

UHF binary dipole array

UHF 400-520MHz

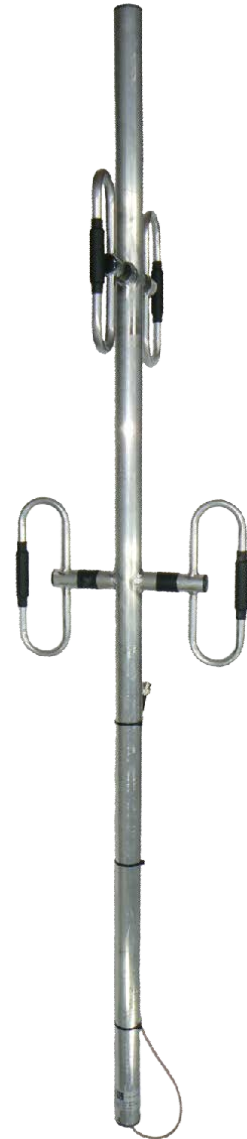
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The binary dipole array offers both an omnidirectional radiation pattern and genuine broadband coverage across the entire UHF frequency range.

The array is therefore ideally suited for multiple frequency transmissions at highly populated radio sites.

Mounting hardware, coaxial feeder cable, connectors and other installation accessories are all available separately.

Specifications	DUA-4052-AL	DUA-4052-SS
Construction	Fully-welded corrosion resistant aluminium	Fully-welded 304 grade stainless steel
Sets of dipoles	2	
Frequency range	UHF 400-520MHz	
Bandwidth	Full band	Full band
VSWR	<1.5:1 across full band	
Tuning	Factory	Factory
Gain	3 dBd	3 dBd
Maximum power	500 Watts	500 Watts
Polarisation	Vertical	Vertical
H Plane	360° omni-directional, ± 0.5 dBd	
E Plane	32°	32°
Impedance	50 Ohms	50 Ohms
DC grounding	Yes	Yes
Cable tail	1.0 metre RG142 - bottom exit from mount section	
Connector	N-type female fitted to cable tail	
Projected area	0.093m ²	0.093m ²
Wind load at 160kph	11.267kg, 0.110kN	
Height	2.0 metres	
Mount section area	48.4mm x 300mm	50.8mm x 300mm
Weight	5.1kg	10.0kg
Mounting hardware (order separate)	2 x UAM180L - parallel or 2 x UAM90L - right-angle or consult ZCG for advice	



UAM180L



UAM90L

[Lower and Higher gain models on following pages.](#)

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Specifications	DUA-4052-2
Construction	Fully-welded corrosion resistant aluminium boom and dipoles
Sets of dipoles	1
Frequency range	UHF 400-520MHz
Bandwidth	Full band
VSWR	<1.5:1 across full band
Tuning	Factory
Gain	2 dBd
Maximum power	500 Watts
Polarisation	Vertical
H Plane	360° omni-directional, ± 0.5 dBd
Impedance	50 Ohms
DC grounding	Yes
Cable tail	1.0 metre RG142 - bottom exit from mount section
Connector	N-type female fitted to cable tail
Height	2.0 metres
Mount section area	48.4mm x 300mm
Weight	4.5kg
Projected area	0.076m ²
Wind load at 160kph	9.18kg, 0.090kN
Mounting hardware (order separate)	2 x UAM180L - parallel or UAM90L - right-angle or consult ZCG for advice



UAM180L



UAM90L

[High gain models on following page.](#)

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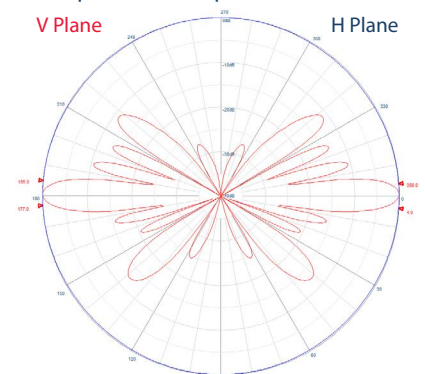
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Specifications	DUA-4052AL-6	DUA-4052SS-6
Construction	Fully-welded corrosion resistant aluminium	Fully-welded 304 grade stainless steel
Sets of dipoles	4	
Frequency range	UHF 400-520MHz	
Bandwidth	Full band	Full band
VSWR	<1.5:1 across full band	
Tuning	Factory	Factory
Gain	6 dBd	6 dBd
Maximum power	500 Watts	500 Watts
Polarisation	Vertical	Vertical
H Plane	360° omni-directional, ± 0.5 dBd	
Impedance	50 Ohms	50 Ohms
DC grounding	Yes	Yes
Cable tail	1.0 metre RG142 - bottom exit from mount section	
Connector	N-type female fitted to cable tail	
Projected area	0.147m ²	0.147m ²
Wind load at 160kph	17.866kg, 0.175kN	
Height	3.2 metres	
Mount section area	48.4mm x 300mm	50.8mm x 300mm
Weight	10.2kg	18.0kg
Mounting hardware (order separate)	2 x UAM180L - parallel or 2 x UAM90L - right-angle or consult ZCG for advice	



Sample Radiation pattern at 460MHz
V Plane H Plane



[High gain models on following page.](#)

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Specifications	DUA-4052AL-9	DUA-4052SS-9
Construction	Fully-welded corrosion resistant split (2-piece) aluminium	Fully-welded 304 grade split (2-piece) stainless steel
Sets of dipoles	8	
Frequency range	UHF 400-520MHz	
Bandwidth	Full band	Full band
VSWR	<1.5:1 across full band	
Tuning	Factory	Factory
Gain	9 dBd	9 dBd
Maximum power	500 Watts	500 Watts
Polarisation	Vertical	Vertical
H Plane	360° omni-directional, ± 0.5 dBd	
Impedance	50 Ohms	50 Ohms
DC grounding	Yes	Yes
Cable tail	1.0 metre RG142 - bottom exit from mount section	
Connector	N-type female fitted to cable tail	
Projected area	0.321m ²	0.321m ²
Wind load at 160kph	38.874kg, 0.381kN	
Height	7.2 metres	
Mount section	Diameter: 48.4mm	Diameter: 50.8mm
Weight	20.4kg	25.0kg
Mounting hardware (order separate)	2 x UAM180L - parallel or 2 x UAM90L - right-angle or consult ZCG for advice	



UAM180L



UAM90L

[High gain models on following page.](#)