

Modular Mounts

Modular stud mount base system

The modular whip range are interchangeable and any whip will fit on any of the modular bases. This allows a high level of flexibility and a comprehensive catalogue of options for every system.

Permanent



M8/M8A

Temporary



MMR



MBM

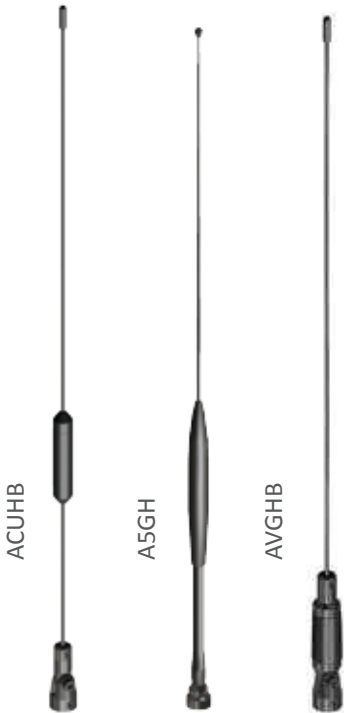
Permanent: Panel mount, with a simple drill hole installation. These installations are secure and watertight.

Temporary: Damage free and fast installations for drive testing or rental vehicles. Temporary bases provide a secure solution for situations where drilling holes is not possible.

1/4 Wave



High Gain



Multi-band





M8 & M8A

Panel mount
Rugged design
Modular stud fitting
Interchangeable whips

The M8 is the “industry standard” panel mount base. It incorporates stainless steel earthing teeth and a fully moulded construction with high quality coaxial cable for low loss and long term reliability.

The base is easy to fit and can be installed from above or below the panel. With the modular stud fitting, almost any antenna in the Panorama range can be fitted to the base.

Part No.		M8	M8A
Mechanical Data			
Dimensions (mm)	Base Height	15 (0.6")	15 (0.6")
	Base Diameter	28 (1.1")	28 (1.1")
Operating Temp (°C)		-40°/+80°C (-40°/+175°F)	-40°/+80°C (-40°/+175°F)
Material		Nylon, stainless steel & nickel plated brass	Nylon, stainless steel & nickel plated brass
Colour		Black	Black
Cable Data			
Type		CS23 (RG58 C/U)	CS23 (RG58 C/U)
Diameter (mm)		5 (0.2")	5 (0.2")
Length (m)		4.8 (16')	4.8 (16')
Termination		Bare end	Bare end

MMR & MBM

Modular stud fitting
Interchangeable whips
Boot or magnetic panel mounting
For installation without damage to vehicle

The MMR is large secure magnetic base for professional use, offering a fully moulded construction with high quality coaxial cable for low loss and long term reliability.

The MBM is a boot clip base designed for fixing around a vehicle's panels.



MBM boot mount

MMR magnetic mount

Part No.		MMR-5	MBM
Mechanical Data			
Dimensions (mm)	Base Height	40.2 (1.6")	23 (0.9")
	Base Width/Diameter	102 (4.0")	38 (1.5")
	Base Length	-	42.5 (1.7")
Operating Temp (°C)		-40°/+80°C (-40°/+175°F)	-40°/+80°C (-40°/+175°F)
Material		Nylon & nickel plated brass	Nylon & nickel plated brass
Colour		Black	Black
Cable Data			
Type		CS23 (RG58 C/U)	CS23 (RG58 C/U)
Diameter (mm)		5 (0.2")	5 (0.2")
Length (m)		5 (16')	5 (16')
Termination		Bare End	Bare End



