

# Aerials

The aerial patterns represent measurements made in the horizontal plan at the center of the band.

## Aerial benchmarking

### CAI

For the reception of Digital Terrestrial Television (DTT) signals in the UK, aerials are required to be designed and manufactured to a minimum industry standard.

Due to the high level of analogue signals compared to the lower digital signals, the correct aerial is not always fitted. This mainly occurs in fringe reception areas where DTT reception issues have invariably been improved with the installation of the correct aerial.

The Confederation of Aerial Industries and the Digital Television Group have therefore decided that an approval process is required to ensure that aerials conform to a minimum standard. The benchmark specification is used to determine the characteristics of an aerial required to obtain stable DTT reception. It does not alter the basic requirements of aerial design but highlights important parameters so that satisfactory DTT reception may be achieved.

Aerials that have been approved will display a “mark”, confirming that the required standard has been reached. Although this benchmark is not a legal requirement, experience in the industry has indicated that it will be to the industry’s advantage to supply equipment to this recommendation.

The standards BS 5640: 1,11 1978 and ITU-R. BT. 419-3 have been used as a guide in setting the specification.

The benchmark is to set the minimum performance required for various standards of aerial. It does not cover ease of assembly, durability and installation.



## Aerial benchmarked

<b>SIGMA 6HD</b> (page 19)	SIGMA 6HD, 6 element UHF Aerial <b>Certification Number: CAI/AB 116</b>	
<b>BLU420F</b> (page 21)	BLU Series, 42 element UHF Aerial <b>Certification Number: CAI/AB 012</b>	
<b>BLU220PLUS</b> (page 22)	BLU Series, 22 element UHF Aerial <b>Certification Number: CAI/AB 017</b>	
<b>BLU420PLUS</b> (page 22)	BLU Series, 42 element UHF Aerial <b>Certification Number: CAI/AB 038</b>	
<b>OMEGA5</b> (page 24)	Omega Series, 5 element UHF Aerial <b>Certification Number: CAI/AB 048</b>	
<b>OMEGA8</b> (page 24)	Omega Series, 8 element UHF Aerial <b>Certification Number: CAI/AB 049</b>	
<b>TAU11/45</b> (page 26)	TAU Series, 11 element UHF Aerial <b>Certification Number: CAI/AB 101</b>	
<b>LP4F</b> (page 34)	Log-periodic, UHF Aerial <b>Certification Number: CAI/AB 130</b>	
<b>LP45NF</b> (page 34)	Log-periodic, UHF Aerial <b>Certification Number: CAI/AB 102</b>	

## FM & DAB aerials

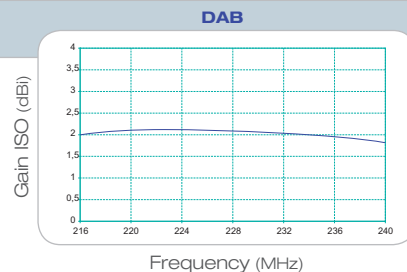
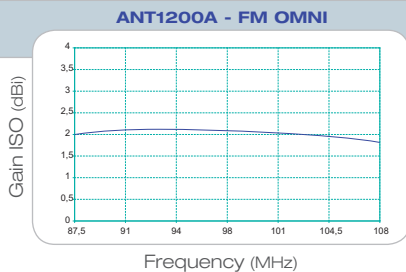
### FM & DAB Series

FM & DAB aerials in different designs for the reception of FM radio signals to be used for MATV, SMATV and IRS installations.

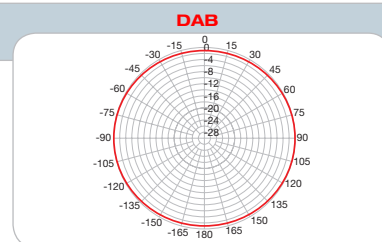
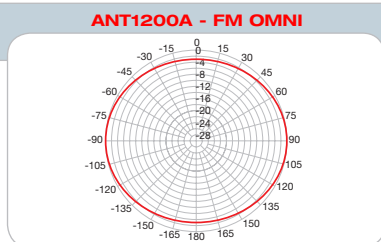


Item Code		ANT1200A 213001	FM OMNI 213009	DAB 213010
Elements	No.	1	1	1
Channels		FM	FM	DAB
Bandwidth	MHz	87.5-108	87.5-108	216-240
Maximum gain	dBi	2.1	2.1	2.1
Front-to-back ratio	dB	Omni	Omni	Omni
Return loss	dB	-16	< -6	-16
Beamwidth (-3dB)	°	360	360	360
Wind load at 120Km/h (720N/m <sup>2</sup> )	Kg (N)	3 (29.43)	2.7 (26.46)	2 (19.62)
Connector	type	F	F	F
Impedance	Ohm	75	75	75
Maximum mast Ø	mm	60	60	60
Dimensions (L x W)	cm	96x77 (H x L)	63x10.5	59x8 (H x L)
<b>Packaging</b>				
Quantity	Pcs	10	10	8
Unit weight	Kg	0.9	0.84	0.54
Total weight	Kg	10.6	8.6	4.4
<b>Accessories</b>				
Horizontal polarisation			Included	
Horizontal polarisation with tilt adj.			N/A	
Auxiliary boom			N/A	

### Gain



### Pattern



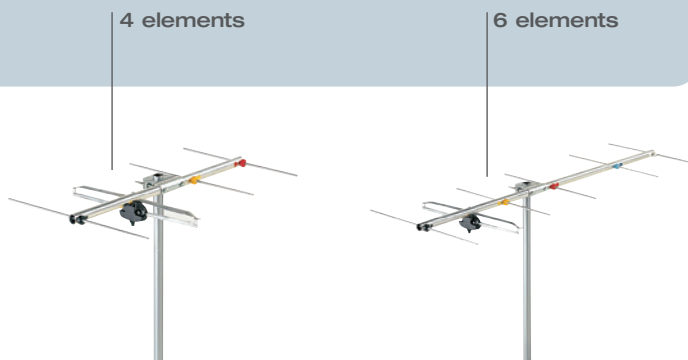
# Aerials

## VHF aerials

### Band III wideband

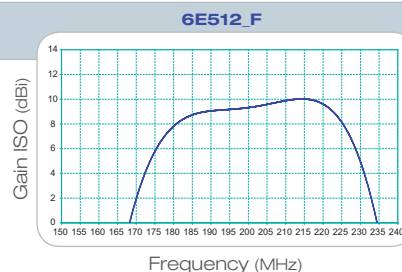
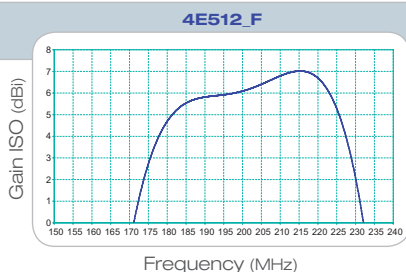
Yagi wideband III aerials with F connector. Ideal in situations where there are several band III channels.

They are available in 4 and 6 element versions to allow adequate gain in most reception situations.

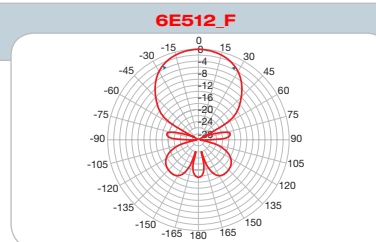
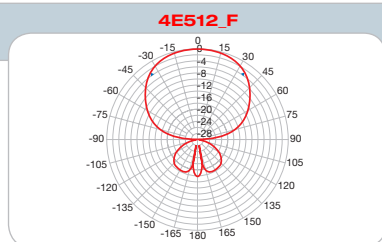


Item Code		4E512_F 218706	6E512_F 218718
Elements	No.	4	6
Band		III	III
Channels		E5-E12	E5-E12
Bandwidth	MHz	174-230	174-230
Maximum gain	dBi	7	10
Front-to-back ratio	dB	16	18
Return loss	dB	-10	-12
Beamwidth (-3dB)	°	+/- 35	+/- 28
Wind load at 120Km/h (720N/m <sup>2</sup> )	Kg (N)	2.0 (19.62)	3.0 (29.43)
Connector	type	F	F
Impedance	Ohm	75	75
Maximum mast Ø	mm	60	60
Dimensions (L x W)	cm	108 x 83	181 x 82
<b>Packaging</b>			
Quantity	Pcs	20	20
Unit weight	Kg	0.73	0.96
Total weight	Kg	15.6	20.2
<b>Accessories</b>			
Horizontal polarisation			Included
Horizontal polarisation with tilt adj.			PVZ-60
Polarisation vertical			PV10
Polarisation vertical with tilt adj.			PV10
Auxiliary boom			N/A

### Gain



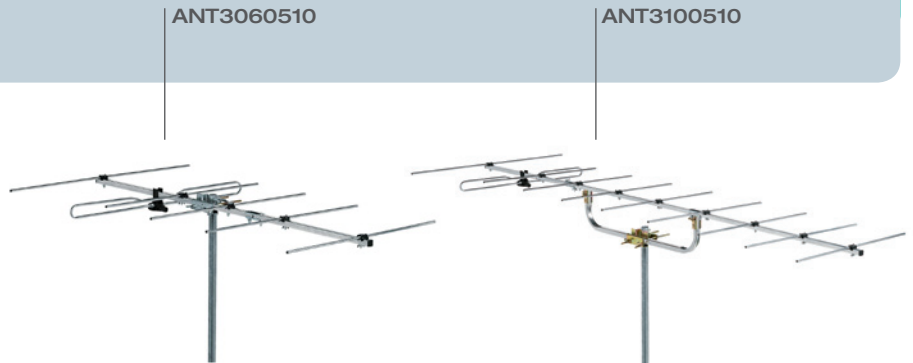
### Pattern



## VHF aerials

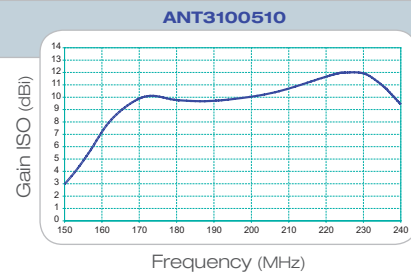
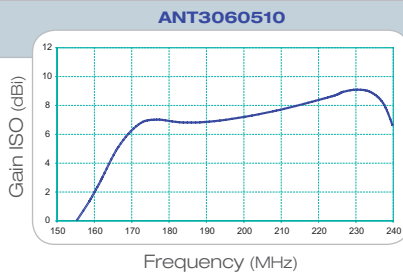
### Band III wideband

Pre-assembled Yagi 1/2 band and wideband III aerials with F connector.

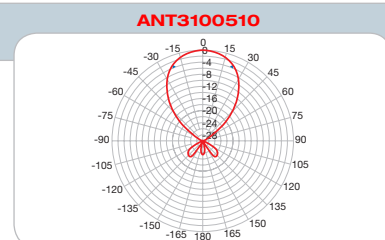
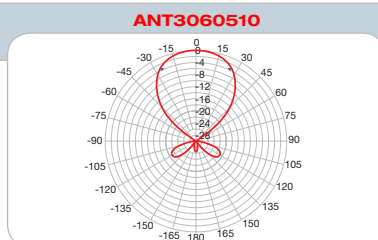


Item Code	ANT3060510		ANT3100510	
	213004		213007	
Elements	No.	6		10
Band		III		III
Channels		E5-E12		E5-E12
Bandwidth	MHz	174-230		174-230
Maximum gain	dBi	9		12
Front-to-back ratio	dB	25		28
Return loss	dB	-15		-16
Beamwidth (-3dB)	°	+/- 26		+/- 21
Wind load at 120Km/h (720N/m <sup>2</sup> )	Kg (N)	3.8 (37.24)		6.9 (67.62)
Connector	type	F		F
Impedance	Ohm	75		75
Maximum mast Ø	mm	60		60
Dimensions (L x W)	cm	119 x 86		237 x 86
<b>Packaging</b>				
Quantity	Pcs	10		10
Unit weight	Kg	1.2		1.9
Total weight	Kg	12		19
<b>Accessories</b>				
Horizontal polarisation			Included	
Horizontal polarisation with tilt adj.			MEC3603G - MEC3603Z	
Vertical polarisation			Included	
Vertical polarisation with tilt adj.			MEC3603G - MEC3603Z	
Auxiliary boom		CA2		Included

### Gain



### Pattern



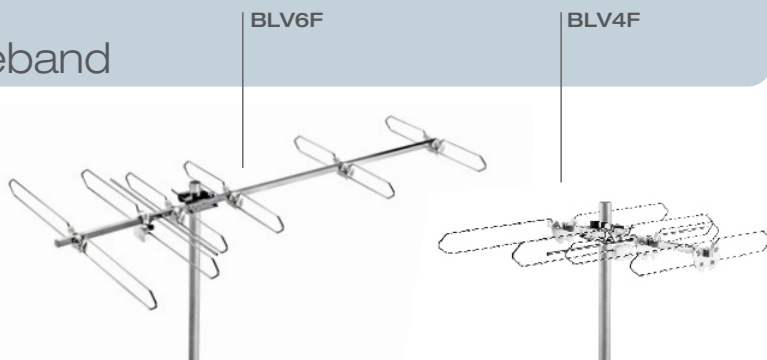
# Aerials

## VHF aerials

### High performance band III wideband

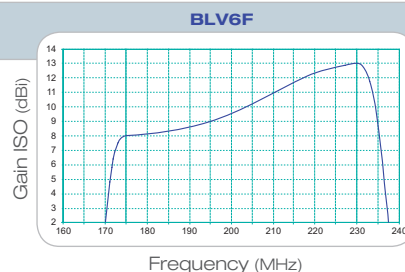
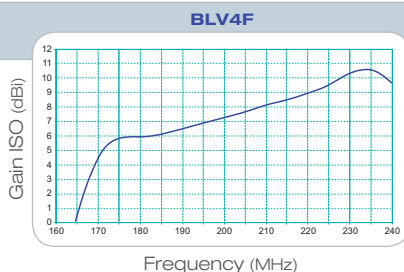
High quality pre-assembled aerials with a patent protected design and aesthetic innovations. Important characteristics include: high gain, optimised impedance matching and excellent directivity.

