

# Several Installation Methods for Broadband / CHIRP Transducers



Thru-Hull 1 kW B265LH	Thru-Hull 2 kW R109LH	Thru-Hull 2-3 kW R509LH	In-Hull 1 kW M265LH	In-Hull & Pocket /Keel-Mount 2 kW PM111/R111LH	In-Hull 2-3 kW R599LH	Transom-Mount 1 kW TM265LH	Tank-Mount 1 kW CM265LH	Pocket/Keel-Mount 1 kW PM265LH	Tank-Mount/Pocket/Keel-Mount 2-3 kW CM599LH	Thru-Hull 600 W* B765LH*	Tilted Element™ 600 W* B75L*	Tilted Element™ 1 kW B175L
<ul style="list-style-type: none"> <li>CHIRP-ready across the following bandwidths:                             <ul style="list-style-type: none"> <li>Low-Frequency: 42-65 kHz</li> <li>25° to 16° port-starboard beamwidth</li> <li>High-Frequency: 130-210 kHz</li> <li>10° to 6° beamwidth</li> </ul> </li> <li>CHIRP-ready across the following bandwidths:                             <ul style="list-style-type: none"> <li>Low-Frequency: 42-65 kHz</li> <li>25° to 16° port-starboard beamwidth</li> <li>Medium-Frequency: 85-135 kHz</li> <li>16° to 11° beamwidth</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>CHIRP-ready across the following bandwidths:                             <ul style="list-style-type: none"> <li>Low-Frequency: 38-75 kHz</li> <li>19° to 10° port-starboard beamwidth (10° to 5° fore-aft beamwidth)</li> <li>High-Frequency: 130-210 kHz</li> <li>8° to 4° beamwidth</li> </ul> </li> <li>CHIRP-ready across the following bandwidths:                             <ul style="list-style-type: none"> <li>Low-Frequency: 38-75 kHz</li> <li>19° to 10° port-starboard beamwidth (10° to 5° fore-aft beamwidth)</li> <li>Medium-Frequency: 80-130 kHz</li> <li>13° to 8° beamwidth</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>CHIRP-ready across the following bandwidths:                             <ul style="list-style-type: none"> <li>Low-Frequency: 28-60 kHz</li> <li>23° to 9° port-starboard beamwidth (11° to 5° fore-aft beamwidth)</li> <li>High-Frequency: 130-210 kHz</li> <li>8° to 4° beamwidth</li> </ul> </li> <li>CHIRP-ready across the following bandwidths:                             <ul style="list-style-type: none"> <li>Low-Frequency: 28-60 kHz</li> <li>23° to 9° port-starboard beamwidth (11° to 5° fore-aft beamwidth)</li> <li>Medium-Frequency: 80-130 kHz</li> <li>13° to 8° beamwidth</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>CHIRP-ready across the following bandwidths:                             <ul style="list-style-type: none"> <li>Low-Frequency: 42-65 kHz</li> <li>25° to 16° port-starboard beamwidth (10° to 5° fore-aft beamwidth)</li> <li>High-Frequency: 130-210 kHz</li> <li>10° to 6° beamwidth</li> </ul> </li> <li>CHIRP-ready across the following bandwidths:                             <ul style="list-style-type: none"> <li>Low-Frequency: 42-65 kHz</li> <li>25° to 16° port-starboard beamwidth (10° to 5° fore-aft beamwidth)</li> <li>Medium-Frequency: 85-135 kHz</li> <li>16° to 11° beamwidth</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>CHIRP-ready across the following bandwidths:                             <ul style="list-style-type: none"> <li>Low-Frequency: 38-75 kHz</li> <li>19° to 10° port-starboard beamwidth (10° to 5° fore-aft beamwidth)</li> <li>High-Frequency: 130-210 kHz</li> <li>8° to 4° beamwidth</li> </ul> </li> <li>CHIRP-ready across the following bandwidths:                             <ul style="list-style-type: none"> <li>Low-Frequency: 38-75 kHz</li> <li>19° to 10° port-starboard beamwidth (10° to 5° fore-aft beamwidth)</li> <li>Medium-Frequency: 80-130 kHz</li> <li>13° to 18° beamwidth</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>CHIRP-ready across the following bandwidths:                             <ul style="list-style-type: none"> <li>Low-Frequency: 28-60 kHz</li> <li>23° to 9° port-starboard beamwidth (11° to 5° fore-aft beamwidth)</li> <li>High-Frequency: 130-210 kHz</li> <li>8° to 4° beamwidth</li> </ul> </li> <li>CHIRP-ready across the following bandwidths:                             <ul style="list-style-type: none"> <li>Low-Frequency: 28-60 kHz</li> <li>23° to 9° port-starboard beamwidth (11° to 5° fore-aft beamwidth)</li> <li>Medium-Frequency: 85-135 kHz</li> <li>16° to 11° beamwidth</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>CHIRP-ready across the following bandwidths:                             <ul style="list-style-type: