MOBILE & MARINE RADIO ANTENNA

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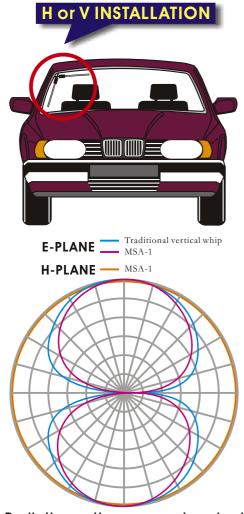
MSA-1

PAT. US 454862 TW 49034

SPECIFICATIONS	MSA-1
Radio Band	AM band & 76-90 or 88-108 MHz
Gain	Unity
Element Length	610mm (24 in)
Output Plug	Standard car radio type
Cable	Low loss 5Y-3P 1.9M (6.3ft)
Weight	0.1KGS
Dimensions	61 cm x 1 cm
Option	special plug available

INVISIBLE & REVOLUTIONARY! DIGITAL MICRO SCREEN AM-FM ANTENNA

- The MSA-1 is a new proprietary design that enhances performance with its unique MICRO SCREEN element AM-FM radio reception is not affected when vehicles or marines travelling in relationship to the radio broad--casting station.
- Easy to install it on the inside of a car or boat with 3M VHB adhesive tape. No mounting holes required. No car or boat wash vandalism problem. 100 % weather proof. Operates on **DIGITAL** and traditional AM-FM radio reception.
- The enhanced performance is close to traditional outside vertical antennas and is extremely omni-directional.
- The MSA-1 can be mounted on non-metallic surfaces and glass, even out of sight on the car or boat body of fiberglass. It fits any land or marine vehicles.



Radiation pattern comparing chart



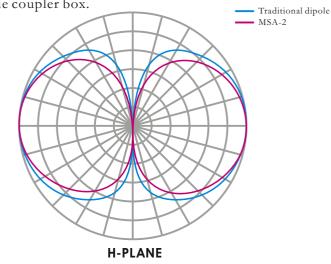


PAT. US 454862 TW 49034

INVISIBLE & REVOLUTIONARY! DIGITAL MICRO SCREEN TV ANTENNA

- The MSA-2 is a new proprietary design that enhances performance with its unique MICRO SCREEN element TV reception is not affected when vehicles or marines are travelling in relationship to the TV broadcasting station. Compatible for NTSC, PAL and SECAM world wide TV system.
- Easy to install on the inside of a car or boat with 3M VHB adhesive tape. No mounting holes required. No car or boat vandalism problem. 100 % weather proof. Operates on **DIGITAL** and traditional TV reception.
- The enhanced performance is close to traditional antennas and is extremely omni-directional.
- The MSA-2 can be mounted on non-metallic surfaces and glass, even out of sight on the car or boat body of fiberglass. It fits any land or marine vehicles.
- The angle off the antenna elements can be adjusted from the coupler box.

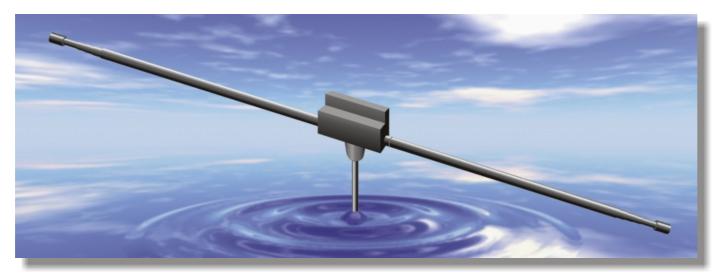
SPECIFICATIONS	MSA-2
TV CHANNEL	VHF-UHF full channels
Gain	>2.5 dBi
Element Length	610mm (24 in) x 2
Output Plug	75 ohms 'F' male type
Cable	2.5C-2V 75 ohms 15FT
Weight	0.1KGS
Dimensions	123 cm x 1 cm
Option	special plug available