AQB & AQHB

1/4 wave whip
Removable for car wash
Hinged & non-hinged versions

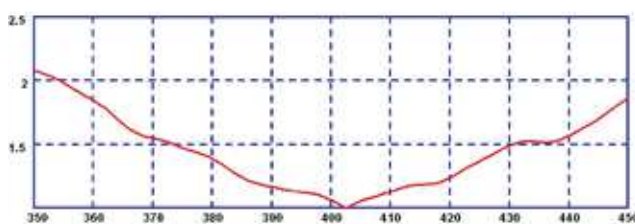
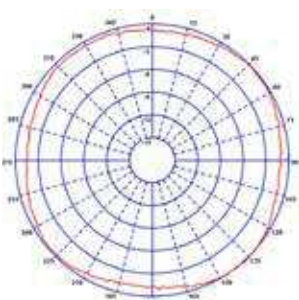
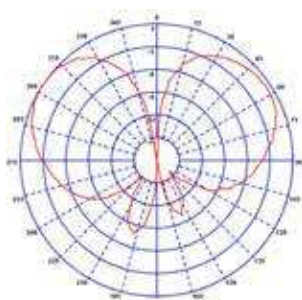
The AQB & AQHB are Panorama's standard single frequency 1/4 wave rigid whips. These antennas feature a 17-7 PH stainless steel rod with a plated brass terminal protected by black nylon moulding.

The Panorama mounting system provides a high degree of interchangeability between whips and bases, making them suitable for all applications whether temporary or permanent. For use with M8, MMR or MBM bases.

Typical E-Plane (390MHz)

Typical H-Plane (390MHz)

Typical VSWR*



*measured on a 1m x 1m groundplane with 5m cable

Standard Data

Part No.	
Non-hinged version	AQB
Hinged version	AQHB
Electrical Data	
Peak Gain: Isotropic	2dBi
Compared to 1/4 wave	0dB
Polarisation	Vertical
Pattern	Omni-directional
Impedance	50Ω
Max Input Power (W)	100
Mechanical Data	
Operating Temp (°C)	-40°/+80°C (-40°/+175°F)
Material	Stainless steel & nylon
Colour	Black

Product Variants

Part No.	Frequency	Application
AQB-H4A	138-155	VHF
AQB-H5	149-159	VHF
AQB-H6A	155-174	VHF
AQB-TET	380-430	UHF TETRA
AQB-U1	410-470	UHF
AQB-S4	450-470	UHF TETRA
AQB-U2	450-512	UHF
AQHB-H4A	138-155	VHF
AQHB-H6A	155-174	VHF
AQHB-TET	380-430	UHF TETRA
AQHB-U1	410-470	UHF
AQHB-S4	450-470	UHF TETRA
AQHB-U2	450-512	UHF

AFQB & AFQHB

Flexible 1/4 wave whip
Removable for car wash
Hinged & non-hinged versions

The 1/4 wave AFQB and AFQHB antennas feature a flexible construction within a black nylon tube for increased durability and longevity.

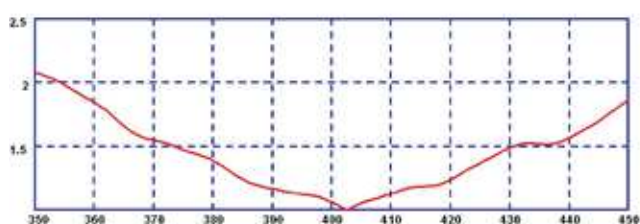
The Panorama mounting system provides a high degree of interchangeability between whips and bases, making them suitable for all applications whether temporary or permanent. For use with M8, MBM, and MMR bases.



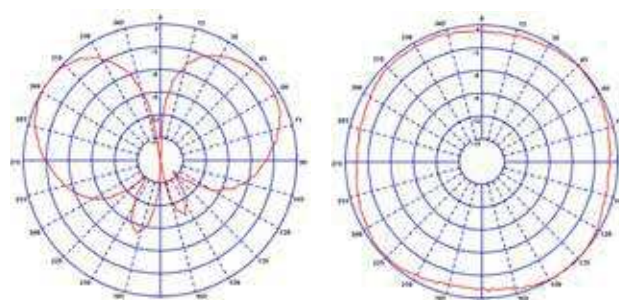
Typical VSWR*

Typical E-Plane (390MHz)

Typical H-Plane (390MHz)