none"> <li>Low-Frequency: 42-65 kHz</li> <li>25° to 16° port-starboard beamwidth</li> <li>High-Frequency: 130-210 kHz</li> <li>10° to 6° beamwidth</li> </ul> </li> <li>CHIRP-ready across the following bandwidths:                             <ul style="list-style-type: none"> <li>Low-Frequency: 42-65 kHz</li> <li>25° to 16° port-starboard beamwidth</li> <li>Medium-Frequency: 85-135 kHz</li> <li>16° to 11° beamwidth</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>CHIRP-ready across the following bandwidths:                             <ul style="list-style-type: none"> <li>Low-Frequency: 42-65 kHz</li> <li>25° to 16° port-starboard beamwidth</li> <li>High-Frequency: 130-210 kHz</li> <li>10° to 6° beamwidth</li> </ul> </li> <li>CHIRP-ready across the following bandwidths:                             <ul style="list-style-type: none"> <li>Low-Frequency: 42-65 kHz</li> <li>25° to 16° port-starboard beamwidth</li> <li>Medium-Frequency: 85-135 kHz</li> <li>16° to 11° beamwidth</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>CHIRP-ready across the following bandwidths:                             <ul style="list-style-type: none"> <li>Low-Frequency: 42-65 kHz</li> <li>25° to 16° port-starboard beamwidth</li> <li>High-Frequency: 130-210 kHz</li> <li>10° to 6° beamwidth</li> </ul> </li> <li>CHIRP-ready across the following bandwidths:                             <ul style="list-style-type: none"> <li>Low-Frequency: 42-65 kHz</li> <li>25° to 16° port-starboard beamwidth</li> <li>Medium-Frequency: 85-135 kHz</li> <li>16° to 11° beamwidth</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>CHIRP-ready across the following bandwidths:                             <ul style="list-style-type: none"> <li>Low-Frequency: 28-60 kHz</li> <li>23° to 9° port-starboard beamwidth (11° to 5° fore-aft beamwidth)</li> <li>High-Frequency: 130-210 kHz</li> <li>8° to 4° beamwidth</li> </ul> </li> <li>CHIRP-ready across the following bandwidths:                             <ul style="list-style-type: none"> <li>Low-Frequency: 28-60 kHz</li> <li>23° to 9° port-starboard beamwidth (11° to 5° fore-aft beamwidth)</li> <li>Medium-Frequency: 80-130 kHz</li> <li>13° to 8° beamwidth</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>CHIRP-ready across the following bandwidths:                             <ul style="list-style-type: none"> <li>Low-Frequency: 40-75 kHz</li> <li>32° to 21° beamwidth</li> <li>High-Frequency: 130-210 kHz</li> <li>15° to 9° beamwidth</li> </ul> </li> <li>CHIRP-ready across the following bandwidths:                             <ul style="list-style-type: none"> <li>Low-Frequency: 40-75 kHz</li> <li>32° to 21° beamwidth</li> <li>Medium-Frequency: 80-130 kHz</li> <li>24° to 16° beamwidth</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>CHIRP-ready across the following bandwidths:                             <ul style="list-style-type: none"> <li>Low-Frequency: 40-75 kHz</li> <li>32° to 21° beamwidth</li> <li>High-Frequency: 130-210 kHz</li> <li>15° to 9° beamwidth</li> </ul> </li> <li>CHIRP-ready across the following bandwidths:                             <ul style="list-style-type: none"> <li>Low-Frequency: 40-75 kHz</li> <li>32° to 21° beamwidth</li> <li>Medium-Frequency: 80-130 kHz</li> <li>24° to 16° beamwidth</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>CHIRP-ready across the following bandwidths:                             <ul style="list-style-type: none"> <li>Low-Freq.: 40-60 kHz</li> <li>32° to 21° beamwidth</li> <li>7 Internal Broadband Ceramics</li> </ul> </li> <li>CHIRP-ready across the following bandwidths:                             <ul style="list-style-type: none"> <li>Medium-Frequency: 85-135 kHz</li> <li>16° to 11° beamwidth</li> <li>1 Internal Broadband Ceramic</li> </ul> </li> <li>CHIRP-ready across the following bandwidths:                             <ul style="list-style-type: none"> <li>High-Frequency: 130-210 kHz</li> <li>10° to 6° beamwidth</li> <li>1 Internal Broadband Ceramic</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>8 Internal Broadband Ceramics</li> <li>Depth &amp; temp.</li> <li>Boat Size: Up to 8 m (25')</li> <li>Hull Type:                             <ul style="list-style-type: none"> <li>Fiberglass</li> <li>Wood</li> </ul> </li> <li>Can retrofit to existing B260 install</li> <li>Includes Transducer ID®</li> </ul>	<ul style="list-style-type: none"> <li>16 Internal Broadband Ceramics</li> <li>Depth &amp; temp.