Radiation pattern comparing chart

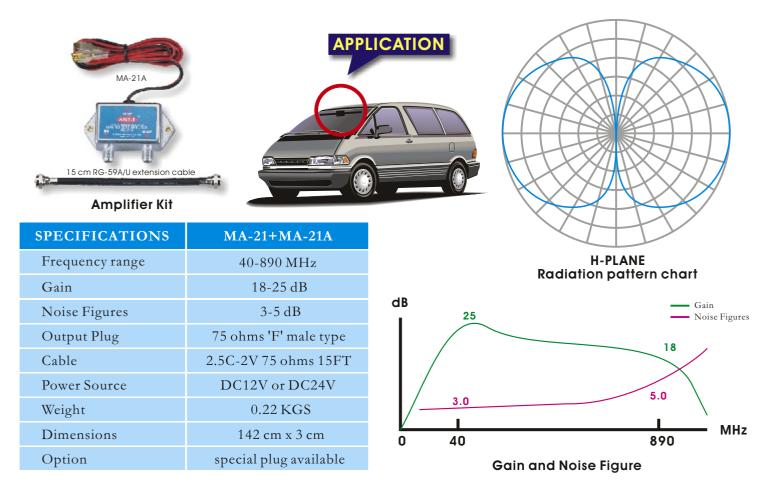
TV BAND

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RETRACTABLE DIPOLE TV ANTENNA

- The MA-21 is a dipole design that enhances performance with its retractable telescope elements and MA-21A low loss amplifier. Compatible for NTSC, PAL and SECAM world wide TV system.
- Easy to install it inside of the car or boat. No mounting holes required. No car or boat vandalism problem. and 100 % weather proof. Operates on **DIGITAL** and traditional TV reception.
- The MA-21 can be mounted on non-metallic surfaces and glass, even out of sight on the car or boat body of fiberglass. 3M VHB adhesive tape allows for the antenna to be mounted virtually anywhere on land or marine vehicles.

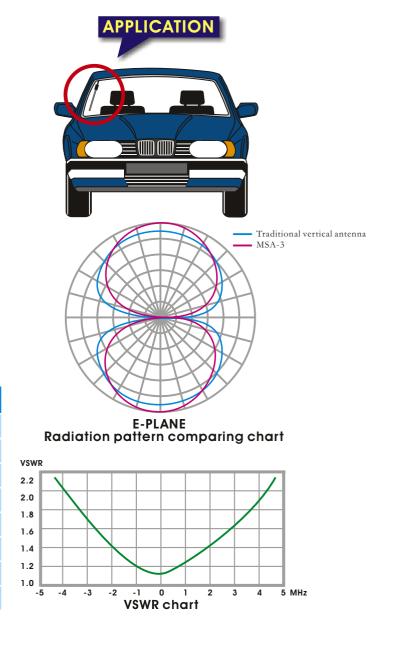


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INVISIBLE & REVOLUTIONARY! DIGITAL MICRO SCREEN VHF-UHF ANTENNA

- The MSA-3 is a new proprietary design that enhances performance with its unique MICRO SCREEN element. Easy to install it on the inside of a car or boat with 3M VHB adhesive tape. No mounting holes required. No car or boat vandalism problem. 100 %weather proof. Operates on VHF or UHF bands. Standard 50 ohms output impedance.
- The enhanced performance is close to traditional outside vertical antennas and is extremely omni-directional.
- The MSA-3 can be mounted on non-metallic surfaces and glass, even out of sight on the car or boat body of fiber-glass. It fits any land or marine vehicles.









SPECIFICATIONS	MSA-3
Frequency Range	150-174 or 405-475 MHz
Gain	3/5 dBi
Max. Power Load	60W max.
VSWR	Less than 1.5:1
Output Connector	UHF male (PL-259)
Cable Length	15 ft RG-58 A/U
Weight	0.15 KGS
Dimensions	50 cm x 1 cm

HIGH PERFORMANCE VHF-UHF ANTENNA

- There are some wireless communication needs for a narrow band antenna. The AW-6 is designed for this application . It operates on VHF or UHF single band. The working frequency rang was selected by cutting the whip. The whip cutting table is included. Output connector built in standard UHF male(PL-259).
- The SQ-7 is constructed of a metal housing with heavy duty UHF male output connector. This antenna provides high stability and reliability for RF radio communication on vehicles. The white antenna body come with a high gloss 'powder coating', 100 % weather and water proof. The working frequency covers on VHF or UHF single band. The operation frequency range can be selected by cutting whip. The whip cutting table is included with antenna package.
- Sometimes a broadband antenna is required for multi-band wireless communications. The AT-2 provides a wide frequency range on VHF and UHF dual band. It operates on VHF from 139MHz to 150MHz and UHF from 360MHz to 460MHz. The good vehicle grounding can get low VSWR. The model AT-2UHF has a built in UHF male connector, AT-2NMO has a built in NMO connector.
- The AT-3/AT-3C operates on VHF/UHF dual band. The quarter wave whip is constructed with a shock-proof spring on the antenna body, easy for installation and maintenance. The vehicle ground plane is required. The AT-3C has a built in phase coil on the whip.





