



# THE TELEDYNE ODOM HYDROGRAPHIC FAMILY OF SINGLE BEAM ECHO SOUNDERS

## Pick your Perfect Transducer...

**Types of Mount**

There are 4 methods of mounting a single beam transducer:

**Over the Side.** This is often a temporary fit where a pole is used to mount the transducer over the side of the vessel. Typically the transducer is attached on to the pole using a threaded stem.

**Hull Mount.** A permanent fit where the face of the transducer is installed flush with the vessel hull.

**Tank Mount.** A method of permanently fitting a transducer using a fabricated tank in the vessel's hull.

**Flange Mount.** A permanent through hull fit where the transducer has an inbuilt flange.

**Frequency**

In broad terms, high frequencies have a better resolution but attenuate (lose power in the water column) much more than lower frequencies. Lower frequencies have less resolution but have less attenuation, can sound deeper and can often penetrate soft seabeds to give texture information.

Typically 200 KHz is used for bathymetric sounding in shallow water.

**Beamwidth**

The narrower the beamwidth, the smaller the footprint on the sea floor and therefore the better the along track resolution of the echo sounder. This is especially important when sounding slopes and areas where the depths change rapidly.

Wide beamwidth      Narrow beamwidth

**Step 1:** Select the product best suited to your **Type of Mount**

**Step 2:** Narrow your choice by **Frequency** matched with the **Depth of Water** you wish to sound

**Step 3:** Verify your selection by comparing **Specifications**



	SS510	M194	M192	M74	M177															
						SMBB200-9	SMSW200-4A	SMB200-3	FMBB200-9	TM33-19	TM24-20	HM15-17	HMBB12-20	THP200/24-4/20	OTSB200/33-5/23	OTSB200/24-9/25	HMBB200/24-4/20	OTS200/33-8-23	SS340-0.5X50 Sidescan	SS200-0.7X50 Sidescan
<b>Type of Mount</b>																				
Over the Side (OTS)	•	•	•											•	•	•			•	•
Hull Mount (HM)	•	•	•							•	•	•	•				•			
Tank Mount (TM)										•	•			•						
Flange Mount (FM)									•											
<b>Frequency (KHz)</b>	200	200	200	200	33	24	15	12	200	200	200	200	200	200	200	200	200	200	340	200
<b>Depth of Water (recommended)</b>																				
100m	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
200m	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
500m					•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1000m					•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1500m +					•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
<b>Specifications</b>																				
Beamwidth (degrees)	9	4	3	9	19	20	17	20	4	5	9	4	8	0.5	0.5					
Number of Channels	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	1	1
Weight (Kg)	1.5	2.1	4.6	0.5	9.5	10	39	74.5	14.5	6.5	14.5	21	5	2.94	6					
Housing Shape	SS510-2	SS538	SS549	M194	M192	M192-2	M74	M74-2	M108	M177-2	M42	M175-2	M191	134-2	SS82					

Notes: 1. Specifications and capabilities of individual transducers may vary – the above information should be used for guidance only. Consult the individual technical sheets for exact specifications  
 2. The transducers listed above are our most popular – we have a much wider range of more specialist transducers available upon request