Superior electrical and mechanical qualities, due to magnesium - aluminium alloy construction, guaranteeing long life.

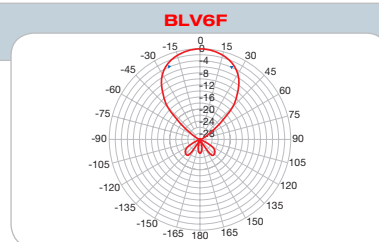
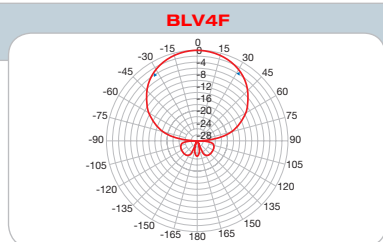


Item Code		BLV4F 218038	BLV6F 218058
Elements	No.	4	6
Band		III	III
Channels		E5-E12	E5-E12
Bandwidth	MHz	174-230	174-230
Maximum gain	dBi	10.5	13
Front-to-back ratio	dB	20	24
Return loss	dB	-23	-22
Beamwidth (-3dB)	°	+/- 31	+/- 24
Wind load at 120Km/h (720N/m <sup>2</sup> )	Kg (N)	3.0 (29.43)	4.5 (44.14)
Connector	type	F	F
Impedance	Ohm	75	75
Maximum mast Ø	mm	60	60
Dimensions (L x W)	cm	64 x 87	149 x 87
<b>Packaging</b>			
Quantity	Pcs	10	3
Unit weight	Kg	1.23	2
Total weight	Kg	14.5	6
<b>Accessories</b>			
Horizontal polarisation			Included
Horizontal polarisation with tilt adj.			Included
Polarisation vertical			PV10
Polarisation vertical with tilt adj.			PV10
Auxiliary boom			N/A

### Gain



### Pattern

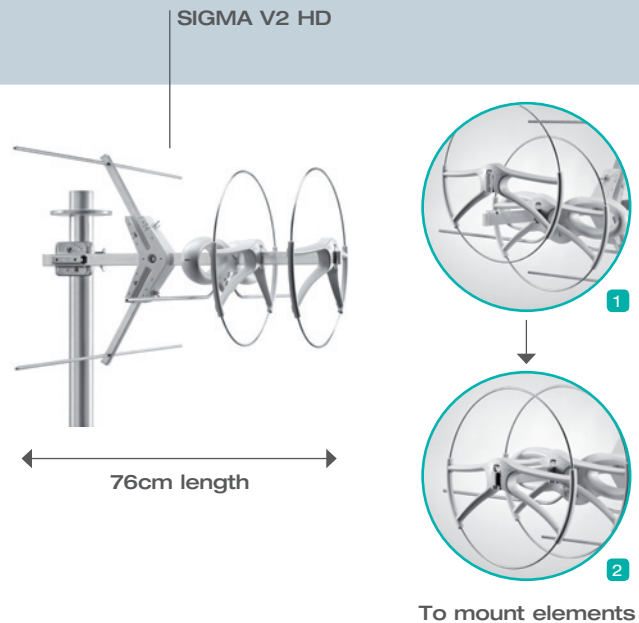


## VHF aerials

### SIGMA Series

**New**

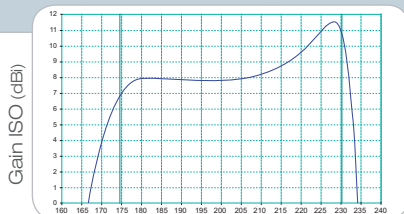
New aerial for the reception of the VHF band, with an exclusive design (patented by Fracarro). The Sigma V2 HD aerial is equipped with circular director elements and with a 2 element reflector that enables high electrical performances to be obtained, while maintaining a compact length. Sigma aerials are completely pre-assembled and therefore they can be installed quickly and easily without any other tools.



Item Code		SIGMA V2 HD
		213203
Elements	No.	2
Band		VHF
Channels		
Bandwidth	MHz	174-230
Maximum gain	dBi	11.5
Front-to-back ratio	dB	>25
Return loss	dB	-12
Beamwidth (-3dB)	°	+/-25
Wind load at 120Km/h (720N/m <sup>2</sup> )	Kg (N)	10 (98)
Connector	Type	F
Impedance	Ohm	75
Maximum mast Ø	mm	60
Dimensions (L x W)	cm	76x100.4
<b>Packaging</b>		
Quantity	Pcs	1
Unit weight	Kg	2.76
Total weight	Kg	2.76
<b>Accessories</b>		
Horizontal polarisation		Included
Horizontal polarisation with tilt adj.		Included
Polarisation vertical		Included
Polarisation vertical with tilt adj.		Included
Auxiliary boom		N/A

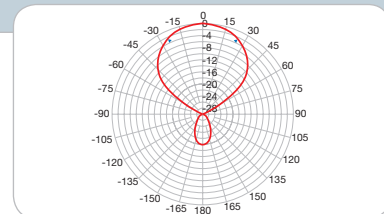
### Gain

SIGMA V2 HD



### Pattern

SIGMA V2 HD

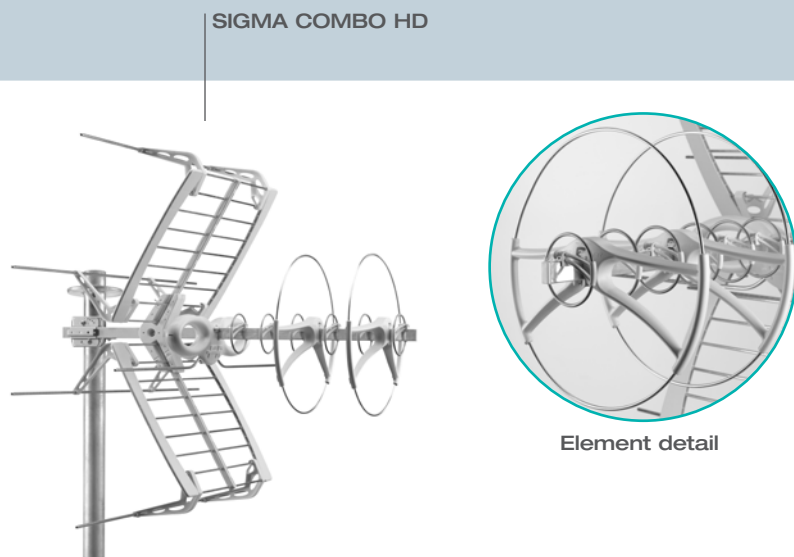


# Aerials

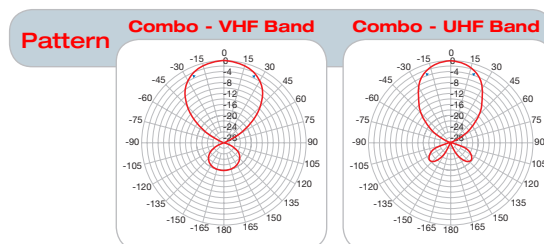
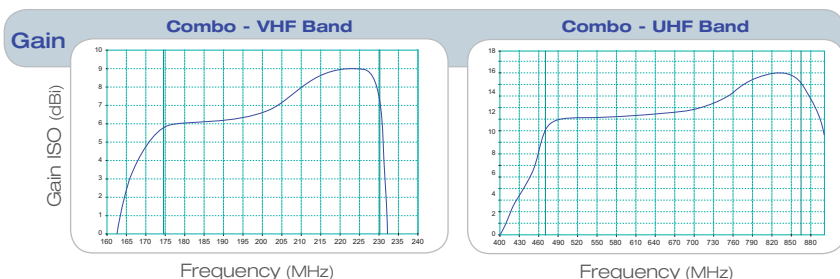
## VHF + UHF aerials

### SIGMA Series

Wideband loop Yagi aerials with F connector. The revolutionary loop Yagi technology applied to this aerial allows the reception of both VHF and UHF bands with a unique aerial, guaranteeing the same performances of two separate aerials. Sigma aerials can be installed quickly and easily without any other tools.



Item Code		SIGMA COMBO HD 213202	
		VHF	UHF
Elements	No.	2	6
Band		VHF	UHF
Channels		E5-E12	E21-E69
Bandwidth	MHz	174-230	470-862
Maximum gain	dBi	9	16
Front-to-back ratio	dB	20	32
Return loss	dB	14	18
Beamwidth (-3dB)	°	±20	±25
Wind load at 120Km/h (720N/m²)	Kg (N)	26 (256)	
Connector	type	F	
Impedance	Ohm	75	
Maximum mast Ø	mm	60	
Dimensions (L x W)	cm	108 x 100	
<b>Packaging</b>			
Quantity	Pcs	6	
Unit weight	Kg	3.83	
Total weight	Kg	27	
<b>Accessories</b>			
Horizontal polarisation		Included	
Horizontal polarisation with tilt adj.		Included	
Vertical polarisation		Included	
Vertical polarisation with tilt adj.		Included	
Auxiliary boom		N/A	

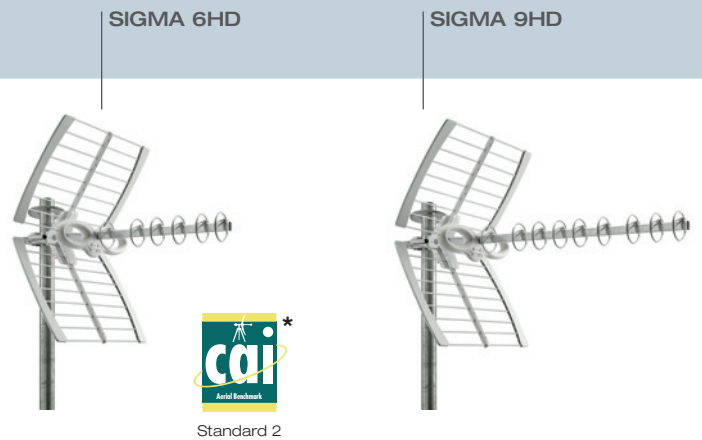


## UHF aerials

### SIGMA Series

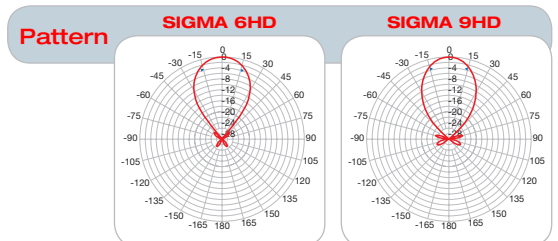
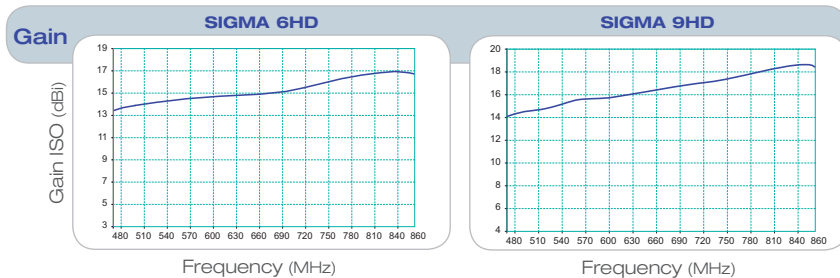
Wideband loop Yagi aerials with F connector. Their original design, patented by Fracarro, allows a particular directivity (with the maximum reduction in interference) and a maximum gain comparable with an aerial twice its length.

Sigma aerials are completely pre-assembled, therefore they can be installed quickly and easily without any other tools.



Item Code		SIGMA 6HD 213201	SIGMA 9HD 213208
Elements	No.	6	9
Band		UHF	UHF
Channels		E21-E69	E21-E69
Bandwidth	MHz	470-862	470-862
Maximum gain	dBi	17	18.5
Front-to-back ratio	dB	32	32
Return loss	dB	-18	-18
Beamwidth (-3dB)	°	± 18	± 18
Wind load at 120Km/h (720N/m²)	Kg (N)	23 (225.4)	23 (225.4)
Connector	type	F	F
Impedance	Ohm	75	75
Maximum mast Ø	mm	60	60
Dimensions (L x W)	cm	92 x 63	130 x 63
<b>Packaging</b>			
Quantity	Pcs	4	4
Unit weight	Kg	2.8	3.3
Total weight	Kg	12	16.8
<b>Accessories</b>			
Horizontal polarisation			Included
Horizontal polarisation with tilt adj.			Included
Vertical polarisation			Included
Vertical polarisation with tilt adj.			Included
Auxiliary boom			N/A

\*For more information see [www.dtg.org.uk](http://www.dtg.org.uk) web site.