*measured on a 1m x 1m groundplane

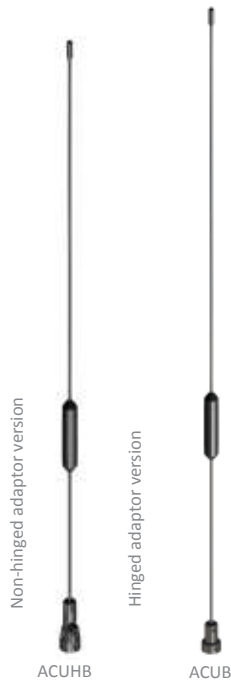


Standard Data

Part No.	
Non-hinged version	AFQB
Hinged version	AFQHB
Electrical Data	
Peak Gain: Isotropic	2dBi
Compared to 1/4 wave	0dB
Polarisation	Vertical
Pattern	Omni-directional
Impedance	50Ω
Max Input Power (W)	60
Mechanical Data	
Operating Temp (°C)	-40°/+80°C (-40°/+175°F)
Material	Copper plated steel & nylon
Colour	Black

Product Variants

Part No.	Frequency	Application
AFQB-H4A	138-155	VHF
AFQB-H5	149-159	VHF
AFQB-H6A	155-174	VHF
AFQB-TET	380-430	UHF TETRA
AFQB-U1	410-470	UHF
AFQB-S4	450-470	UHF TETRA
AFQB-U2	450-512	UHF
AFQHB-H4A	138-155	VHF
AFQHB-H6A	155-174	VHF
AFQHB-TET	380-430	UHF TETRA
AFQHB-U1	410-470	UHF
AFQHB-S4	450-470	UHF TETRA
AFQHB-U2	450-512	UHF



ACUB, ACUHB

High gain

Hinged or non-hinged versions

Perfect solution for marginal or boundary coverage areas

The ACUB & ACUHB range are colinear in construction and offer more gain at the cost of additional length and narrower aperture.

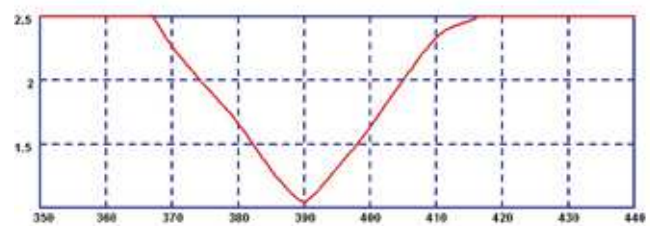
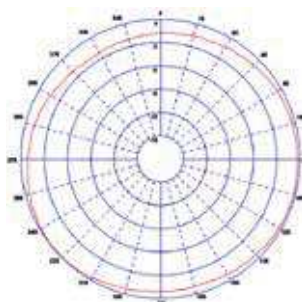
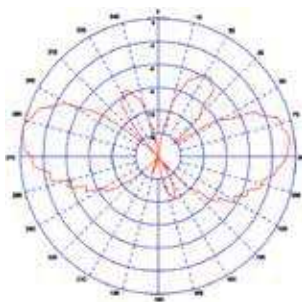
High gain antennas are the perfect solution for limited signal in boundary coverage areas.

For use with M8, MBM & MMR bases.

Typical E-Plane (390MHz)

Typical H-Plane (390MHz)

Typical VSWR*



*measured on a 1m x 1m (3 x 3') groundplane with 5m (16') CS23 cable

Standard Data

Part No.	
Non-hinged version	ACUB
Hinged version	ACUHB
Electrical Data	
Peak Gain: Isotropic	7dBi
Compared to 1/4 wave	5dB
Polarisation	Vertical
Pattern	Omni-directional
Impedance	50Ω
Max Input Power (W)	50
Mechanical Data	
Operating Temp (°C)	-40°/+80°C (-40°/ +175°F)
Material	Stainless steel & Nylon
Colour	Black

Product Variants

Part No.	Frequency	Peak Gain	Application	Height (mm)
ACUB-S1	380-400	7dBi	UHF TETRA	806 (31.8")
ACUB-S2	410-430	7dBi	UHF TETRA	748 (29.4")
ACUB-460	450-470	7dBi	UHF TETRA	572 (22.6")
ACUHB-S2	410-430	7dBi	UHF TETRA	746 (29.4")
ACUHB-460	450-470	7dBi	UHF TETRA	626 (24.6")

