

Deep Water Operation (5000m and greater) - Initial Settings

Parameter	Setting	Additional Notes
Range	5000m	
Phase	non-zero based window	Active window = 2500 -7500m Active window = 5000 -10000m
Autophase	OFF	
Minimum depth limit	0m	If scattering layers or thermoclines are apparent at a particular depth in the water column, adjust this value to a depth greater than the interference layer.
Maximum depth limit	12000m	If absolute max depth is know, this should be set accordingly
Tracking Gate	50m	If channel is seeing a large amount of sub-bottom layering, increase this value to be larger than the spacing of the layering
Primary Channel	3.5kHz	
Transmit Blanking	100m	Adjusted as needed to see past any transducer ringing.
Signal Waveform	Chirp	
Tx Pulselength	16ms and up	Increase the pulselength for deeper depths, to allow the transfer of more energy into the water for stronger returns
Tx Power	3 to 4	Increase the power for deeper depths, to allow the transfer of more energy into the water for stronger returns
AGC	ON	
Processing Shift (Digital Gain)	2-4	Normally a low process shift should be adequate but if a bottom is visible and AGC is pushing the analog gain past 50db, try increasing slowly until analog gain used drops below 50dB.
TVG	OFF	
Multiple Pings	OFF	Obtain a bottom and ensure bottom tracking before enabling this feature.

Note: Once a bottom is acquired, range can be reduced and controls can be adjusted.