



## DAB-VD

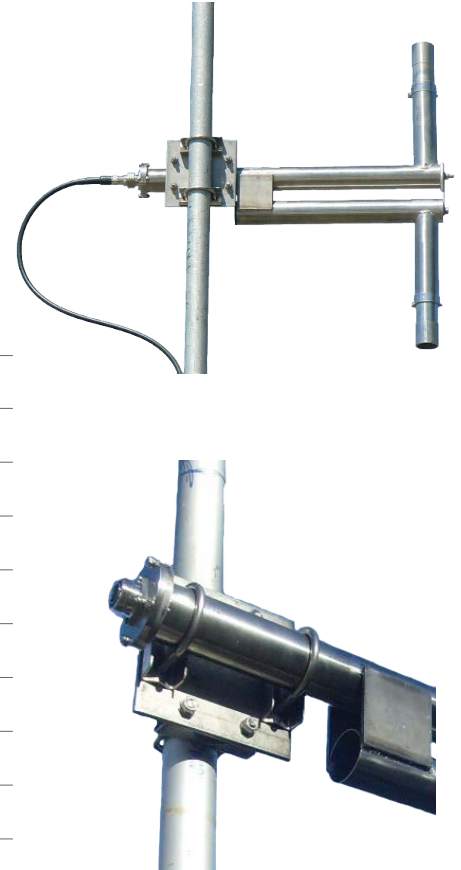
### Semi-omnidirectional high power dipole VHF Digital TV band III/ DAB Radio 174-230MHz



The DAB-VD is a high power dipole for digital audio broadcast, specifically developed so it can be used in a pressurised system.

A medium power version with a 7/16" DIN female connector is also available upon request, please consult ZCG.

Coaxial feeder cable, connectors and other installation accessories are all available separately.

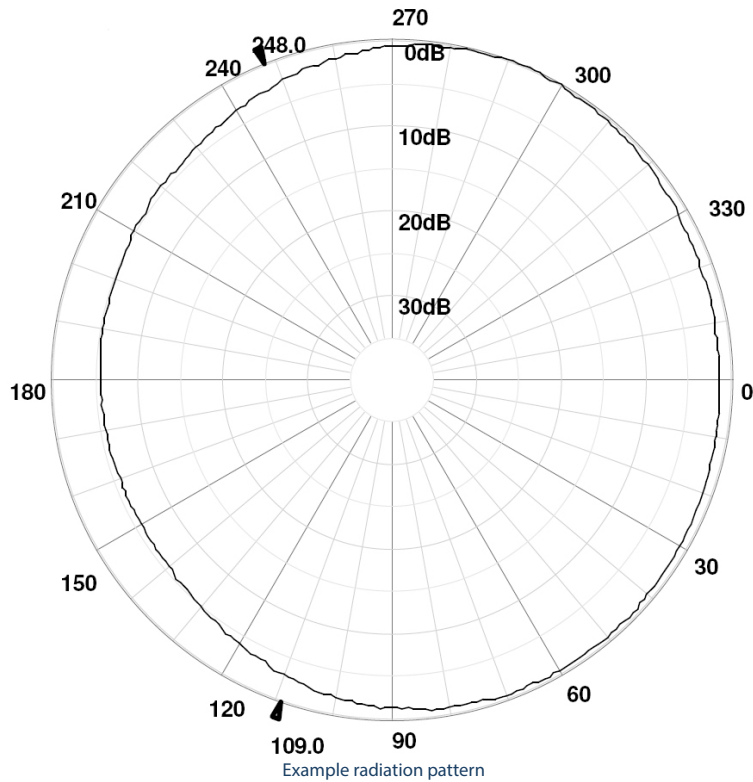


	DAB-VD-716	DAB-VD-78
Construction	Fully-welded 304 grade stainless steel	
Frequency range	VHF Digital TV band III / DAB Radio 174-230MHz	
Maximum bandwidth	Specify any 45MHz when ordering	
Tuning	Factory	
VSWR	<1.2:1 across specified bandwidth	
Gain	0dBd single bay , stacking increases gain	
Maximum power	2 Kilowatts per bay	5 Kilowatts per bay
Impedance	50 Ohms	
DC grounding	Yes	
Polarisation	Vertical	
H Plane	Semi-omnidirectional, -4dB at rear	
Connector	7/16" DIN female	7/8" EIA flanged
Max height at 174MHz	0.5 metres	
Weight	8kg	
Projected area	0.074m	
Wind load at 160kph	Front - 2.25kg, 0.022kNn, Side - 8.915kg, 0.087kN	
Mounting hardware	Stainless steel V-blocks, plate and U-bolts - supplied	
Installation tools required	13mm and 19mm spanners for U-bolt securing	
Warranty	2 Years	
Additional systems accessories - order separate	<ul style="list-style-type: none"> <li>- Double bridge combiners</li> <li>- Star point combiners</li> <li>- Multi-cavity filters</li> </ul>	