AT-3C

AT-3

SPECIFICATIONS	AW-6	SQ-7	AT-2UHF AT-2NMO	AT-3	AT-3C
Frequency Range	138-174 MHz		139-150 MHz 360-460 MHz	143-148/430-460MHz	
Gain	3.2 dBi Unity/3.5 dBi			Unity	
Max. Power Load	100W max.			150W	⁷ max.
VSWR	Less than 1.5:1			Less th	an 1.8:1
Output Connector	UHF male(PL-259), NMO male available on AT-2NMO				
Wave Length	5/8 1/4+1/			1/	4
Weight	150 g	210 g	185 g	90 g	95 g
Dimensions	133 cm	95-135 cm	58 cm	52 cm	48 cm

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AND NTENNA

AT-2UHF

AT-2NMO

HIGH PERFORMANCE CB, 6M & VHF-UHF ANTENNA

- The X series antenna are designed for CB and 6 meter wave wireless communications. The X-60CM works on 50 MHz band. The X-27CB operates on 27 MHz CB band. The high reliability construction of antenna body provides more stable TX/RX signal when vehicles are travelling in relationship to the mobile or base station. Output connector is built in a standard UHF male (PL-259) type.
- The X-270H/C operates on amateur radio 2M and 70CM band. The X-270H is constructed with a close phase coil whip, it's whistle free during the vehicles in travelling. The whip of X-270C has a built in open phase coil. A standard UHF male connector is on the output port.
- Sometimes a removable antenna is required for amateur radio communication. The MG-270 was designed for removable application on the vehicles. The antenna body is constructed of a high flux Nd-Fe-B alloy magnet with black ABS housing. 9ft of RG-174AU coaxial cable come with a standard BNC male connector.
- The AT-5R and WH-14M operates on VHF/UHF band of amateur and commercial radio. The high flux magnet is constructed of a MG-270 black ABS housing with a stainless steel whip for WH-14M. 15ft RG-58AU gas-injection low loss coaxial cable and PL-259 connector is included.

The AT-5R is designed for top roof installation on vehicles. Standard 3/4" NMO connector ii built in. The whip is constructed of stainless steel wire with black chrome plating. 15ft RG-58AU gas-injection low loss coaxial cable and PL-259 connector is also included.



WH-14M

AT-5R

X-270C





SPECIFICATIONS MG-270 143-148 MHz 47-55 MHz 26-28 MHz Frequency Range 130-174/405-512MHz 430-460 MHz 3/5 dBi Unity Gain Unity Unity Unity/3.5 dBi Max. Power Load 100W max. 150W max. VSWR Less than 1.5:1 UHF male(PL-259) plus 15ft RG-58AU low loss cable UHF male(PL-259) UHF male(PL-259) Output Connector BNC 1/4+1/2 Wave Length 1/41/81/41/4Weight 170 g 170 g 185/50 g 230 g 400 g Dimensions 135 cm 135 cm 98/50 cm46 cm 47 cm

X-27CB

70H/C

AT-5R

X-60CM

ANLI

X-60CM X-27CB

ELEVATED FEED CB, 6M & VHF-UHF ANTENNA

- The EX series antennas were designed for CB, 6 meter wave and VHF-UHF wireless communication. The EX-6H works on the 50 MHz band. The EX-6CB operates on the 27 MHz CB band. The elevated feed construction of the antenna body provides more stable TX/RX signal when vehicles are travelling in relationship to the mobile or base station. The output connector is built in a standard NMO male type.
- The EX-2HV/270H are EX series design. They operate on **amateur radio** 2M and 70CM band. The EX-2HV has an open phase coil whip with a shock proof spring to insure against breakage when the mast is hit. The whip of EX-270H has an open phase coil with black chrome plated. The output port comes with a standard NMO male connector.
- Sometimes a short antenna is required for commercial radio communication. The EX-2V and QW-70U has a quarter wave whip for such application. The operation frequency range can be selected by cutting whip. The whip cutting table is included with antenna package. The antenna body is constructed of a heavy duty black ABS housing with shock-proof spring.