</li> <li>Boat Size: Up to 12 m (40')</li> <li>Hull Type:                             <ul style="list-style-type: none"> <li>Fiberglass</li> <li>Wood</li> <li>Metal</li> </ul> </li> <li>Can retrofit to existing R99 install</li> <li>Includes Transducer ID®</li> </ul>	<ul style="list-style-type: none"> <li>25 Internal Broadband Ceramics</li> <li>Depth &amp; temp.</li> <li>Boat Size: Up to 12 m (40')</li> <li>Hull Type:                             <ul style="list-style-type: none"> <li>Fiberglass</li> <li>Wood</li> <li>Metal</li> </ul> </li> <li>Can retrofit to existing R209 install</li> <li>Includes Transducer ID®</li> </ul>	<ul style="list-style-type: none"> <li>8 Internal Broadband Ceramics</li> <li>Depth only</li> <li>Hull Type:                             <ul style="list-style-type: none"> <li>Solid Fiberglass hull only</li> </ul> </li> <li>Can mount in existing M260 installed tanks</li> <li>Includes Transducer ID®</li> </ul>	<ul style="list-style-type: none"> <li>16 Internal Broadband Ceramics</li> <li>Depth &amp; temp.</li> <li>Hull Type:                             <ul style="list-style-type: none"> <li>Solid Fiberglass hull</li> </ul> </li> <li>Can retrofit to existing R299 tanks</li> <li>Same shape and size as CM599 and CM199</li> <li>Also suitable for pocket/keel-mount installs without tank</li> <li>Includes Transducer ID®</li> </ul>	<ul style="list-style-type: none"> <li>25 Internal Broadband Ceramics</li> <li>Depth only</li> <li>Hull Type:                             <ul style="list-style-type: none"> <li>Solid Fiberglass hull only</li> </ul> </li> <li>Can retrofit to existing R299 tanks</li> <li>Same shape and size as CM599 and CM199</li> <li>Also suitable for pocket/keel-mount installs without tank</li> <li>Includes Transducer ID®</li> </ul>	<ul style="list-style-type: none"> <li>8 Internal Broadband Ceramics</li> <li>Depth &amp; temp.</li> <li>Boat Size: Up to 8 m (25')</li> <li>Hull Type:                             <ul style="list-style-type: none"> <li>Fiberglass</li> <li>Wood</li> <li>Metal</li> </ul> </li> <li>Can retrofit to existing TM258 &amp; TM260 bracket</li> <li>Includes Transducer ID®</li> </ul>	<ul style="list-style-type: none"> <li>8 Internal Broadband Ceramics</li> <li>Depth &amp; temp.</li> <li>Hull Type:                             <ul style="list-style-type: none"> <li>Fiberglass</li> <li>Wood</li> <li>Tank Installation</li> </ul> </li> <li>Cannot be pocket-mounted</li> <li>Recessed design ideal for tank mount installation</li> <li>Includes Transducer ID®</li> </ul>	<ul style="list-style-type: none"> <li>8 Internal Broadband Ceramics</li> <li>Depth &amp; temp.</li> <li>Hull Type:                             <ul style="list-style-type: none"> <li>Fiberglass only</li> <li>Tank Installation</li> </ul> </li> <li>Flat face design ideal for pocket/keel-mount installation</li> <li>Includes Transducer ID®</li> </ul>	<ul style="list-style-type: none"> <li>25 Internal Broadband Ceramics</li> <li>Depth &amp; temp.</li> <li>Hull Type:                             <ul style="list-style-type: none"> <li>Fiberglass only</li> <li>Tank Installation</li> </ul> </li> <li>Same shape and size as R599 and CM199</li> <li>Includes Transducer ID®</li> </ul>	<ul style="list-style-type: none"> <li>2 Internal Broadband Ceramics</li> <li>Depth &amp; temp.</li> <li>Boat Size: Up to 9 m (30')</li> <li>Hull Type:                             <ul style="list-style-type: none"> <li>Fiberglass</li> <li>Wood</li> </ul> </li> <li>All advantages of larger Thru-Hull CHIRP transducers, for smaller boats</li> <li>Includes Transducer ID®</li> </ul>	<ul style="list-style-type: none"> <li>1 Internal Broadband Ceramic</li> <li>Depth &amp; temp.</li> <li>Bronze housing</li> <li>Boat Size: Up to 8 m (25')</li> <li>Hull Type:                             <ul style="list-style-type: none"> <li>Fiberglass</li> <li>Wood</li> </ul> </li> <li>Includes Transducer ID®</li> </ul>	<ul style="list-style-type: none"> <li>Depth &amp; temp.</li> <li>Bronze housing</li> <li>Boat Size: Up to 11 m (36')</li> <li>Hull Type:                             <ul style="list-style-type: none"> <li>Fiberglass</li> <li>Wood</li> </ul> </li> <li>Includes Transducer ID®</li> </ul>