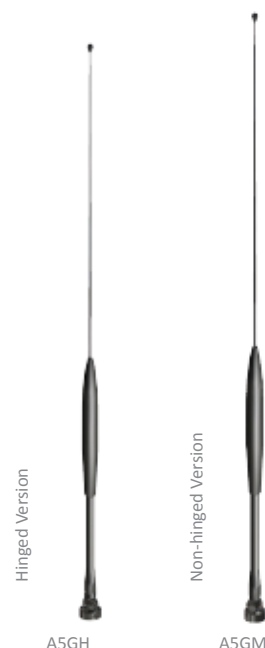
A5GM & A5GH

Fully moulded construction for reliability
Tapered whip for low wind resistance
Consistent gain across the UHF/TETRA bands
For use where network coverage is marginal

The A5G 5dBi gain whip range is designed to offer wideband UHF e-plane coverage with consistent gain & a wide aperture.

The increased gain can extend the range of a vehicle within the mobile network. High gain antennas are the perfect solution for limited signal in boundary coverage areas.

For use with M8, MMR & MBM bases.



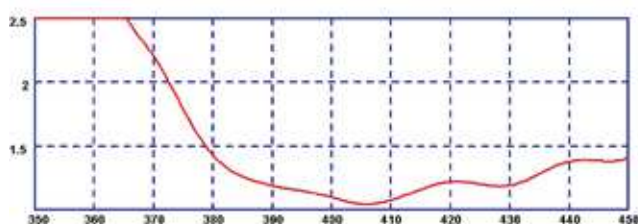
A5GH

A5GM

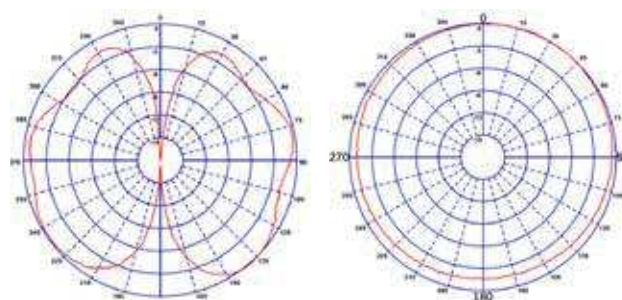
Typical VSWR*

Typical E-Plane (405MHz)

Typical H-Plane (405MHz)



*measured on a 1m x 1m (3 x 3') groundplane with 5m (16') RG58 c/u cable



Standard Data

Part No.	
Non-hinged version	A5GM
Hinged version	A5GH
Electrical Data	
Peak Gain: Isotropic	5dBi
Compared to ¼ wave	3dB
Polarisation	Vertical
Pattern	Omni-directional
Impedance	50Ω
Max Input Power (W)	50
Mechanical Data	
Operating Temp (°C)	-40°/+80°C (-40°/+175°F)
Material	Stainless steel & Nylon
Colour	Black

Product Variants

Part No.	Frequency	Application	Height (mm)
A5GM-TET	380-430	UHF TETRA	527 (20.7")
A5GM-S4	450-470	UHF TETRA	480 (18.9")
A5GH-TET	380-430	UHF TETRA	570 (22.4")
A5GH-S4	450-470	UHF TETRA	525 (20.6")



AQHB (dual bands)

Combines 2m or 4m band & TETRA

Can be used with panel mount or GPS base

Minimises antenna installations on vehicle

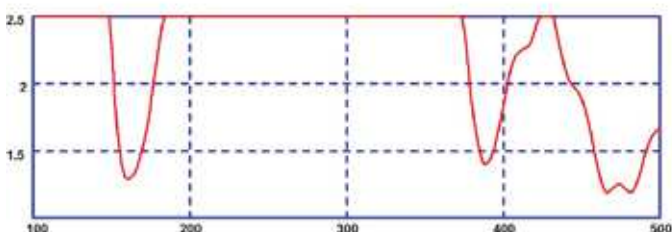
This range of dual band antennas offer TETRA band (380-400MHz) combined with either 2m (165-174MHz) or 4m (74-88MHz) VHF coverage.

The antenna is resonant on each band and does not require a matching unit.

