3 kW	10°	CM	N/A	N/A	
150B-12H	150 kHz	3 kW	4°	CM	N/A	N/A	
200B-8	200 kHz	2 kW	6°	CM	N/A	N/A	
200B-8B		2 kW	6°	CM	N/A	N/A	
200B-12H		5 kW	4°	CM	N/A	N/A	

Notes:

(1) Les sondes 5 kW et 10 kW peuvent être connectées au DFF3-UHD via BT-5 pour rétrofit sur un bateau avec ces sondes déjà installées. La puissance de sortie appliquée par le DFF3-UHD à ces sondes est de 3 kW maximum.

(2) Tous ces sondes CW listés ci-dessus seront compatibles avec la future mise à jour logicielle vers v2.xx.

Note sur les Limitations

(1) Les sondes CHIRP de type 1/1 kW (par exemple, B265LH) et 600 W-1 kW CW ne sont PAS compatibles. Pour ces types de sondes, connectez-vous au sondeur intégré du MFD ou du DFF1-UHD.

(2) Les fonctions ACCU-FISH et Discrimination du fond ne sont PAS disponibles.

1.1. Comparison – FURUNO Models

The following table shows specifications of DFF3-UHD in comparison with other FURUNO network Fish Finder models including built-in types.

Category	DFF3-UHD	DFF3	DI-FFAMP	TZT12F/16F/19F Built-in Fish Finder	TZT9F Built-in Fish Finder	TZTL12F/15F/2BB Built-in Fish Finder	BBDS1	DFF1 (Discontinued)	DFF1-UHD
Appearance									
TX Type	Dual Band CHIRP and CW	CW only	Dual Band CHIRP and CW	Dual Band CHIRP and CW (RezBoost)	Single Band CHIRP and CW (RezBoost)	CW only (RezBoost)	CW only	CW only	Dual Band CHIRP
Output Power	CHIRP: Max. 3 kW (Not 1/1 kW type) CW: 2/3 kW	1/2/3 kW	2/3 kW	300 W (CHIRP) 600 W 1 kW	300 W (CHIRP) 600 W 1 kW	300 W (CHIRP) 600 W 1 kW	600 W 1 kW	600 W 1 kW	1 kW
Frequency	25 to 242 kHz	28 to 200 kHz	26.6 to 242 kHz	50/200 kHz (CW) 40 to 225 kW	50/200 kHz (CW) 40 to 225 kW	50/200 kW	50/200 kW	50/200 kW	50/200 kW
BT-5 for 5/10 kHz CW transducer	Compatible	Compatible	Compatible	-	-	-	-	-	-
Range Scale	3,000 m (5,000 m by shifting max. 2,000 m)	3,000 m	3,000 m	1,200 m	1,200 m	1,200 m	1,200 m	1,200 m	1,200 m
Interconnection	Connect to MFD network via Ethernet	Connect to MFD network via Ethernet	Connect to TZT12F/16F/19F	Connect to MFD network via Ethernet	Connect to MFD network via Ethernet	Connect to MFD network via Ethernet	Connect to MFD network via Ethernet	Connect to MFD network via Ethernet	Connect to MFD network via Ethernet
Networked MFDs	TZT2BB (TZTL12F/15F TBD) NavNet TZtouch3	NavNet 3D NavNet TZtouch NavNet TZtouch2 NavNet TZtouch3	NavNet TZtouch2 NavNet TZtouch3	NavNet TZtouch2 NavNet TZtouch3	NavNet TZtouch2 NavNet TZtouch3	NavNet TZtouch NavNet TZtouch2 NavNet TZtouch3	NavNet 3D NavNet TZtouch NavNet TZtouch2 NavNet TZtouch3	NavNet 3D NavNet TZtouch NavNet TZtouch2 NavNet TZtouch3	TZT2BB (TZTL12F/15F TBD) NavNet TZtouch3
ACCU-FISH	N/A	Available with some 1 kW transducers	N/A	Available with some CW and CHIRP transducers	Available with some CW transducers	Available with some transducers	Available with some transducers	N/A	Available with some transducers
Bottom Discrimination	N/A	N/A	N/A	Available with some CW transducers	Available with some CW transducers	Available with some transducers	Available with some transducers	N/A	Available with some transducers
Power Supply	12-24 VDC	12-24 VDC	12-24 VDC	12-24 VDC	12-24 VDC	12-24 VDC	12-24 VDC	12-24 VDC	12-24 VDC
Power Consumption	3.0-1.6 A	2.8-1.4 A	3.2-1.9 A	-	-	-	1.1-0.4 A (at 1 kW)	1.1-0.4 A (at 1 kW)	2.8-1.4 A
Protection Level	IP55	IP20	IP22	-	-	-	IP20	IP20	IP55
Dimensions	380×120×299 mm excl. connectors	380×120×299 mm excl. connectors	385×88×356 mm excl. connectors	-	-	-	255×90×219 mm excl. connectors	255×90×219 mm excl. connectors	380×120×299 mm excl. connectors
Weight	3.6 kg	3.9 kg	6.3 kg	-	-	-	1.2 kg	1.2 kg	3.2 kg