EX-70U



The shock-proof design to insure against breakage when vehicles pass branches of forest or parking in a low level garage.

EX-270HD

EX-2HV

SPECIFICATIONS	EX-2HV	EX-270HD	EX-6H EX-6CB	EX-2V	QW-70U
Frequency Range	143-148 MHz	143-148 MHz 430-460 MHz	47-55 MHz 26-28 MHz	130-174 MHz	405-512 MHz
Gain	3 dBi	3 dBi 3/5 dBi Unity Unity			
Max. Power Load	100W max.				
VSWR	Less than 1.5:1				
Output Connector	NMO 3/4"				
Wave Length	0.5	0.5 $0.5 + 5/8x2$ $\frac{1/4}{1/8}$ $1/4$			4
Weight	245 g	245 g	265 g	250 g	230 g
Dimensions	100 cm	100 cm	137 cm	118 cm	48 cm

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/HF-UHF BAND

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EX-6H/CB EX-2V

THE OPTIMUM DESIGN **AMATEUR RADIO ANTENNA**

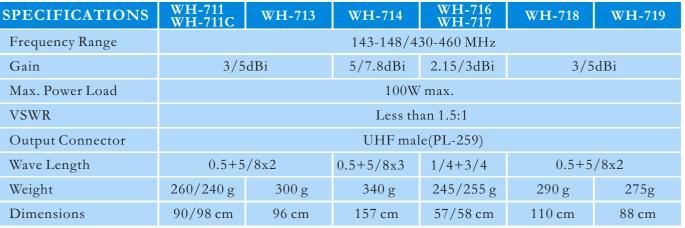
- The WH series antennas are designed for **amateur radio** communications. The antennas operates on VHF-UHF amateur radio band. High reliability construction of the antenna body provides best stability of TX/RX signal when vehicles are travelling in relationship to the mobile or base station. A standard UHF male (PL-259) type connector is built in.
- The antennas are engineered with a pull-out and fold-down design to insure against breakage. This unique function will not require you to remove the antenna when parking in a low level garage. They feature natural chrome plating and a low profile mounting base for superior reliability and performance.



Ш	Wave Length	0.5 + 5/8x2		
17 UT	Weight	260/240 g	300	
	Dimensions	90/98 cm	96 c	

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WHIP PULL-OUT & FOLD DOWN DESIGN







MSA-4 PAT. US 63197 TW 49034



PAT. TW 63197 PG-4R PG-4RE PG-4E PG-4

INVISIBLE & REVOLUTIONARY! DIGITAL MICRO SCREEN MOBILE PHONE ANTENNA

- The MSA-4 is a new proprietary design that enhances performance with its unique MICRO SCREEN element. Cellular performance and hand off is improved when land or marine vehicles are travelling in relationship to the cell-site.
- Easy to install it inside of a car or boat with 3M VHB adhesive tape. No mounting holes required. No car or boat vandalism problem. 100 % weather proof. This antenna operates on **DIGITAL** and traditional mobile phone communication bands AMPS, GSM, PCN, PCS and other mobile phone systems.
- The enhanced performance is close to traditional outside vertical antennas and is extremely omni-directional.
- The MSA-4 can be mounted on non-metallic surfaces and glass, even out of sight on the car or boat body of fiberglass. It fits any land or marine vehicles.



GLASS MOUNT ANTENNA

- The glass mount antenna features a patented design that allows the whip and coupling box to efficiently transfer mobile phone signal through the vehicle glass. Operates on AMPS, GSM, PCN, PCS and other mobile phone systems.
- The antenna whip is constructed of a 17-7PH stainless steel wire with 3M VHB adhesive tape for glass mount. 15ft RG-58AU is included.

SPECIFICATIONS	PG-4 PG-4E	PG-4R PG-4RE	PG-5 PG-5E	MSA-4 MSA-4E	
Frequency Range	800 MHz 900 MHz	800 MHz 900 MHz	800/1900 MHz 900/1800 MHz	800/1900 MHz 900/1800 MHz	
Gain	3 dBi 3/5 dBi				
Max. Power Load	25 W max.				
VSWR	Less than 1.5:1				
Output Connector	TNC or FME – TNC or FME				
Whip Style	open coil close coil	open coil close coil	open coil	MSA	
Antenna Type	with cable	passive repeater	with cable		
Weight	245 g	80 g	235 g	150 g	
Dimensions	33/37cm	33/37cm	13cm	61x1cm	