Item	Code	Description	
<b>SIGMA PWR HD</b> <b>New</b>	213204	<p>Also available an active UHF dipole for SIGMA Series aerials.</p> <ul style="list-style-type: none"> <li>• The Sigma radiator contains an active dipole which substitutes an additional amplifier</li> <li>• 31dB max. equalised gain on the whole UHF band. Can be adjusted by using PSU200R power supply (see page 59)</li> <li>• Low "noise figure": &lt;2.5dB</li> <li>• Low consumption: 26mA</li> </ul>	<p><b>GREEN PRODUCT</b></p>



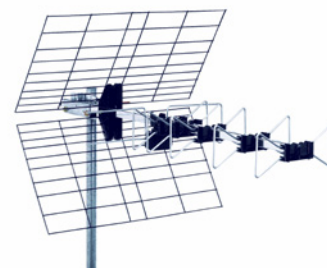
# Aerials

## UHF aerials

### BLU Series

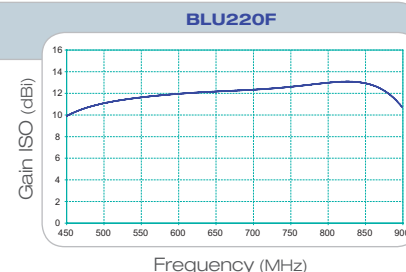
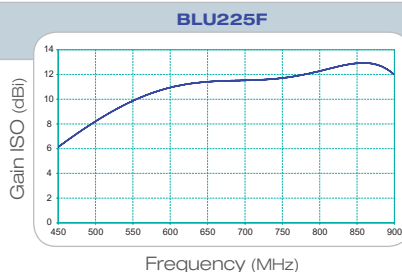
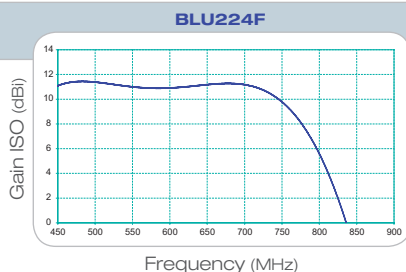
Pre-assembled aerials with F connector and excellent performance: high gain, high directivity and very good return loss. Easy to install and characterised by highly reliable RF connection. 60mm maximum mast clamp diameter and the design allows good wind loading.

BLU220F

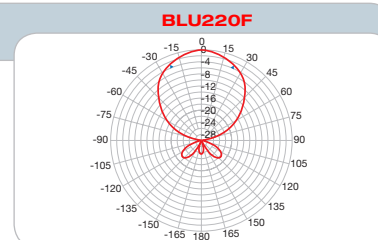
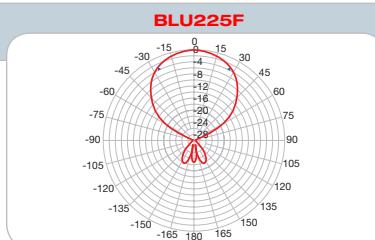
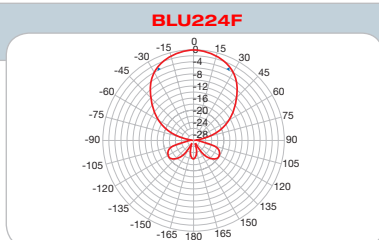


Item Code		BLU224F 217851	BLU225F 217852	BLU220F 217850
Elements	No.	22	22	22
Band		IV	V	UHF
Channels		E21-E37	E38-E69	E21-E69
Bandwidth	MHz	470-606	606-862	470-862
Maximum gain	dBi	11	13	13
Front-to-back ratio	dB	27	30	30
Return loss	dB	-20	-17	-16
Beamwidth (-3dB)	°	+/- 25	+/- 25	+/- 25
Wind load at 120Km/h (720N/m <sup>2</sup> )	Kg (N)	5.5 (53.95)	5.5 (53.95)	5.5 (53.95)
Connector	type	F	F	F
Impedance	Ohm	75	75	75
Maximum mast Ø	mm	60	60	60
Dimensions (L x W)	cm	92x50	84x50	84x50
<b>Packaging</b>				
Quantity	Pcs	10	10	10
Unit weight	Kg	1.64	1.44	1.4
Total weight	Kg	17.74	15.74	15.34
<b>Accessories</b>				
Horizontal polarisation			Included	
Horizontal polarisation with tilt adj.			Included	
Vertical polarisation			Included	
Vertical polarisation with tilt adj.			Included	
Auxiliary boom			N/A	

### Gain



### Pattern

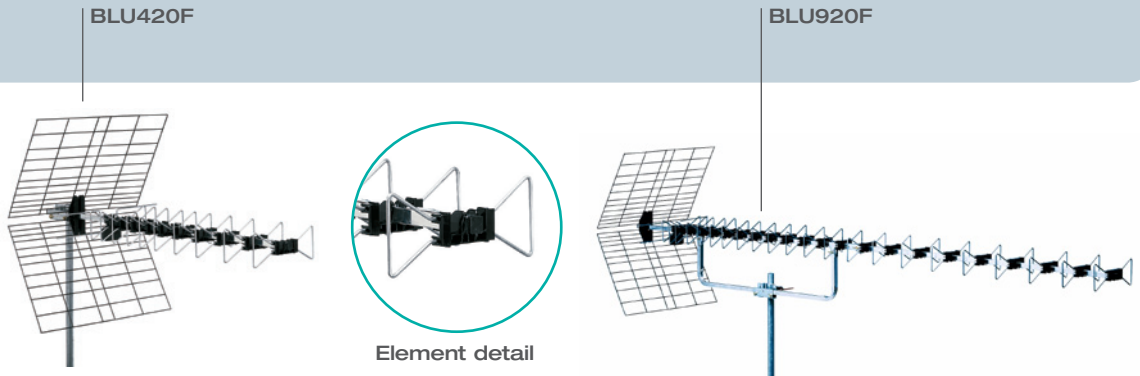


## UHF aerials

### BLU Series

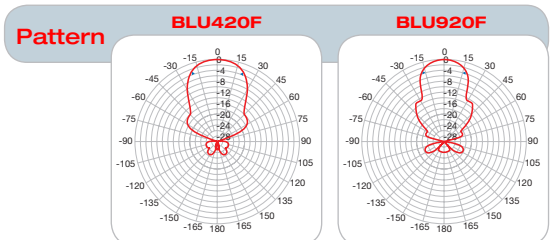
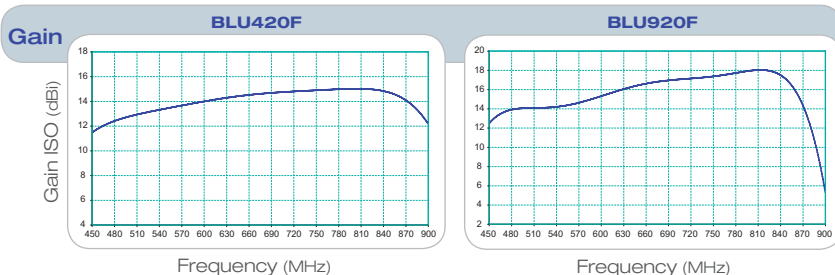
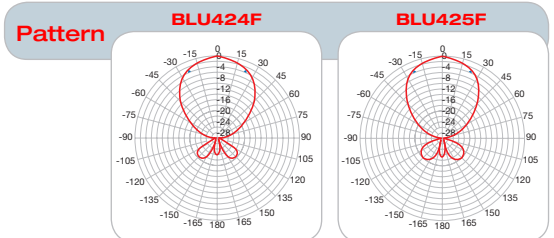
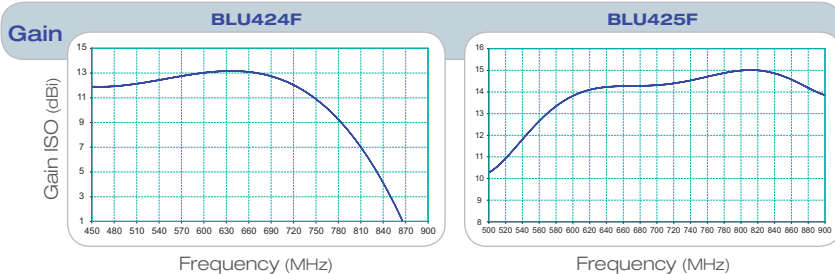


Standard 2



Item Code		BLU424F 217854	BLU425F 217855	BLU420F 217853	BLU920F 217856
Elements	No.	42	42	42	90
Band		IV	V	UHF	UHF
Channels		E21-E37	E38-E69	E21-E69	E21-E69
Bandwidth	MHz	470-606	606-862	470-862	470-862
Maximum gain	dBi	13	15	15	18
Front-to-back ratio	dB	27	26	30	30
Return loss	dB	-20	-22	-16	-18
Beamwidth (-3dB)	°	+/- 22	+/- 22	+/- 22	+/- 17
Wind load at 120Km/h (720N/m <sup>2</sup> )	Kg (N)	7.0 (68.67)	7.0 (68.67)	7.0 (68.67)	12.0 (117.72)
Connector	type	F	F	F	F
Impedance	Ohm	75	75	75	75
Maximum mast Ø	mm	60	60	60	60
Dimensions (L x W)	cm	122x50	119x50	119x50	242x50
<b>Packaging</b>					
Quantity	Pcs	10	10	10	3
Unit weight	Kg	2.14	1.9	1.89	3.16
Total weight	Kg	22.74	20.34	20.24	9.88
<b>Accessories</b>					
Horizontal polarisation				Included	
Horizontal polarisation with tilt adj.				Included	
Vertical polarisation				Included	
Vertical polarisation with tilt adj.				Included	
Auxiliary boom			CA2		Included

\*For more information see [www.dtg.org.uk](http://www.dtg.org.uk) web site.

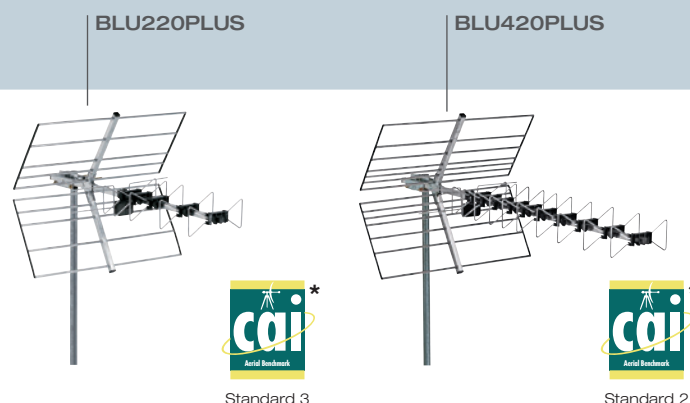


# Aerials

## UHF aerials

### BLU PLUS Series

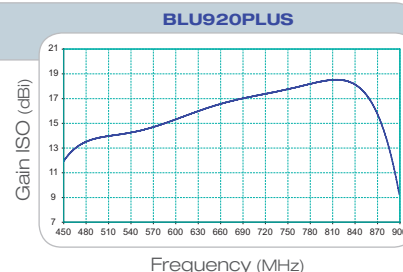
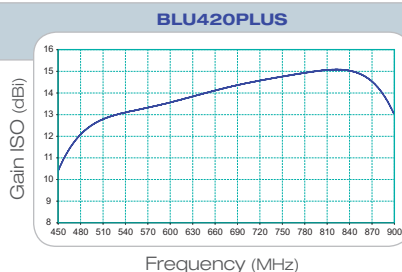
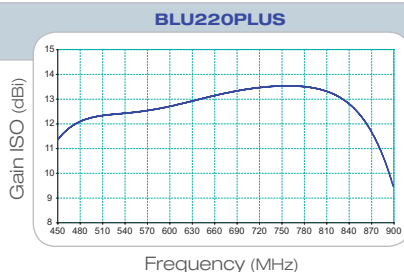
Pre-assembled aerials with F connector and excellent performance: high gain, high directivity and very good return loss. Easy to install and characterised by highly reliable RF connection. 60mm maximum mast clamp diameter and the design allows good wind loading. This range is particularly characterised by its rod reflector.



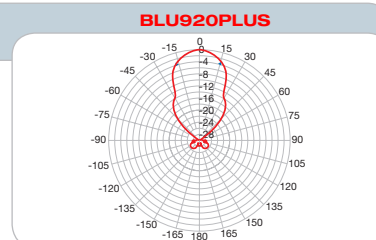
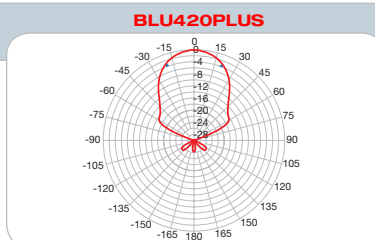
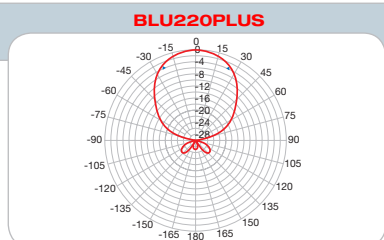
Item Code		BLU220PLUS 217857	BLU420PLUS 217858	BLU920PLUS 217859
Elements	No.	22	42	90
Band		UHF	UHF	UHF
Channels		E21-E69	E21-E69	E21-E69
Bandwidth	MHz	470-862	470-862	470-862
Maximum gain	dBi	13.5	15	18.5
Front-to-back ratio	dB	32	28	30
Return loss	dB	-18	-16	-16
Beamwidth (-3dB)	°	+/- 23	+/- 21	+/- 15
Wind load at 120Km/h (720N/m²)	Kg (N)	7.5 (73.57)	9.0 (88.29)	14.0 (137.34)
Connector	type	F	F	F
Impedance	Ohm	75	75	75
Maximum mast Ø	mm	60	60	60
Dimensions (L x W)	cm	84x50	119x50	242x50
<b>Packaging</b>				
Quantity	Pcs	10	10	2
Unit weight	Kg	1.25	1.72	3.25
Total weight	Kg	14.74	19.44	6.95
<b>Accessories</b>				
Horizontal polarisation			Included	
Horizontal polarisation with tilt adj.			Included	
Vertical polarisation			Included	
Vertical polarisation with tilt adj.			Included	
Auxiliary boom		N/A	CA2	Included

\*For more information see [www.dtg.org.uk](http://www.dtg.org.uk) web site.

