

Teledyne Benthos manufactures a wide range of Acoustic Releases for shallow, mid and deep water operations. Acoustic releases have been used for decades as a safe and reliable means of deploying and recovering critical subsea instrumentation. A secure acoustic command is sent from the topside unit to the subsea unit to release up to 25 tons of in-line instrumentation to the surface for recovery.

All of Teledyne Benthos acoustic releases can be operated from our feature-rich UTS-9400 universal topside unit, which provides access to a wide spectrum of system capabilities and diagnostics to ensure ease

of operation and successful instrumentation recovery. As an alternative, the R500 Series Acoustic Release can also operate with our value-priced Release*it* deck box, providing users with an ideal solution for shallow water applications.

With over 50 years of experience in undersea applications, Teledyne Benthos Acoustic Releases have become synonymous with quality and dependability, even in the harshest of environments.



# SPECIFICATIONS

**Model R500 Shallow-Water Acoustic Transponding Release** is our newest release rated to 500 meters depth and release loads of up to 455 kg (1,000 lbs). The R500 is compatible with our full-feature UTS-9400 or our value-priced Release*it* Deck Unit.



**Model R2K Mid-Water Acoustic Transponding Release** is a full function acoustic release in a rugged and compact stainless steel housing for use in depths to 2,000 meters and loads up to 2,000 kg (4,400 lbs).



**The R12K Deep Water Acoustic Transponding Release** is designed for full ocean depth mooring recovery applications requiring a highly-reliable rugged stainless steel package and 4,540 kg (10,000 lbs) load handling.



**Model HD Load Multiplier for Deep Releases** is a secondary arm to provide a 5:1 mechanical advantage when used on any Deep Release. This 22,600 kg (24.9 tons) rated device is used for deployment of anchors and underwater construction applications.



<b>Rated Depth</b>	500 m (1,640 ft)	2,000 m (6,562 ft.)	12,000 m (39,370 ft.)	12,000 m (39,370 ft.)
<b>Release Load Rating</b>	180 kg (396 lb) release	2,000 kg (4,400 lbs)	4,540 kg (10,000 lbs)	22,600 kg (24.9 tons)
<b>Lift Load Rating</b>	455 kg (1,000 lb) <sup>1</sup>	2,000 kg (4,400 lbs) <sup>1</sup>	4,540 kg (10,000 lbs) <sup>1</sup>	22,600 kg (24.9 tons) <sup>1</sup>
<b>Release Actuation</b>	High torque motor	High torque motor	High torque motor	—
<b>Slant Range</b>	Up to 2 km (1.2 miles)	Up to 12 km (7.5 miles)	Up to 12 km (7.5 miles)	—
<b>Range Accuracy</b>	0.3 m (1 ft)	0.3 m (1 ft)	0.3 m (1 ft)	—
<b>Tilt Range</b>	0-180° at 1° increments	0-180° at 1° increments	0-180° at 1° increments	—
<b>Operating Life</b>	Up to 18 months <sup>2</sup>	Up to 4 years <sup>2</sup>	Up to 4 years <sup>2</sup>	—
<b>Frequency Band</b>	9-14 kHz (LF)	9-14 kHz (LF)	9-14 kHz (LF)	—
<b>Source Level (typical)</b>	167 dB re 1uPa @ 1m	185 dB ref 1 µPa @ 1m	185 dB ref 1 µPa @ 1m	—
<b>Weight—In air In water</b>	5.9 kg (13.1 lb) 2.1 kg (4.6 lb)	18 kg (40 lbs) 13 kg (29 lbs)	36 kg (80 lbs) 28 kg (62 lbs)	121 kg (268 lbs) 104 kg (230 lbs)
<b>Dimensions</b>	48 cm (18.9 in) length 11.4 cm (4.5 in) dia	66 cm (26 in) length 15 cm (6 in) dia.	93.7 cm (36.9) length 16.3 cm (6.4 in) dia.	119.5 cm (47.1 in) length 48.2 cm (19 in) width (Dim. are w/releases attached)
<b>Housing Construction</b>	PVC	Stainless steel (ferralium 255)	Stainless steel (17-4)	Stainless steel (17-4) high strength carbon steel
<b>Topside Compability</b>	UTS-9400 / Release <i>it</i> / Test <i>it</i>	UTS-9400 / Release <i>it</i> <sup>3</sup> / Test <i>it</i>	UTS-9400 / Release <i>it</i> <sup>3</sup> / Test <i>it</i>	—
<b>Accessories</b>	R500 Alkaline Battery (C-270-535) Drop Link - (0220-008) Anode Kit - (A-270-378)	R2K Alkaline Battery (C-270-388) Drop Link - (B-270-804) Bar Anode (A-855-139)	R12K Alkaline Battery (C-270-388) Drop Link - (B-855-186) Anode Kit - (A-855-82-1)	008847 Drop Link —

1 Refer to manual for static and dynamic loading.

2 Refer to manual for more detailed battery life conditions.

3 Depth limited due to 3 km slant range.