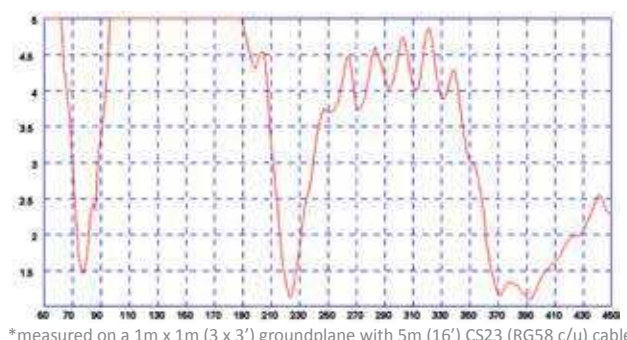
Used with Panorama's high efficiency diplexer unit, this enables a dual band radio or two separate radios to effectively operate on one antenna.

For use with M8, MMR, and MBM bases.

Typical VSWR (AQHB-H6-7-S1-462)



Typical VSWR (AQHB-E4-S1)*



*measured on a 1m x 1m (3 x 3') groundplane with 5m (16') CS23 (RG58 c/u) cable

Standard Data

Part No.	AQHB-H6-7-S1-462	AQHB-E4-S1
Electrical Data		
Frequency Range	165-174 & 380-400	74-88 & 380-400
Application	2m & TETRA (S1)	4m & TETRA (S1)
Peak Gain: Isotropic	2dBi (both band)	
Compared to ¼ wave	0dB (both bands)	
Polarisation	Vertical	
Pattern	Omni-directional	
Impedance	50Ω	
Max Input Power	25	
Mechanical Data		
Height (mm)	425 (16.7")	1003 (39.5")
Operating Temp (°C)	-40°/+80°C (-40°/+175°F)	
Material	Stainless Steel	
Colour	Black	

AUGHB & AVGHB

Gain whips

Rugged construction

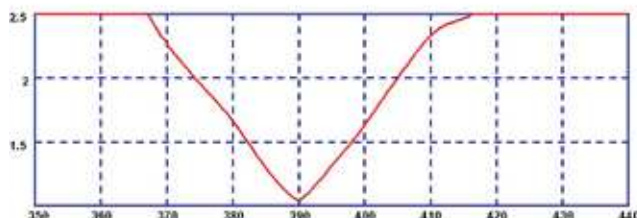
Hinged base and removable whip

The AUGHB range is a durable solution for vehicle installations requiring a medium gain UHF antenna. The AVGHB is the counter part of the AUGHB for VHF frequency. The antennas feature a fully encapsulated impedance matching coil and a 17-7PH stainless steel whip.

The AUGHB & AVGHB ranges are compatible with the full range of Panorama Antennas modular bases and incorporates a hinge to enable vertical orientation.

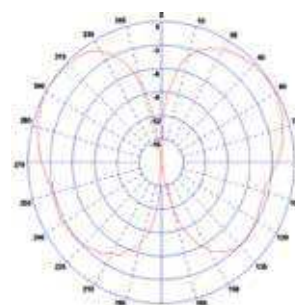


Typical VSWR*

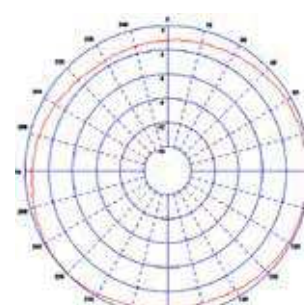


*measured on a 1m x 1m (3 x 3') groundplane with 5m (16') CS23 (RG58 c/u) cable

Typical E-Plane (390MHz)



Typical H-Plane (390MHz)



Standard Data

Electrical Data	
Peak Gain: Isotropic	3.5dBi
Compared to ¼ wave	1.5dB
VSWR	<2:1
Polarisation	Vertical
Pattern	Omni-directional
Impedance	50Ω
Max Input Power (W)	50
Mechanical Data	
Operating Temp (°C)	-40°/+80°C (-40°/176°F)
Material (coil)	Polyamide
Material (whip)	17-7 Stainless steel
Colour	Black

Product Variants

Part No.	Frequency	Application	Height (mm)
AUGHB-S1	380-400	TETRA	503 (19.8")
AUGHB-S2	410-430	TETRA	456 (17.9")
AUGHB-U	430-472	UHF	416 (16.3")
AVGHB-H4	141-151	VHF	1417 (55.7")
AVGHB-H6	156-162	VHF	1294 (50.9")