### Gain



### Pattern



## UHF aerials

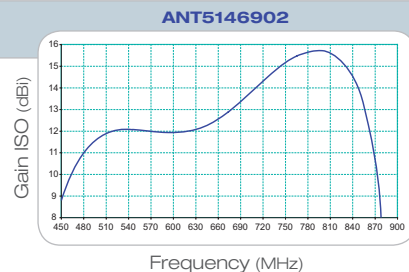
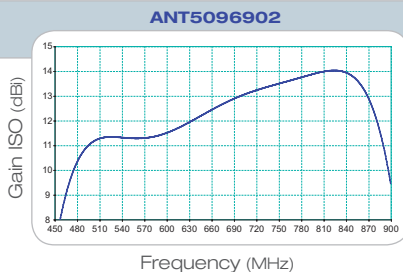
### LAMBDA Series

High performance aerials with F connector. The design of the connector cap and dipole clamp offer great protection. They are characterised by their excellent mechanical reflector sturdiness, high front-to-back ratio, good return loss and high gain. Mast clamp and joints of the boom are pre-assembled for easy installation. These aerials are also equipped with large wing nut bolt screws for excellent clamping.

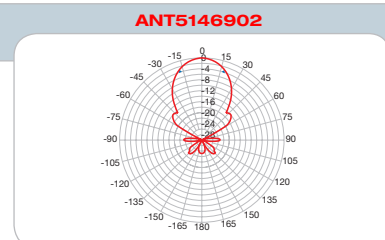
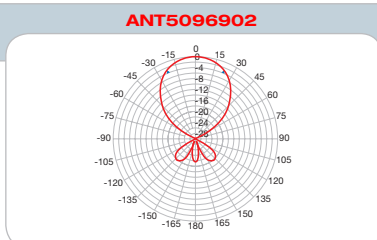


Item Code	ANT5096902		ANT5146902	
		213053		213056
Elements	No.	9		14
Band		UHF		UHF
Channels		E21-E69		E21-E69
Bandwidth	MHz	470-862		470-862
Maximum gain	dBi	14		15.6
Front-to-back ratio	dB	24		26
Return loss	dB	-12		-14
Beamwidth (-3dB)	°	+/- 23		+/- 17
Wind load at 120Km/h (720N/m <sup>2</sup> )	Kg (N)	15 (147.15)		17.5 (171.67)
Connector	type	F		F
Impedance	Ohm	75		75
Maximum mast Ø	mm	55		55
Dimensions (L x W)	cm	152x50		177x50
<b>Packaging</b>				
Quantity	Pcs	1		1
Unit weight	Kg	2.72		3.38
Total weight	Kg	2.72		3.38
<b>Accessories</b>				
Horizontal polarisation				Included
Horizontal polarisation with tilt adj.				Included
Vertical polarisation				Included
Vertical polarisation with tilt adj.				Included
Auxiliary boom		N/A		Included

### Gain



### Pattern



# Aerials

## UHF aerials

### OMEGA Series

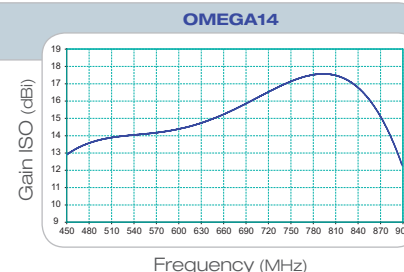
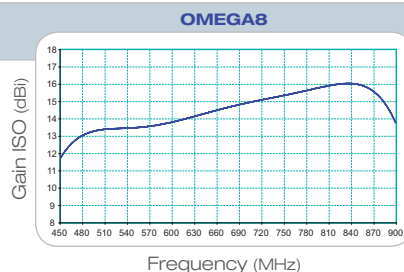
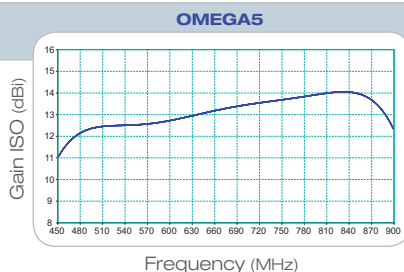
Excellent performance Yagi aerials, easy to install with high mechanical sturdiness. Important electrical performances include: high gain, high directivity and excellent front-to-back ratio.



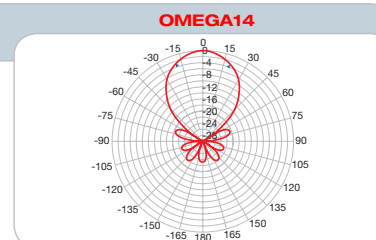
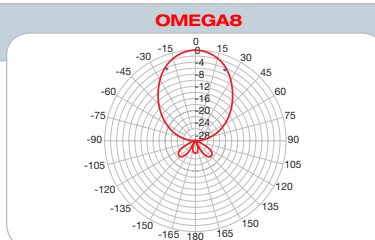
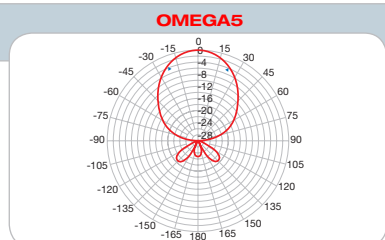
Item Code		OMEGA5 213021	OMEGA8 213022	OMEGA14 213023
Elements	No.	5	8	14
Band		UHF	UHF	UHF
Channels		E21-E69	E21-E69	E21-E69
Bandwidth	MHz	470-862	470-862	470-862
Maximum gain	dBi	14	16	17.5
Front-to-back ratio	dB	32	32	30
Return loss	dB	-18	-18	-18
Beamwidth (-3dB)	°	+/- 23	+/- 22	+/- 19
Wind load at 120Km/h (720N/m²)	Kg (N)	4.5 (44.14)	5.5 (53.95)	8.0 (78.48)
Connector	type	F	F	F
Impedance	Ohm	75	75	75
Maximum mast Ø	mm	60	60	60
Dimensions (L x W)	cm	77x58	107x58	159x58
<b>Packaging</b>				
Quantity	Pcs	2	2	2
Unit weight	Kg	1.6	1.78	2.4
Total weight	Kg	3.2	3.56	4.8
<b>Accessories</b>				
Horizontal polarisation			Included	
Horizontal polarisation with tilt adj.			Included	
Vertical polarisation			Included	
Vertical polarisation with tilt adj.			Included	
Auxiliary boom		N/A	CA2	Included

\* For more information see [www.dtg.org.uk](http://www.dtg.org.uk) web site.

### Gain



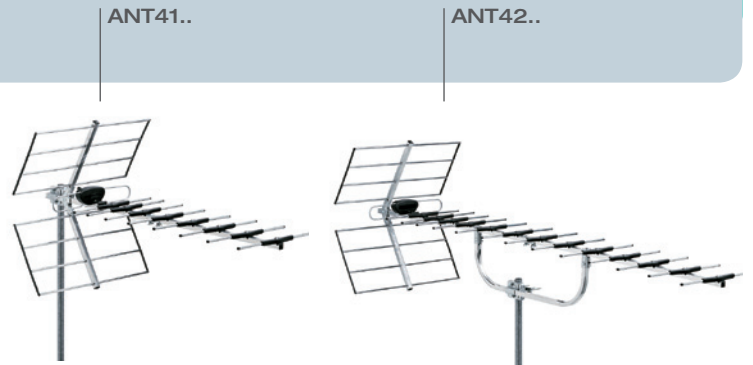
### Pattern



## UHF aerials

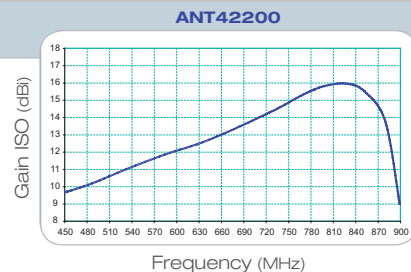
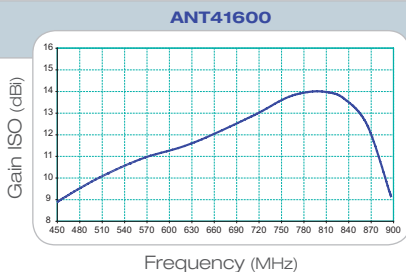
### DELTA Series

High performance Yagi aerials with F connector.  
Features a symmetrical wave director.  
Fixing clamp for maximum mast diameter 55mm.

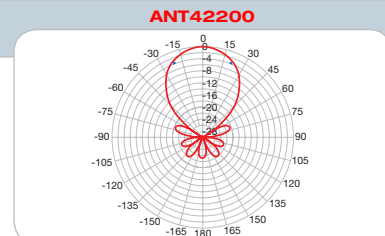
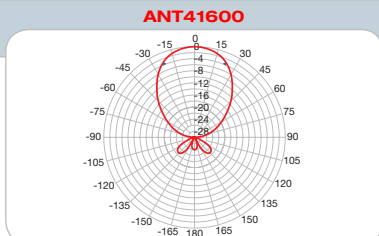


Item Code		ANT41600	ANT42200
Elements	No.	16	22
Band		IV + V	IV + V
Channels		E21-E69	E21-E69
Bandwidth	MHz	470-862	470-862
Maximum gain	dBi	14	16
Front-to-back ratio	dB	25	27
Return loss	dB	-18	-20
Beamwidth (-3dB)	°	+/-23	+/- 21
Wind load at 120Km/h (720N/m <sup>2</sup> )	Kg (N)	5.5 (53.95)	8.0 (78.48)
Connector	type	F	F
Impedance	Ohm	75	75
Maximum mast Ø	mm	55	55
Dimensions (L x W)	cm	163x41	260 x 41
<b>Packaging</b>			
Quantity	Pcs	5	5
Unit weight	Kg	2	2
Total weight	Kg	10	10
<b>Accessories</b>			
Horizontal polarisation			Included
Horizontal polarisation with tilt adj.			Included
Vertical polarisation			Included
Vertical polarisation with tilt adj.			Included
Auxiliary boom		N/A	Included

### Gain



### Pattern



# Aerials

## UHF aerials

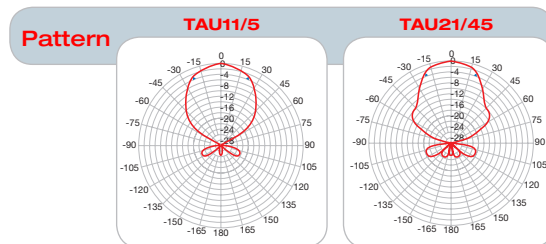
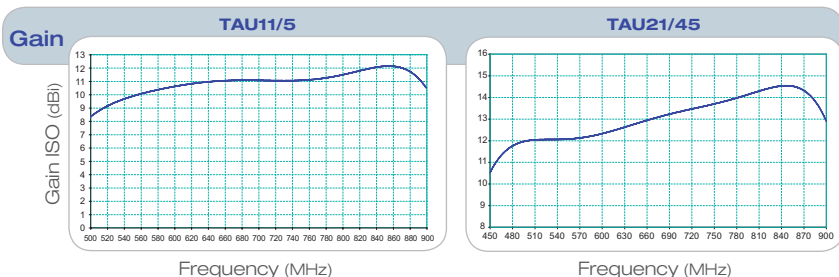
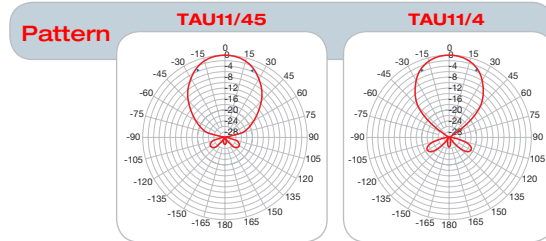
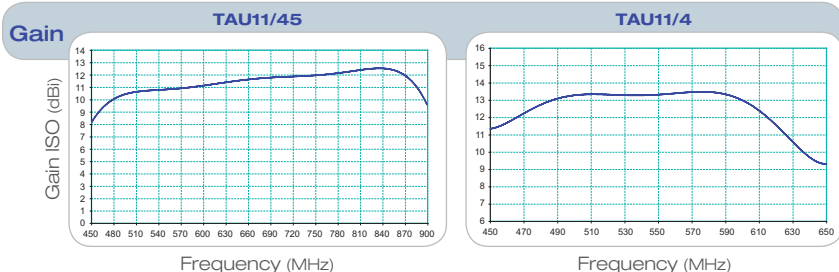
### TAU Series - grid reflector

Yagi aerials with F connector.  
Ideal for single or small MATV systems.  
Steel boom, elements and reflector guarantee mechanical sturdiness.  
Pre-assembled for easy installation.



