Commercial Marine & Keel-Mount Transducers

CM250 CM265LH CM599LH Preliminary Lucer L

1kW

- Designed for tuna and marlin fishing
- Identical 25° beams at 50 kHz and 200 kHz
- 4 times wider at 200 kHz than all other
 1 kW transducers
- 1,000 Watts
- Fast-response temperature sensor
- Urethane Housing
- Operating Frequencies:
 LF—50 kHz
 HF—200 kHz
- 12 m (40') cable
- Beamwidth:
 LF—25° @ 50 kHz
 HF—25° @ 200 kHz
- Maximum Depth Range:
 LF—400 m to 610 m (1,350' to 2,000')
 HF—100 m to 180 m (330' to 600')

1kW

- Crystal clear image detail and resolution
- Distinguishes individual fish targets and fish tight to the bottom
- 1.000 Watts
- Fast-response temperature sensor
- Urethane Housing
- Operating Frequencies:
 LF—50 kHz
 HF—200 kHz
- 12 m (40') cable
- Beamwidth:
 LF—19° @ 50 kHz
 HF—6° @ 200 kHz
- Maximum Depth Range:
 LF—529 m to 735 m (1,800' to 2,500')
 HF—206 m to 294 m (700' to 1,000')

Tunable Transducers

- Operates at many popular commercial fishing frequencies
- Perfect for todays commercial sounders and next generation FM & CHIRP sounders
- 1,000 Watts RMS,18 to 25 continuous Watts
- Fast-response temperature sensor
- Urethane Housing
- Operating Frequencies:
 LF—42 kHz to 65 kHz
 HF—130 kHz to 210 kHz
- 12 m (40') cable
- Beamwidth: LF—18° to 25° HF—6° to 10°
- Boat Size: 12 m (40') and up
- Optionally available as CM265LM, low & medium-frequency (85 to 135 kHz)

- 2,000 Watts RMS,20 to 30 continuous Watts
- Fast-response temperature sensor
- Urethane Housing
- Operating Frequencies:
 LF—38 kHz to 75 kHz
 HF—130 kHz to 210 kHz
- 15 m (50') cable
- Beamwidth:
 LF—11° x 17° to 6° x 11°
 HF—7° to 5°
- Boat Size: 12 m (40') and up
- Optionally available as CM199LM, low & medium-frequency (85 to 135 kHz)

Commercial Fishing Installations

- Transducers can mount flush inside a conventional steel tank
- Cable can fit into existing stuffing tube
- Tuna, shirashu, baitfish, and dredging applications
- 30% to 40% more efficient than Japenese commercial transducers
- Q is also 3 times lower providing higher resolution and better discrimination of fish and seabed

Sportfishing Installations

- Transducers can mount flush in the keels of larger sportfishing vessels
- A flush installation reduces drag and delivers crystal clear imaging—even at high speeds
- One transducer can operate at various frequencies







www.airmar.com

CM270W

CM260

CM265LH

CM599LH



50 kHz-AWlq & 200 kHz-BM		
Number of Elements and Configuration	₩	
Beamwidth (@-3 dB)	25°	25°
RMS Power (W)	1 kW	1 kW
TVR	161 dB @ 50 kHz	165 dB @ 200 kHz
RVR	-175 dB @ 50 kHz	-194 dB @ 200 kHz
FOM	-19 dB @ 50 kHz	-30 dB @ 200 kHz
Q	4 @ 50 kHz	7 @ 200 kHz
Impedance	200 Ω @ 50 kHz	90 Ω @ 200 kHz

50 kHz-AE & 200 kHz-BH		
Number of Elements and Configuration	₩	
Beamwidth (@-3 dB)	19°	6°
RMS Power (W)	1 kW	1 kW
TVR	162 dB @ 50 kHz	175 dB @ 200 kHz
RVR	-173 dB @ 50 kHz	-183 dB @ 200 kHz
FOM	-14 dB @ 50 kHz	-10 dB @ 200 kHz
Q	8 @ 50 kHz	8 @ 200 kHz
Impedance	250 Ω @ 50 kHz	90 Ω @ 200 kHz

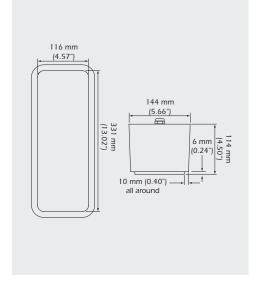
	42-65kHz	130-210 kHz
Elements	**	
Pulse Power	1 kW	1 kW
Nominal TVR	166 dB	172 dB
Nominal RVR	-179 dB	-184 dB
Nominal FOM	-13 dB	-12 dB
Impedance	100-250 Ω	100-250 Ω

	38-75 kHz	130-210 kHz
Elements		
Pulse Power	2 kW	2 kW
Nominal TVR	169 dB	177 dB
Nominal RVR	-178 dB	-184 dB
Nominal FOM	-11 dB	-7 dB
Impedance	100-250 Ω	100-250 Ω

BEAM DIAMETER VS DEPTH			
Depth	50 kHz	200 kHz	
9 m	4 m	4 m	
(30′)	(13′)	(13′)	
30 m	14 m	14 m	
(100')	(45′)	(45′)	
122 m	55 m	55 m	
(400')	(180′)	(180′)	
305 m	137 m	137 m	
(1,000')	(450′)	(450′)	

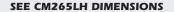
BEAM DIAMETER VS DEPTH		
Depth	50 kHz	200 kHz
9 m	3 m	0.9 m
(30′)	(10′)	(3′)
30 m	10 m	3.3 m
(100')	(34′)	(11′)
122 m	41 m	13 m
(400')	(134′)	(42′)
305 m	102 m	32 m
(1,000′)	(335′)	(105′)
(100')	(34')	(11')
122 m	41 m	13 m
(400')	(134')	(42')
305 m	102 m	32 m

		1	164 mm (6.46")
2X Radius 0.8 mm (0.03") ——	+1	(3.54°)	



SEE CM265LH DIMENSIONS

Sensing Technology





©Airmar® Technology Corporation

Commercial_Marine_PC_rL 1/05/15

As Airmar constantly improves its products, all specifications are subject to change without notice. All Airmar products are designed to provide high levels of accuracy and reliability, however they should only be used as aids to navigation and not as a replacement for traditional navigation aids and techniques. Xducer ID® is a registered trademark of Airmar Technology Corporation. Other company or product names mentioned in this document may be trademarks or registered trademarks of their respective companies, which are not affiliated with Airmar.