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Typical Return Loss



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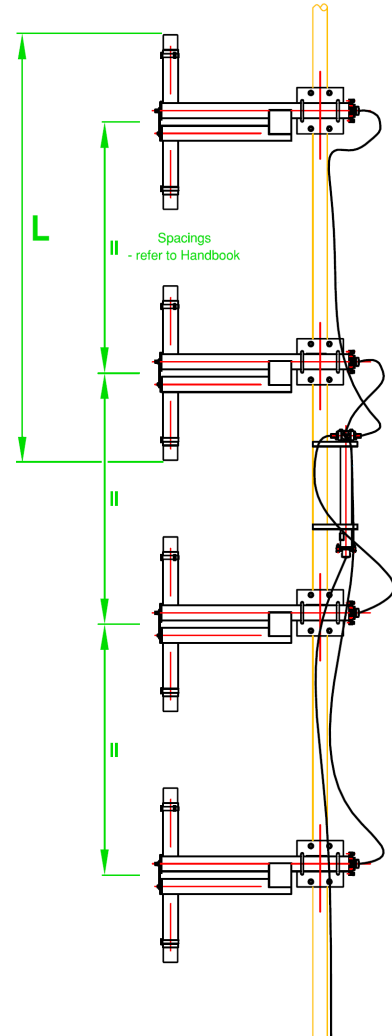
#### Mechanical Data

Height of array	Subject to configuration
Total net weight	Refer to table
Wind Load	Refer to table
Mounting hardware	One clamp per dipole - supplied, not fitted


#### Technical Data

Configuration	Off-set	Gain - dBd	Weight - kg	Antenna height L - m	Wind load - kN
1 dipole	0.9 λ	0	8	0.5	0.087
2 dipoles		3.0	16	1.98	0.174
4 dipoles		7.5	32	4.95	0.348
6 dipoles		9.8	48	7.92	0.522
8 dipoles		11.0	64	10.9	0.696


- Gain: referred to half wave dipole, losses of power through cable or power dividers not included
- Weight: does not include mounting hardware, power dividers/phasing harness, brach feeder coaxial cables or mount poles
- Wind load: V = 160km/h
- Antenna height is indicative dimensions, please utilise dimensions calculated in broadcast handbook supplied with antenna



#### Array requirements



Multi-termination power divider/splitter  
Specify centre frequency when ordering.  
Multi-input/output connector configuration available.  
Includes mounting hardware



Custom cable branch feeders  
Length and termination determined by model and power divider spec.  
See following page for cable type recommended

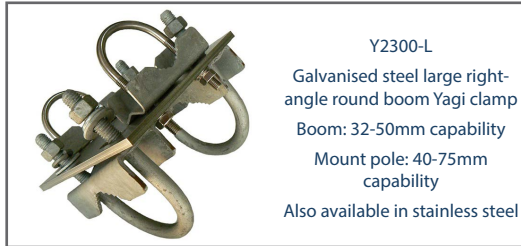


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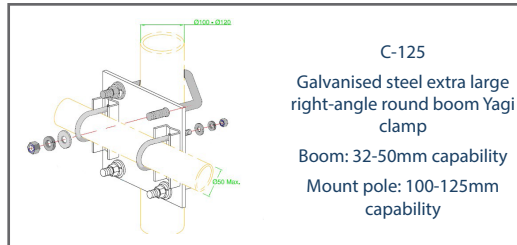
Alternate mounting hardware - order separate



**Y2300-L**  
Galvanised steel large right-angle round boom Yagi clamp  
Boom: 32-50mm capability  
Mount pole: 40-75mm capability  
Also available in stainless steel



**Y2300-XL**  
Galvanised steel extra large right-angle round boom Yagi clamp  
Boom: 32-50mm capability  
Mount pole: 50-90mm capability  
Also available in stainless steel



**C-125**  
Galvanised steel extra large right-angle round boom Yagi clamp  
Boom: 32-50mm capability  
Mount pole: 100-125mm capability

Suitable feeder coaxial cable and connectors



1/2" corrugated shielded, foam dielectric coaxial cable  
**P/N ZCG1250**  
Available in per metre, or 500m rolls or alternatively request a custom cable assembly



Low PIM 7/16" DIN male clamp-style connector for 1/2" corrugated foam dielectric coaxial cable  
**P/N 716DINM1250**  
Tri-metal plated



7/8" EIA flanged clamp-style connector for 1/2" corrugated foam dielectric coaxial cable  
**P/N 78EIA1250**



7/8" corrugated shielding, foam dielectric coaxial cable  
**P/N ZCG7850**  
Available in per metre, or 500m rolls or alternatively request a custom cable assembly



Low PIM 7/16" DIN male clamp-style connector for 7/8" corrugated foam dielectric coaxial cable  
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