Item Code		TAU11/45 213101	TAU11/4 213096	TAU11/5 213097	TAU21/45 213102
Elements	No.	11	11	11	21
Band		UHF	IV	V	UHF
Channels		E21-E69	E21-E37	E38-E69	E21-E69
Bandwidth	MHz	470-862	470-606	606-862	470-862
Maximum gain	dBi	12.5	13.5	12	14.5
Front-to-back ratio	dB	28	31	30	25
Return loss	dB	-16	-20	-17	-15
Beamwidth (-3dB)	°	+/- 23	+/- 23	+/- 23	+/- 22
Wind load at 120Km/h (720N/m <sup>2</sup> )	Kg (N)	3.2 (31.39)	3.7 (36.29)	3.2 (31.39)	4.8 (47.08)
Connector	type	F	F	F	F
Impedance	Ohm	75	75	75	75
Maximum mast Ø	mm	60	60	60	60
Dimensions (L x W)	cm	97x50	115x50	87x50	197x50
<b>Packaging</b>					
Quantity	Pcs	10	10	10	5
Unit weight	Kg	1.28	1.3	1.18	1.84
Total weight	Kg	14.8	15	13.8	10.2
<b>Accessories</b>					
Horizontal polarisation				Included	
Horizontal polarisation with tilt adj.				Included	
Vertical polarisation				Included	
Vertical polarisation with tilt adj.				Included	
Auxiliary boom				N/A	Included

\* For more information see [www.dtg.org.uk](http://www.dtg.org.uk) web site.



## UHF aerials

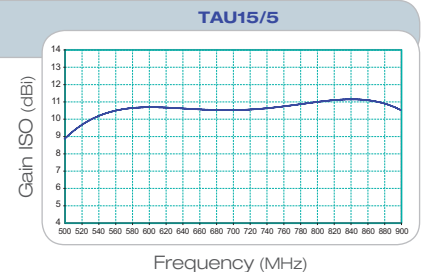
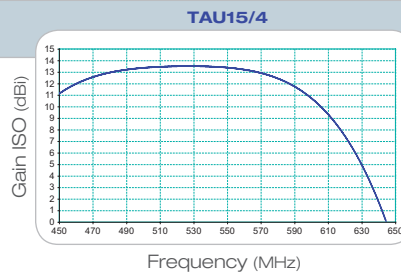
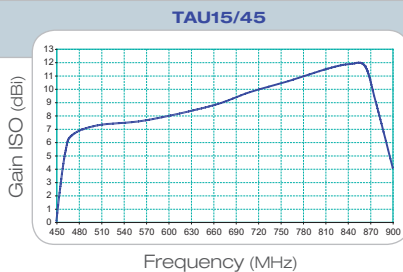
### TAU Series - tube reflector

Yagi aerials with F connector.  
 Ideal for single or small MATV systems.  
 Steel boom, elements and reflector  
 guarantee mechanical sturdiness.  
 Pre-assembled for easy installation.

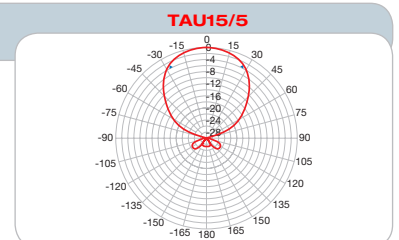
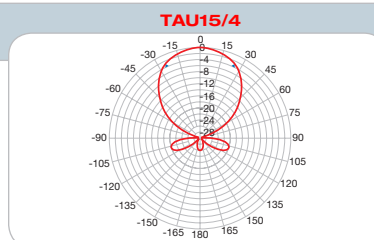
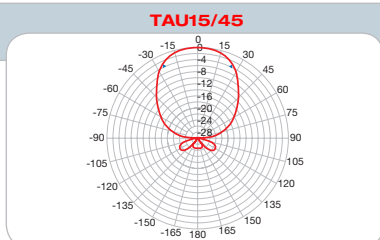


Item Code		TAU15/45 213100	TAU15/4 213094	TAU15/5 213095
Elements	No.	15	15	15
Band		UHF	IV	V
Channels		E21-E69	E21-E37	E38-E69
Bandwidth	MHz	470-862	470-606	606-862
Maximum gain	dBi	12	13.5	11
Front-to-back ratio	dB	24	24	28
Return loss	dB	-14	-20	-16
Beamwidth (-3dB)	°	+/- 25	+/- 25	+/- 25
Wind load at 120Km/h (720N/m²)	Kg (N)	2.8 (27.46)	3.3 (32.37)	2.8 (27.46)
Connector	type	F	F	F
Impedance	Ohm	75	75	75
Maximum mast Ø	mm	60	60	60
Dimensions (L x W)	cm	98x42	115x42	87x42
<b>Packaging</b>				
Quantity	Pcs	10	10	10
Unit weight	Kg	1	1.06	0.96
Total weight	Kg	12	12.6	11.6
<b>Accessories</b>				
Horizontal polarisation			Included	
Horizontal polarisation with tilt adj.			Included	
Vertical polarisation			Included	
Vertical polarisation with tilt adj.			Included	
Auxiliary boom			N/A	

### Gain



### Pattern



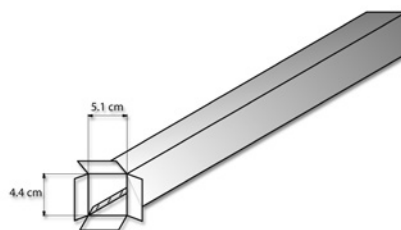


# Aerials

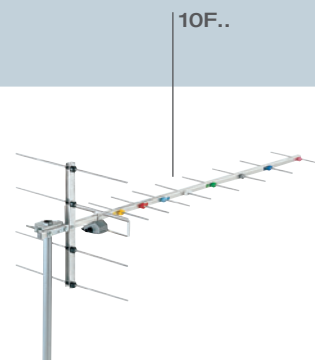
## UHF aerials

### Yagi channel grouped

Yagi channel grouped aerials. Good electrical performances and high selectivity make them ideal to receive particular groups of channels. High mechanical sturdiness in the structure.



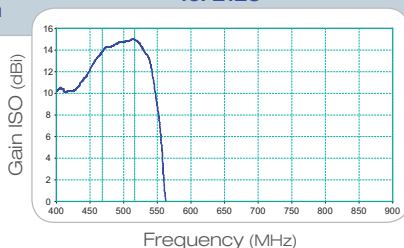
Easy to handle packaging



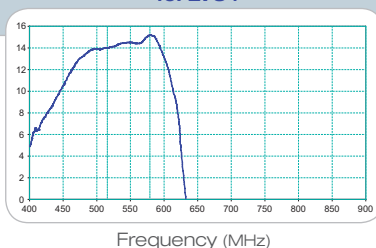
Item Code		10F2126 219525	10F2734 219532	10F3546 219541	10F4769 219563				
Elements	No.	10	10	10	10				
Channels		E21-E26	E27-E34	E35-E46	E47-E69				
Bandwidth	MHz	470-518	518-582	582-678	678-862				
Maximum gain	dBi	14.7	15	16	14.3				
Front-to-back ratio	dB	27	25	30	25				
Return loss	dB	-23	-23	-21	-15				
Beamwidth (-3dB)	°	+/- 21	+/- 21	+/- 20	+/- 20				
Wind load at 120Km/h (720N/m²)	Kg (N)	2.8 (27.44)	2.6 (25.48)	2.4 (23.52)	2.3 (22.54)				
Impedance	Ohm	75	75	75	75				
Maximum mast Ø	mm	42	42	42	42				
Dimensions (L x W)	cm	123x36	111x32	110x28	94x22				
<b>Packaging</b>									
Quantity	Pcs	20	20	20	20				
Unit weight	Kg	0.78	0.7	0.62	0.54				
Total weight	Kg	16	14.4	12.8	11.2				
<b>Accessories</b>									
Mast Ø	mm	42	60	42	60	42	60	42	60
Horizontal polarisation		Included	PVZ-60	Included	PVZ-60	Included	PVZ-60	Included	PVZ-60
Horizontal polarisation with tilt adj.		PVZ-60	PVZ-60	PVZ-60	PVZ-60	PVZ-60	PVZ-60	PVZ-60	PVZ-60
Vertical polarisation		Included	PVZ-60	Included	PVZ-60	Included	PVZ-60	Included	PVZ-60
Vertical polarisation with tilt adj.		PVZ-60	PVZ-60	PVZ-60	PVZ-60	PVZ-60	PVZ-60	PVZ-60	PVZ-60
Auxiliary boom		N/A							

Gain

10F2126

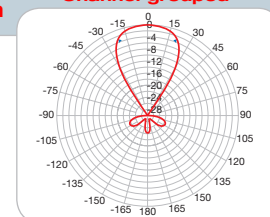


10F2734



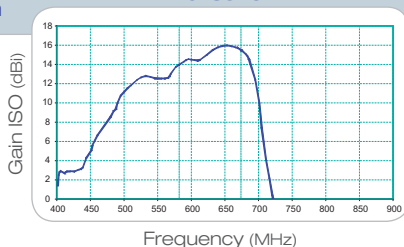
Pattern

Channel grouped

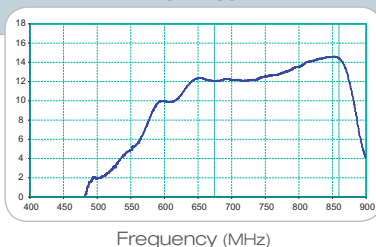


Gain

10F3546



10F4769

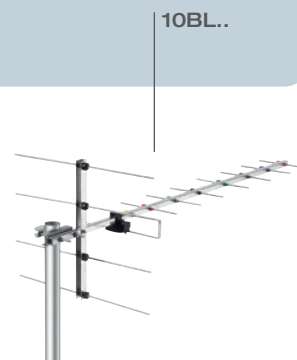


## UHF aerials

### Yagi wideband

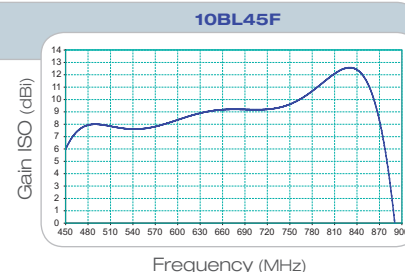
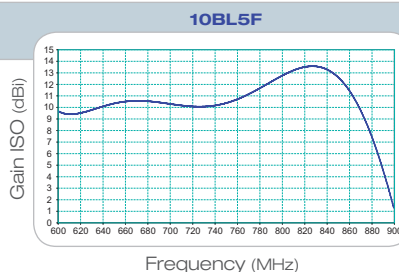
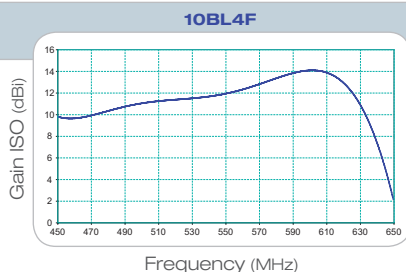
Yagi aerials with F connector and 4 element reflector, suitable for receiving full band IV, V or UHF.

Important characteristics include: good electrical performance, small practical packaging for easy installation, transport and storage.