1.2. Comparison – Competitors

The following table shows specifications of DFF3-UHD in comparison with competitors' models in the similar output power range. Indications of values are extracted from each company's websites or brochures.

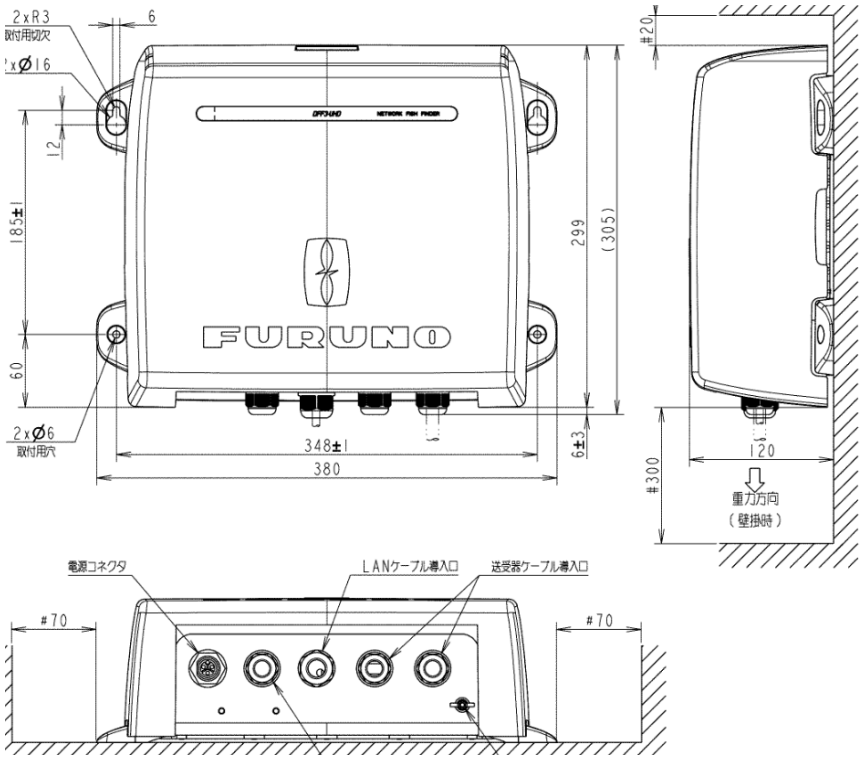
	FURUNO	FURUNO	FURUNO	Garmin	Simrad	Raymarine	Raymarine
Category	**DFF3-UHD**	**DFF3**	**DI-FFAMP**	**GSD26**	**S5100**	**CP570**	**CP470**
Appearance							
TX Type	Dual Band CHIRP and CW	CW only	Dual Band CHIRP and CW	Dual Band CHIRP	Triple Band CHIRP	Dual Band CHIRP (Wide Spectrum CHIRP)	Dual Band CHIRP (Wide Spectrum CHIRP)
Output Power	CHIRP: Max. 3 kW (Not 1/1 kW type) CW: 2/3 kW	1/2/3 kW	2/3 kW	25-3,000 W rms	Up to 3 kW depending on transducer	Max. 4kW output using 2 independent CHIRP channels	1kW / 2kW
Frequency	25 to 242 kHz	28 to 200 kHz	26.6 to 242 kHz	25-250 kHz	25-250 kHz	25 to 250kHz	25 to 250kHz
BT-5 for 5/10 kHz CW transducer	Compatible	Compatible	Compatible	-	-	-	-
Range Scale	3,000 m (5,000 m by shifting max. 2,000 m)	3,000 m	3,000 m	3,048 m (10,000 ft)	3,000 m	3,000 m	3,000 m
Interconnection	Connect to MFD network via Ethernet	Connect to MFD network via Ethernet	Connect to TZT12F/16F/19F	Connect to MFD network via Ethernet	Connect to MFD network via Ethernet	Connect to MFD network via Ethernet	Connect to MFD network via Ethernet
Networked MFDs	TZT2BB (TZTL12F/15F TBD) NavNet TZtouch3	NavNet 3D NavNet TZtouch NavNet TZtouch2 NavNet TZtouch3	NavNet TZtouch2 NavNet TZtouch3	GPSMAP series MFDs	NSS/NSO series MFDs, etc.	aSeries, cSeries, eSeries, New eS Series, gS Series	aSeries, cSeries, eSeries, gS Series
ACCU-FISH	N/A	Available with some 1 kW transducers	N/A	-	-	-	-
Bottom Discrimination	N/A	N/A	N/A	-	-	-	-
Power Supply	12-24 VDC	12-24 VDC	12-24 VDC	10-35 V	12 or 24 (10.4 - 31.2)	12/24 VDC	12/24 VDC
Power Consumption	3.0-1.6 A	2.8-1.4 A	3.2-1.9 A	100 W maximum	23 W	30.6 W (Maximum)	30.6 W (Maximum)
Protection Level	IP55	IP20	IP22	IPX7	IPX5	IPX6	IPX6
Dimensions	380×120×299 mm excl. connectors	380×120×299 mm excl. connectors	385×88×356 mm excl. connectors	274×373×100 mm	340 x 100 x 250 mm excl. connectors 378 mm D incl. connectors	352.5×249.9×109.9 mm incl. connectors	299.4×201.5×84.4 mm incl. connectors
Weight	3.6 kg	3.9 kg	6.3 kg	5.16 kg	4.7 kg	6.35 kg	1.539 kg

