

Agencies around the world  
rely on our Direction Finding  
Systems.

Shouldn't yours?

Frequency Range 

Receivers 

Monitoring Mode 

COSPAS SARSAT 

On land, when the emergency services are called, the dispatcher is able to determine a location in just a few seconds thanks to internal GPS within phones. But what happens when you're called to an emergency at sea, in the middle of the desert or in the height of the mountains where a GPS location cannot easily be determined or may not exist at all?

This is where Chelton DF family comes to the rescue...



#### Extended Range

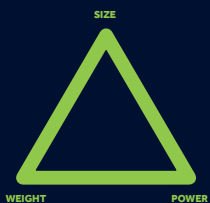
Proven in customer trials to have 3X the range detection compared to competitor systems.

# 9

Frequency  
Bands

#### Broader Frequency Coverage

Covers up to 9 SAR frequency bands depending on the applications of your aircraft and is configurable for both SAR and C-SAR.



#### Optimal SWaP

Meticulously designed to maximise range while not compromising on size, weight and power characteristics.



#### Trusted by many

From the lightest utility helicopters to the largest military transport jets, Chelton's DF is used across the world by a diverse set of agencies.



#### Multiple Beacon Finding Capability

With a unique ability to both continuously and simultaneously monitor separate frequencies using 6 receivers, beacons can be found quicker.



#### Platform Tailored

We decode your requirements and our in-house support team can advise you on the best DF configuration to maintain optimal RF performance.



# Agencies around the world rely on our Direction Finding Systems. Shouldn't yours?

**Chelton's Direction Finding family provides the perfect peace of mind with a combination of superior proven performance, establishment and heritage and flexibility.**

When you call the emergency services on land, the despatcher is able to determine your location in just a few seconds thanks to your phone's internal GPS and the location information available on the cellular network. However, what happens when there is an emergency at sea, in the middle of the desert or in the height of the mountains where a GPS position cannot be determined?

For many years, GPS has been labelled as the answer to many Search and Rescue (SAR) needs however, it's no longer enough to simply rely on GPS for these missions. There are multiple beacons still in service across the world working on a variety of legacy frequencies. If SAR equipment doesn't cater for all instances or frequencies, then some emergencies could take longer to get to or even missed altogether - giving no peace of mind for the rescuer.

Instead, Direction Finding (DF) which operates on and is certified for use on both legacy and modern beacons, is the only system which can provide true peace of mind for search and rescue crews. Future-proofed so that newer beacons are detectable; not forgetting the legacy ones still in use.

Chelton has heritage in DF; delivering equipment for over 60 years to guide both civil and combat Search and Rescue crews. With Chelton DF on

your team, searches are more efficient, more accurate and faster; all critical when you are up against the clock in harsh environments.

Here's why agencies around the world rely on and select their essential equipment from Chelton's DF family.

## Extended range minus the SWaP sacrifice

Chelton's antenna experts focus designs on optimal RF performance without sacrificing on size, weight and power; that's why our DF family offers the best performance to drag ratio with the lowest amount of airframe protrusion combined with largest frequency range. The design of Chelton's 935 Direction Finding Antenna has been proven in a customer trial to have had 3x the range detection when compared to competitor systems.

Conformal options are available in the market but the reality is that this is only ever a reasonable solution for platforms at the beginning of the design and not for existing helis in operation.

## Broader Frequency Coverage

Chelton's DF family can cover up to 9 different frequencies with the ability to monitor 6 simultaneously giving you confidence in your aircraft's ability to locate beacons. This includes Tactical VHF, Marine Distress and COSPAS-SARSAT depending on the application and requirements of your platform.

## Flexibility

The Chelton DF family offers flexibility in both operation and installation. The DF family is configurable for both SAR and C-SAR and because of the broader frequency coverage making it easy to use for however your agency needs to; whether that's marine bands for coastguard rescue or tactical VHF for mountainous terrain.

So why should your Search and Rescue team switch to Chelton's DF systems? Thanks to its large install base, Chelton know exactly how best to install a DF system based on your platform and your requirements. Our rich antenna expertise and advanced modelling techniques ensures we can offer different plinth options to ensure protrusion is as low as possible while still functional at lower altitudes.

Agencies around the world rely on Chelton's DF for lifesaving missions; from the lightest utility helicopters to the largest military transport jets, Chelton's DF family is certified for both civil and combat SAR use by a large number of commercial and military platforms across a diverse set of agencies including coastguard, emergency services and military agencies. Why not add yourself to that distinguished list? Find out more at [chelton.com/DF](http://chelton.com/DF).

	935 Tactical DF	938 Civil DF
Frequency Range	30MHz - 470MHz	88MHz - 470MHz
# Receivers	6, all internal <ul style="list-style-type: none"> <li>✓ Space saving</li> <li>✓ Simultaneous monitoring of 5 distress frequencies</li> <li>✓ Two separate receivers specific to Maritime applications are embedded</li> </ul>	6, all internal <ul style="list-style-type: none"> <li>✓ Space saving</li> <li>✓ Simultaneous monitoring of 5 distress frequencies</li> <li>✓ Two separate receivers specific to Maritime applications are embedded</li> </ul>
COSPAS/SARSAT	All variants <ul style="list-style-type: none"> <li>✓ Full COSPAS/SARSAT data decoding over 406.025MHz to 406.076MHz without the need for operator re-tuning</li> </ul>	All variants <ul style="list-style-type: none"> <li>✓ Full COSPAS/SARSAT data decoding over 406.025MHz to 406.076MHz without the need for operator re-tuning</li> </ul>
Operation	Fully solid state	Fully solid state
Interface Outputs	ARINC 407 and ARINC 429 <ul style="list-style-type: none"> <li>✓ RS 422 Control</li> <li>✓ Cubic interrogator compatible for CSAR capability</li> </ul>	ARINC 429 <ul style="list-style-type: none"> <li>✓ RS 422 Control</li> </ul>