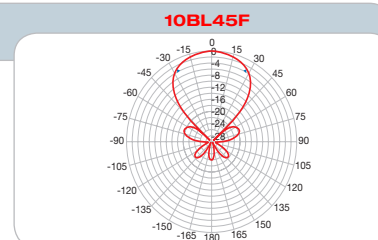
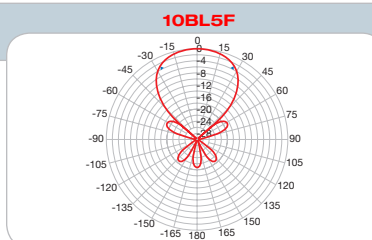
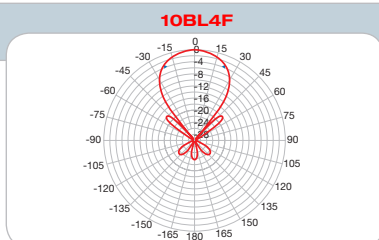


Item Code		10BL4F 219406		10BL5F 219407		10BL45F 219446	
Elements	No.	10		10		10	
Band		IV		V		UHF	
Channels		E21-E37		E38-E69		E21-E69	
Bandwidth	MHz	470-606		606-862		470-862	
Maximum gain	dBi	14		13.5		12.5	
Front-to-back ratio	dB	27		22		24	
Return loss	dB	-22		-17		-16	
Beamwidth (-3dB)	°	+/- 24		+/- 27		+/- 28	
Wind load at 120Km/h (720N/m <sup>2</sup> )	Kg (N)	2.8 (27.46)		2.3 (22.56)		2.3 (22.56)	
Impedance	Ohm	75		75		75	
Maximum mast Ø	mm	42		42		42	
Dimensions (L x W)	cm	135x36		103x28		94x36	
<b>Packaging</b>							
Quantity	Pcs	20		20		20	
Unit weight	Kg	0.752		0.612		0.625	
Total weight	Kg	18.04		15.24		15.5	
<b>Accessories</b>							
Mast Ø	mm	42	60	42	60	42	60
Horizontal polarisation		Included	PVZ-60	Included	PVZ-60	Included	PVZ-60
Horizontal polarisation with tilt adj.		PVZ-60					
Vertical polarisation		Included	PVZ-60	Included	PVZ-60	Included	PVZ-60
Vertical polarisation with tilt adj.		PVZ-60					
Auxiliary boom		N/A					

### Gain



### Pattern



# Aerials

## UHF aerials

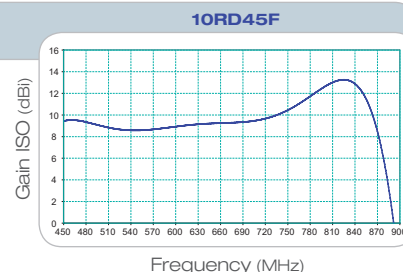
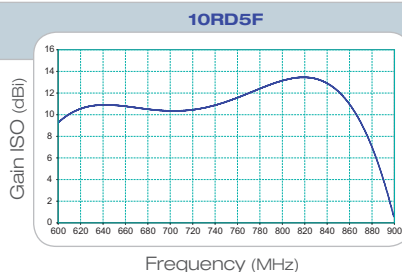
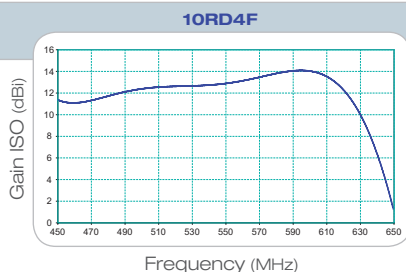
### Yagi fullband

Yagi aerials with F connector and grid reflector, suitable for receiving full band IV, V or UHF. Important characteristics include: good electrical performance, small practical packaging for easy installation, transport and storage.

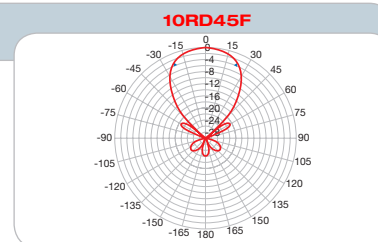
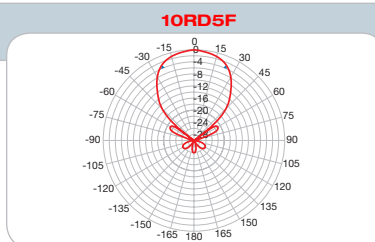
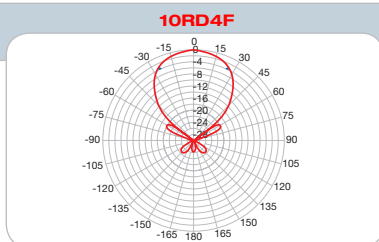


Item Code		10RD4F 219506	10RD5F 219507	10RD45F 219546	
Elements	No.	10	10	10	
Band		IV	V	UHF	
Channels		E21-E37	E38-E69	E21-E69	
Bandwidth	MHz	470-606	606-862	470-862	
Maximum gain	dBi	14	13.5	13	
Front-to-back ratio	dB	26	24	24	
Return loss	dB	-22	-18	-20	
Beamwidth (-3dB)	°	+/- 25	+/- 24	+/- 26	
Wind load at 120Km/h (720N/m <sup>2</sup> )	Kg (N)	2.9 (28.44)	2.5 (24.52)	2.5 (24.52)	
Connector	type	F	F	F	
Impedance	Ohm	75	75	75	
Maximum mast Ø	mm	42	42	42	
Dimensions (L x W)	cm	137x36	103x36	99x36	
<b>Packaging</b>					
Quantity	Pcs	20	20	20	
Unit weight	Kg	0.62	0.5	0.5	
Total weight	Kg	15.4	13	13	
<b>Accessories</b>					
Mast Ø	mm	42	60	42	60
Horizontal polarisation		Included	PVZ-60	Included	PVZ-60
Horizontal polarisation with tilt adj.				PVZ-60	
Vertical polarisation		Included	PVZ-60	Included	PVZ-60
Vertical polarisation with tilt adj.				PVZ-60	
Auxiliary boom					N/A

### Gain



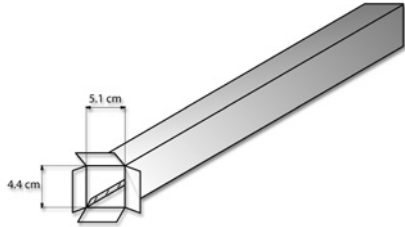
### Pattern



## UHF aerials

### Yagi fullband

20RD..

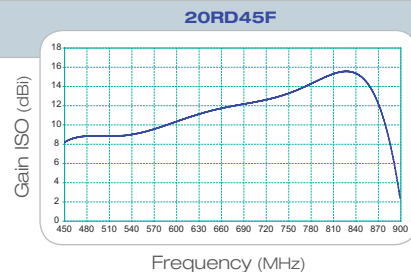
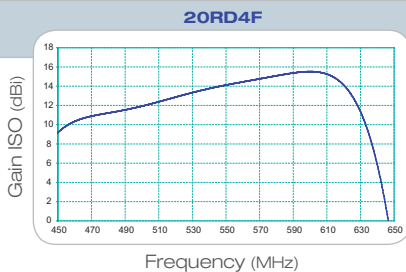


Easy to handle packaging

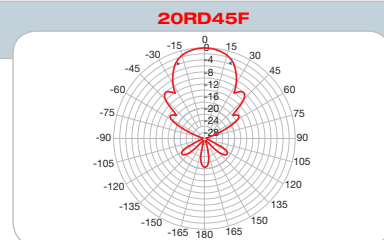
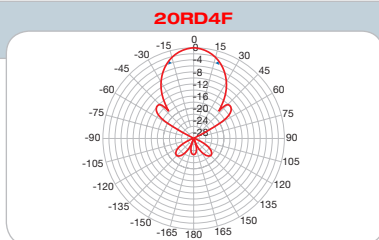


Item Code	20RD4F		20RD45F		
Elements	No.	20	20		
Band		IV	UHF		
Channels		E21-E37	E21-E69		
Bandwidth	MHz	470-606	470-862		
Maximum gain	dBi	15.5	15.5		
Front-to-back ratio	dB	28	24		
Return loss	dB	-18	-18		
Beamwidth (-3dB)	°	+/- 17	+/- 22		
Wind load at 120Km/h (720N/m <sup>2</sup> )	Kg (N)	5.1 (50.03)	4.3 (42.18)		
Connector	type	F	F		
Impedance	Ohm	75	75		
Maximum mast Ø	mm	42	42		
Dimensions (L x W)	cm	235x36	193x36		
<b>Packaging</b>					
Quantity	Pcs	20	20		
Unit weight	Kg	0.98	0.88		
Total weight	Kg	22.6	20.6		
<b>Accessories</b>					
Mast Ø	mm	42	60	42	60
Horizontal polarisation		Included	PVF-60	Included	PVF-60
Horizontal polarisation with tilt adj.					N/A
Vertical polarisation					PV10
Vertical polarisation with tilt adj.					PV10
Auxiliary boom					Included

### Gain



### Pattern

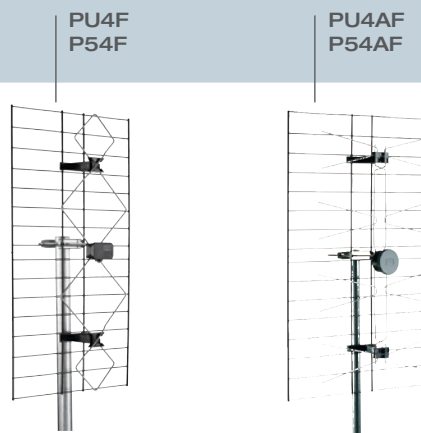


# Aerials

## UHF aerials

### Panel aerials

Panel aerials with high gain, steel reflector, F connector and aluminium radiant elements for PU4F and P54F and steel for PU4AF.

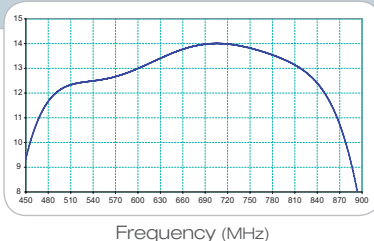
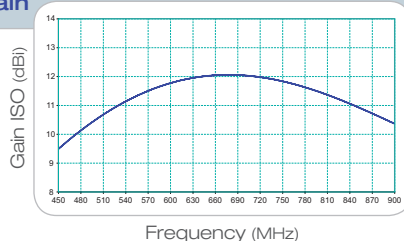


Item Code	PU4F 217424	PU4AF 217423	P54F 217425	P54AF 217426
Band	UHF	UHF	V	V
Channels	E21-E69	E21-E69	E38-E69	E38-E69
Bandwidth MHz	470-862	470-862	606-862	606-862
Maximum gain dBi	12	14	12	14
Front-to-back ratio dB	21	20	24	22
Return loss dB	-14	-14	-13	-15
Beamwidth (-3dB) °	+/-30	+/-24	+/-30	+/-24
Wind load at 120Km/h (720N/m <sup>2</sup> ) Kg (N)	4.0 (39.24)	5.0 (49.5)	3.2 (31.39)	4.0 (39.24)
Impedance Ohm	75	75	75	75
Maximum mast Ø mm	60	60	60	60
Dimensions (H x L) cm	71x38.5	50x76.5	62x32	71x38.5
<b>Packaging</b>				
Quantity Pcs	15	10	15	15
Unit weight Kg	0.94	1.3	0.8	1.1
Total weight Kg	14.8	13.3	12.4	16.9
<b>Accessories</b>				
Horizontal polarisation	Included			
Horizontal polarisation with tilt adj.	N/A			
Vertical polarisation	PVP			
Vertical polarisation with tilt adj.	N/A			
Auxiliary boom	N/A			

### Gain

PU4F

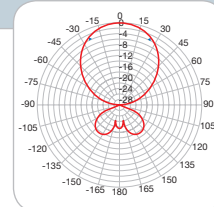
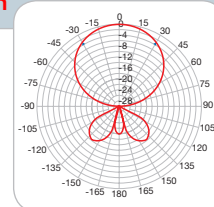
PU4AF



### Pattern

PU4F

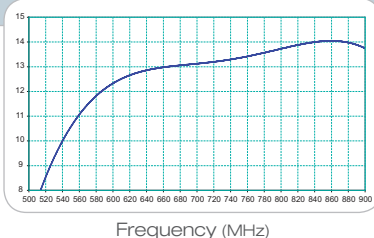
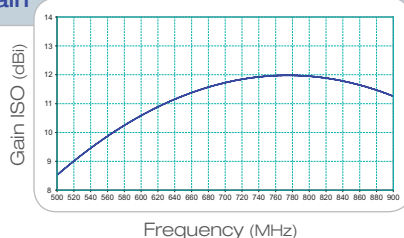
PU4AF



### Gain

P54F

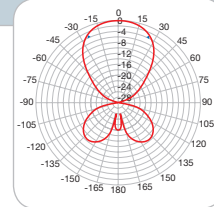
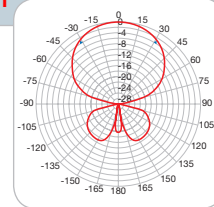
P54AF



### Pattern

P54F

P54AF

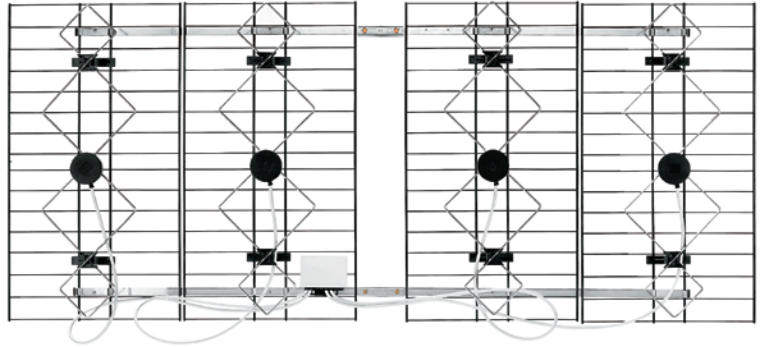


## UHF aerials

### Panel aerials

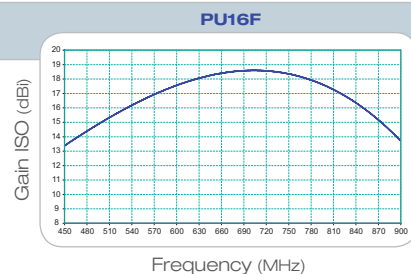
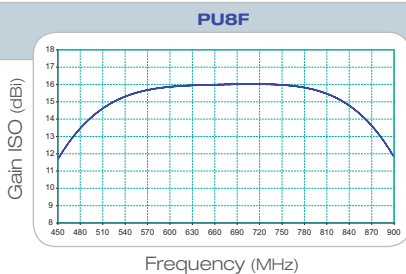
PU16F

Multiple panel aerials with F connector. High gain and directivity of the multiple panel series are ideal for the reception of weak signals and signals from lots of different transmitters.