2. Installing DFF3-UHD

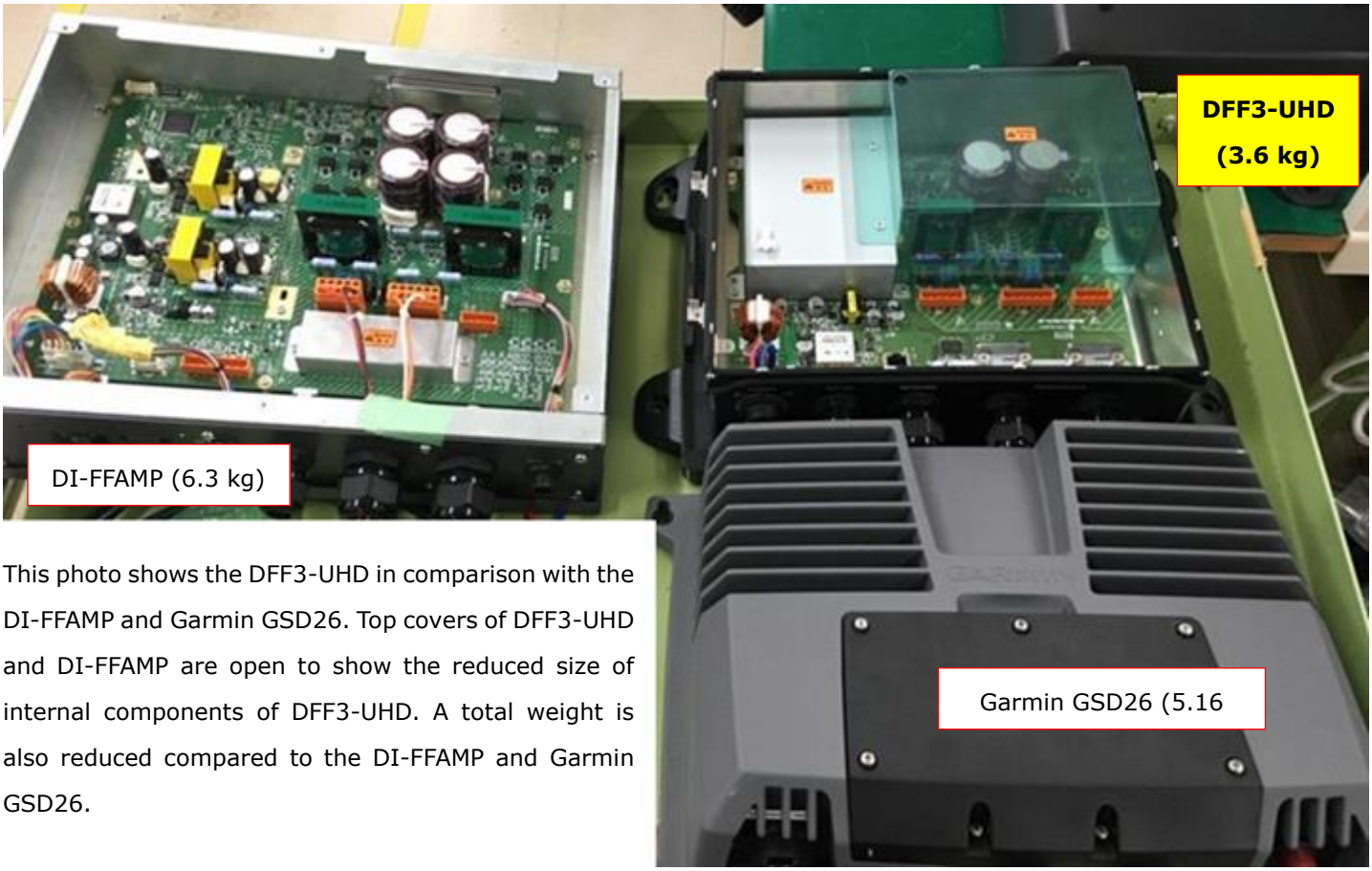
2.1. Dimensions

DFF3-UHD

The same housing as the DFF-3D and DFF3 is utilized, thus having the same external dimensions.



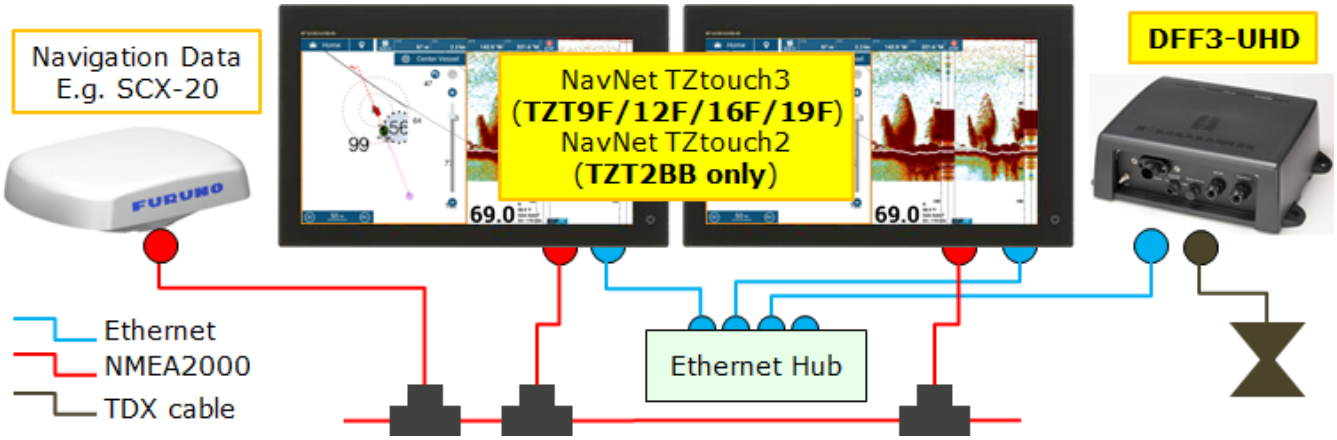
Comparison in Size



This photo shows the DFF3-UHD in comparison with the DI-FFAMP and Garmin GSD26. Top covers of DFF3-UHD and DI-FFAMP are open to show the reduced size of internal components of DFF3-UHD. A total weight is also reduced compared to the DI-FFAMP and Garmin GSD26.