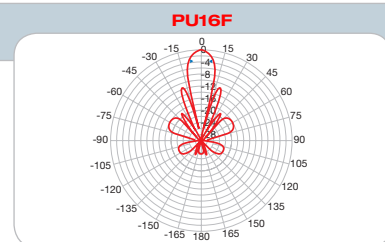
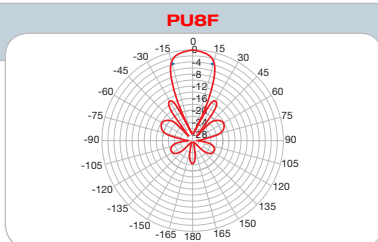


Item Code	PU8F 217428	PU16F 217436
Band	UHF	UHF
Channels	E21-E69	E21-E69
Bandwidth	MHz	470-862
Maximum gain	dBi	16
Front-to-back ratio	dB	26
Return loss	dB	-10
Beamwidth (-3dB)	°	+/-15
Wind load at 120Km/h (720N/m <sup>2</sup> )	Kg(N)	13 (127.53)
Impedance	Ohm	75
Maximum mast Ø	mm	60
Dimensions (L x W)	cm	88.5x72
<b>Packaging</b>		
Quantity	Pcs	1
Unit weight	Kg	2.9
Total weight	Kg	2.9
<b>Accessories</b>		
Horizontal polarisation		Included
Horizontal polarisation with tilt adj.		N/A
Vertical polarisation		N/A
Vertical polarisation with tilt adj.		N/A
Auxiliary boom		N/A

### Gain



### Pattern



# Aerials

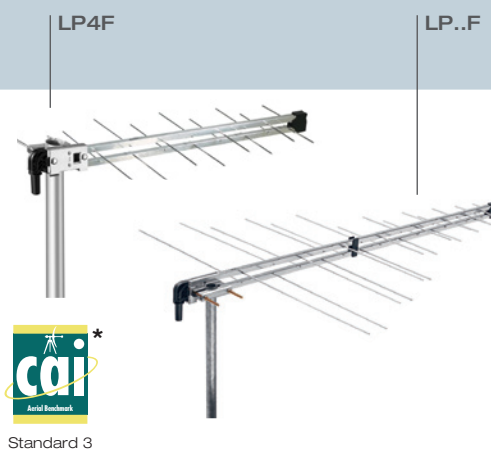
## LOG-PERIODIC aerials

### LP Series with F connector

Log-periodic pre-assembled aerials characterised by: easy connection due to the connector being located near the mast clamp. High level design of the dipole connection guarantees a highly reliable RF contact. Due to the specific mast clamp these aerials can be assembled in vertical or horizontal polarisation without additional accessories.

They have excellent mechanical clamp resistance of the boom elements, great mechanical resistance at the rotation around the mast and good electrical performances.

F connector is protected by a cap with bayonet clamp.

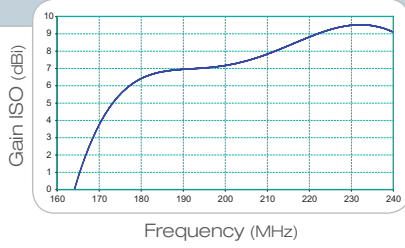


Item Code	LP345F 216170	LP345MF 216169	LP4F 216151	LP45NF 216150
Band	III+UHF	III+UHF	IV	UHF
Channels	E5-E12 / E21-E69	E5-E12 / E21-E69	E21-E37	E21-E69
Bandwidth MHz	174-230 / 470-862	174-230 / 470-862	470-606	470-862
Maximum gain dBi	9.5 / 11	8.5 / 9.5	10	11.5
Front-to-back ratio dB	24 / 32	22 / 30	32	36
Return loss dB	-16 / -16	-14 / -13	-18	-15
Beamwidth (-3dB) °	+/-34   +/-31	+/-34   +/-30	+/-25	+/-25
Wind load at 120Km/h (720N/m <sup>2</sup> ) Kg (N)	3.9 (38.25)	2.7 (26.48)	2.8 (27.46)	3.0 (29.43)
Impedance Ohm	75	75	75	75
Maximum mast Ø mm	60	60	60	60
Dimensions (L x W) cm	115x86	77x86	65x33	115x86
<b>Packaging</b>				
Quantity Pcs	20	20	60	20
Unit weight Kg	1.12	0.9	0.56	0.792
Total weight Kg	22.9	18.5	38	15.84
<b>Accessories</b>				
Horizontal polarisation	Included			
Horizontal polarisation with tilt adj.	PV10			
Vertical polarisation	Included			
Vertical polarisation with tilt adj.	PV10			
Auxiliary boom	N/A			

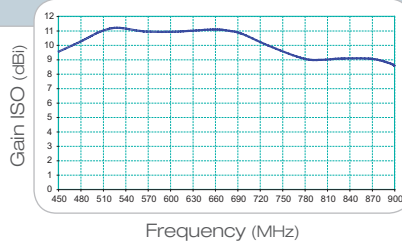
\*For more information see [www.dtg.org.uk](http://www.dtg.org.uk) web site.

## Gain

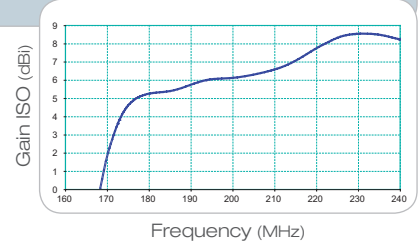
**LP345F - Band III**



**LP345F - UHF Band**

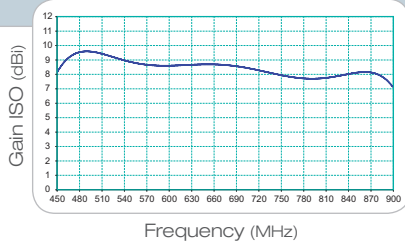


**LP345MF - Band III**

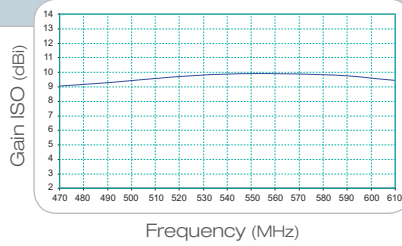


## Gain

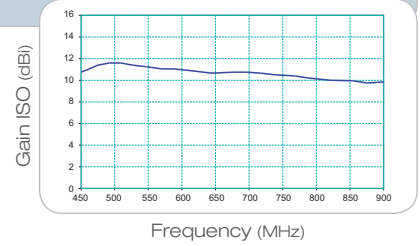
**LP345MF - UHF Band**



**LP4F - Band IV**

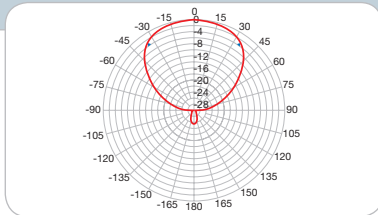


**LP45NF - UHF Band**

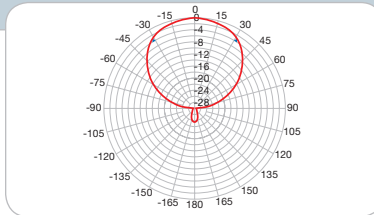


## Pattern

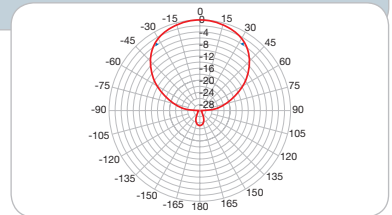
**LP345F - Band III**



**LP345F - UHF Band**

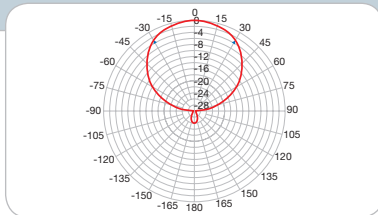


**LP345MF - Band III**

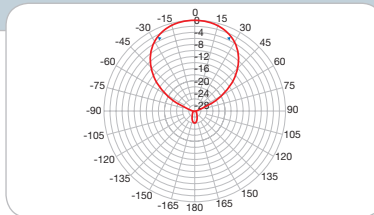


## Pattern

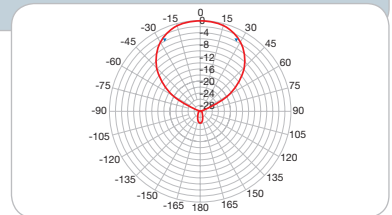
**LP345MF - UHF Band**



**LP4F - Band IV**



**LP45NF - UHF Band**





# Aerials

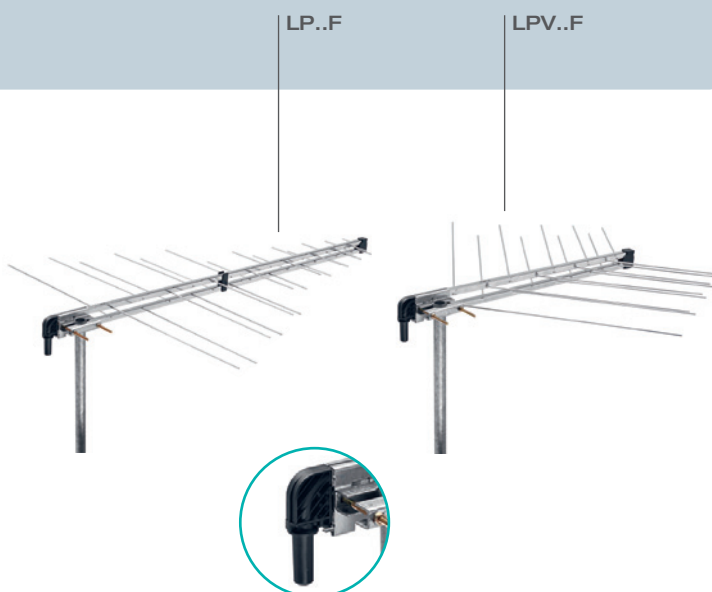
## LOG-PERIODIC aerials

### LP Series with F connector

Log-periodic pre-assembled aerials characterised by: easy connection due to the connector being located near the mast clamp. High level design of the dipole connection guarantees a highly reliable RF contact. Due to the specific mast clamp these aerials can be assembled in vertical or horizontal polarisation without additional accessories.

They have excellent mechanical clamp resistance of the boom elements, great mechanical resistance at the rotation around the mast and good electrical performances.

F connector is protected by a cap with bayonet clamp.

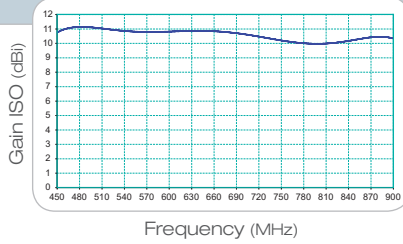


F connector detail

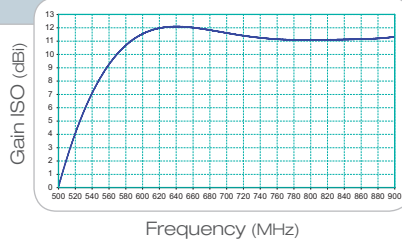
Item Code	LP45F 216149	LP5F 216108	LPV345F 217350	LP34F 216135
Band	UHF	V	III+UHF	III+IV
Channels	E21-E69	E38-E69	E5-E12 / E21-E37	E5-E12
Bandwidth	MHz	470-862	606-862	174-230 / 470-606
Maximum gain	dBi	11	12	9 / 11.5
Front-to-back ratio	dB	36	36	24 / 32
Return loss	dB	-15	-15	-18 / -13
Beamwidth (-3dB)	°	+/-28	+/-25	+/-23   +/-21
Wind load at 120Km/h (720N/m <sup>2</sup> )	Kg (N)	3.0 (29.43)	3.0 (29.43)	2.8 (27.46)
Connector	type	F	F	F
Impedance	Ohm	75	75	75
Maximum mast Ø	mm	60	60	60
Dimensions (L x W)	cm	99x32	99x24	75x79
<b>Packaging</b>				
Quantity	Pcs	20	20	20
Unit weight	Kg	0.792	0.767	0.85
Total weight	Kg	16.34	15.84	17.5
<b>Accessories</b>				
Horizontal polarisation			Included	
Horizontal polarisation with tilt adj.			PV10	
Vertical polarisation			Included	
Vertical polarisation with tilt adj.			PV10	
Auxiliary boom			N/A	