2.2. Interconnection

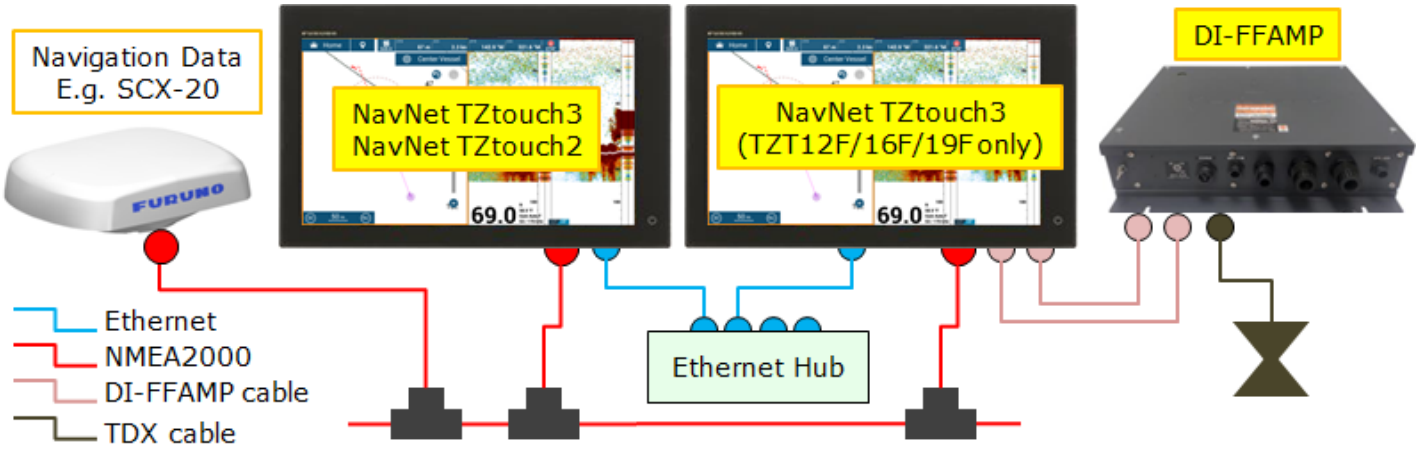
The DFF3-UHD has with two (2) transducer ports, network (Ethernet) port, external KP, and power ports. Connect the DFF3-UHD to the Ethernet network of TZT9F/12F/16F/19F (v3.01) and TZT2BB (v9.01). In order to utilize the Heave Correction function, a SATELLITE COMPASS™ such as SCX-20 or SC-70 is connected.



Connectors:

Comparison with DI-FFAMP:

The DI-FFAMP can be connected to the TZT12F/16F/19F – DI-FFAMP and TDX ports in order to amplify the TX of built-in Fish Finder. Fish Finder echoes from the TZT12F/16F/19F with DI-FFAMP are shared in the network.



3. Compatible Displays and Software Versions

The DFF3-UHD is compatible with the TZT9F/12F/16F/19F v3.01 and TZT2BB v9.01, **NOT** compatible with NavNet 3D or TZtouch series MFDs. Compatibility with the TZTL12F/15F is not scheduled yet.

Displays	Versions	Remarks
NavNet 3D – MFD8/12/BB	**NOT** supported	–
NavNet TZtouch – TZT9/14/BB	**NOT** supported	–
NavNet TZtouch2 – TZTL12F/15F	**NOT** supported	–
NavNet TZtouch2 – TZT2BB	**V9.01**	Planned in Spring 2022 to coincide with DFF3-UHD launch
NavNet TZtouch3 – TZT9F/12F/16F/19F	**V3.01**	

4. DFF3-UHD – Software Update Plan

Software update to version 2.xx is planned.

Schedule: TBD

(1) Compatibility with CW transducers and some TruEcho CHIRP™ transducers

See **Section 2.2** for details.

(2) Preset Frequency

The preset frequency like the TZT12F/16F/19F built-in Fish Finder and DI-FFAMP will be added. TX channels can be set to specific frequency depending on the fishing location and target species.

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