## Gain

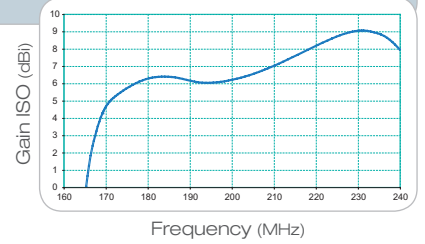
**LP45F - UHF Band**



**LP5F - Band V**

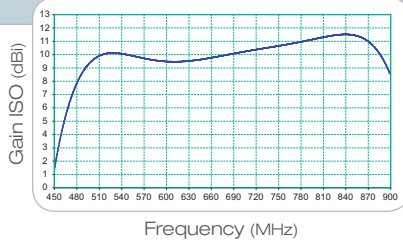


**LPV345F - Band III**

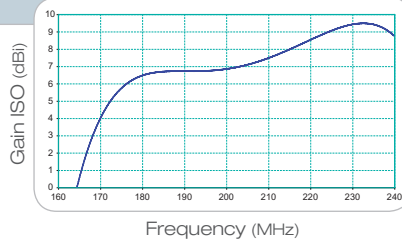


## Gain

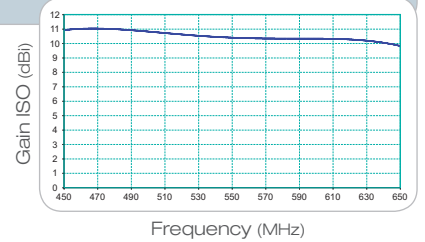
**LPV345F - UHF Band**



**LP34F - Band III**

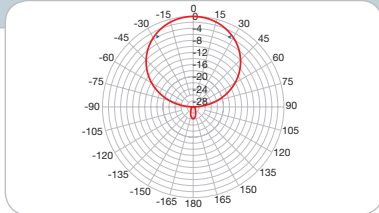


**LP34F - Band IV**

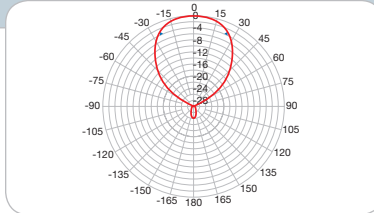


## Pattern

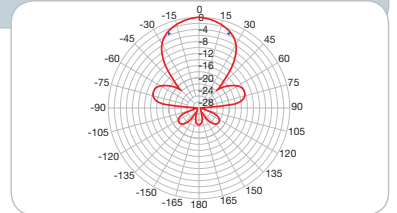
**LP45F - UHF Band**



**LP5F - Band V**

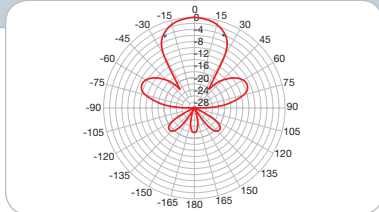


**LPV345F - Band III**

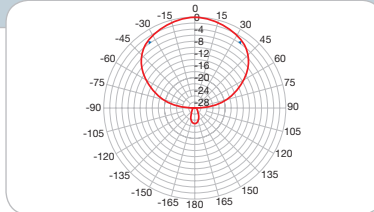


## Pattern

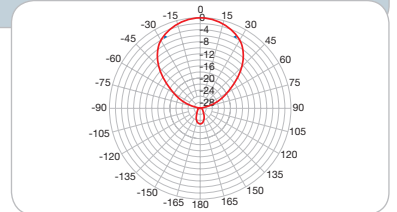
**LPV345F - UHF Band**



**LP34F - Band III**



**LP34F - Band IV**

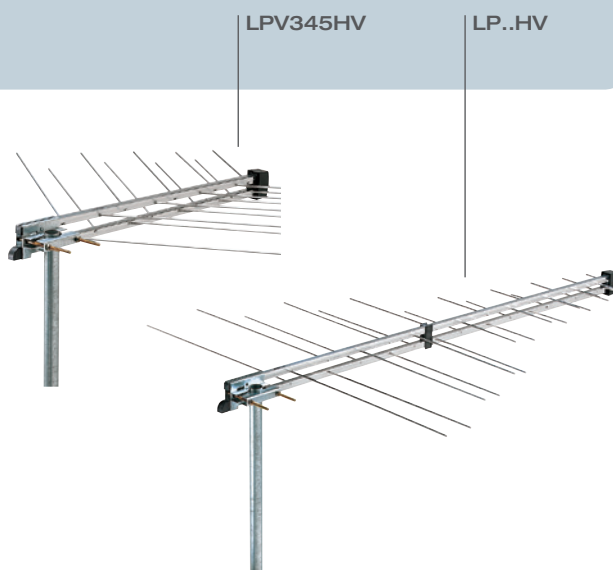


# Aerials

## LOG-PERIODIC aerials

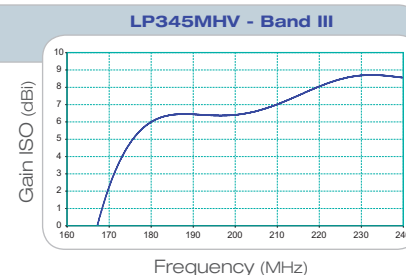
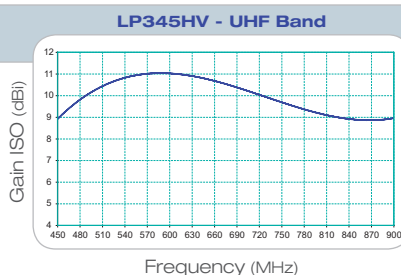
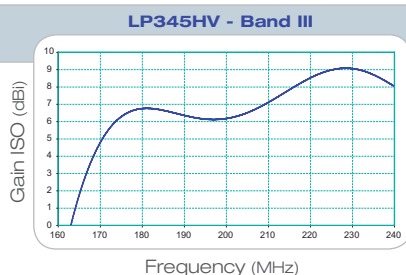
### LP Series

Pre-assembled aerials that are easy to install and characterised by a highly reliable RF connection. They are available in various models in order to fulfil most installations.

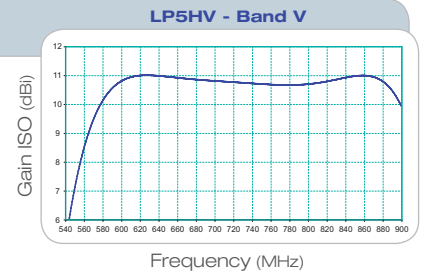
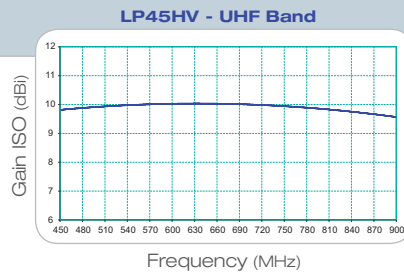
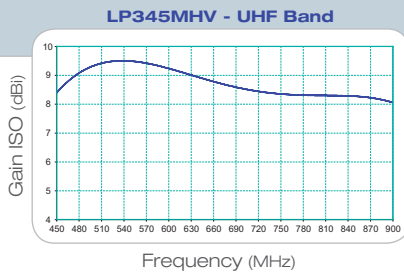


Item Code	LP345HV 216168	LP345MHV 216167	LP45HV 216147	LP5HV 216107	LPV345HV 217349	LP34HV 216134
Band	III+UHF	III+UHF	UHF	V	III+UHF	III + IV
Channels	E5-E12 E21-E69	E5-E12 E21-E69	E21-E69	E38-E69	E5-E12 E21-E69	E5-E12 E21-E37
Bandwidth	MHz	MHz	MHz	MHz	MHz	MHz
	174-230 470-862	174-230 470-862	470-862	606-862	174-230 470-862	174-230 470-606
Maximum gain	dBi	dBi	dBi	dBi	dBi	dBi
	9 / 11	8.5 / 9.5	10	11	9 / 11.5	9 / 10.5
Front-to-back ratio	dB	dB	dB	dB	dB	dB
	24 / 32	22 / 30	36	36	24 / 32	21 / 25
Return loss	dB	dB	dB	dB	dB	dB
	-13/-13	-14 /-12	-15	-15	-18 / -18	-18 / -13
Beamwidth (-3dB)	°	°	°	°	°	°
	+/-34 +/-31	+/-34 +/-30	+/-28	+/-25	+/-23 +/-21	+/-35 +/-28
Wind load at 120Km/h (720N/m <sup>2</sup> )	Kg (N)	Kg (N)	Kg (N)	Kg (N)	Kg (N)	Kg (N)
	3.9(38.25)	2.7(26.48)	3.0(29.43)	3.0(29.43)	3.9(38.25)	2.8(27.46)
Impedance	Ohm	Ohm	Ohm	Ohm	Ohm	Ohm
	75	75	75	75	75	75
Maximum mast Ø	mm	mm	mm	mm	mm	mm
	60	60	60	60	60	60
Dimensions (L x W)	cm	cm	cm	cm	cm	cm
	111x86	72x86	94x32	94x24	111x86	111x86
<b>Packaging</b>						
Quantity	Pcs	Pcs	Pcs	Pcs	Pcs	Pcs
	20	20	20	20	20	20
Unit weight	Kg	Kg	Kg	Kg	Kg	Kg
	1.04	0.83	0.78	0.74	0.8	1.04
Total weight	Kg	Kg	Kg	Kg	Kg	Kg
	21.3	17.1	16.1	15.3	16.5	21.3
<b>Accessories</b>						
Horizontal polarisation			Included			
Horizontal polarisation with tilt adj.			PV10			
Vertical polarisation			Included			
Vertical polarisation with tilt adj.			PV10			
Auxiliary boom			N/A			

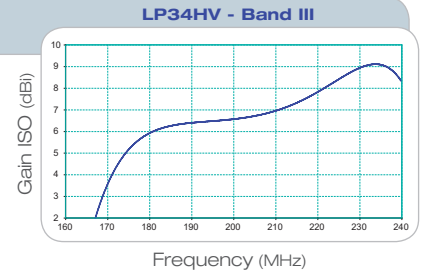
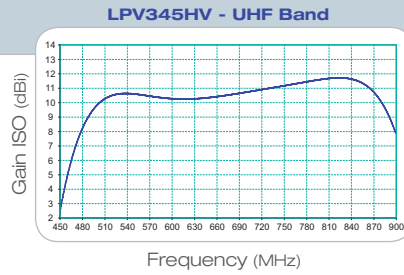
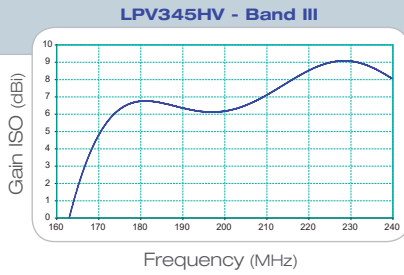
### Gain



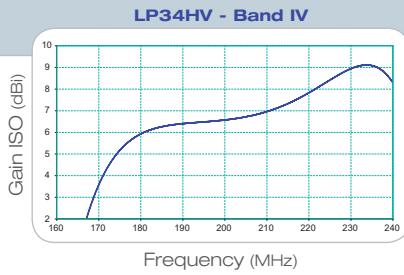
## Gain



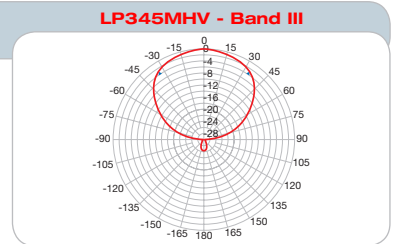
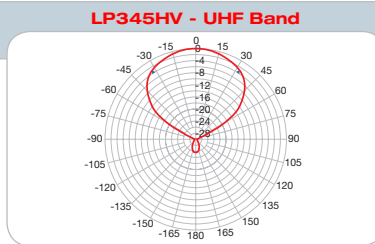
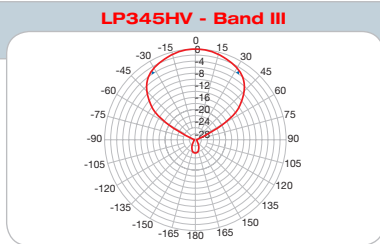
## Gain



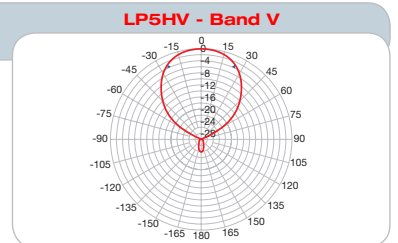
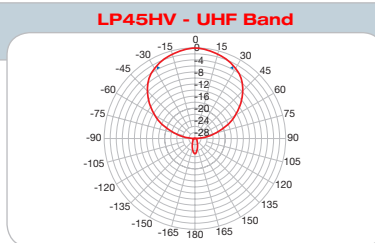
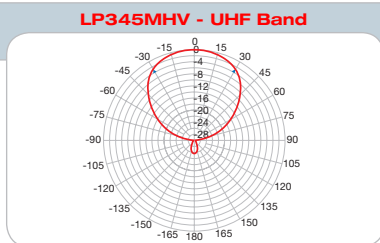
## Gain



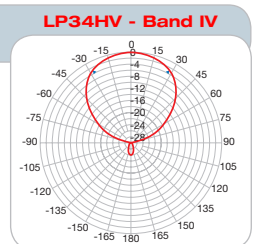
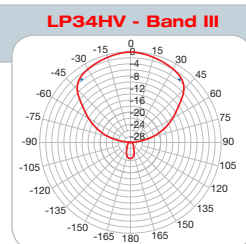
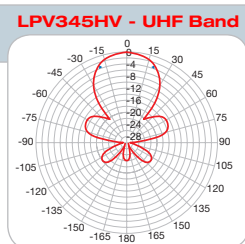
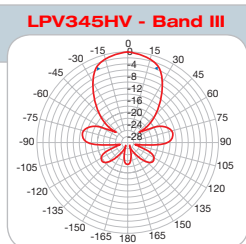
## Pattern



## Pattern



## Pattern



# Aerials

## Indoor aerials

### Amplified indoor aerial

DOMUS

All the aerials from the Fracarro range are capable of receiving analogue and digital terrestrial signals (ready for DTT).

Power supply: 230Vac - 50Hz or 12Vdc

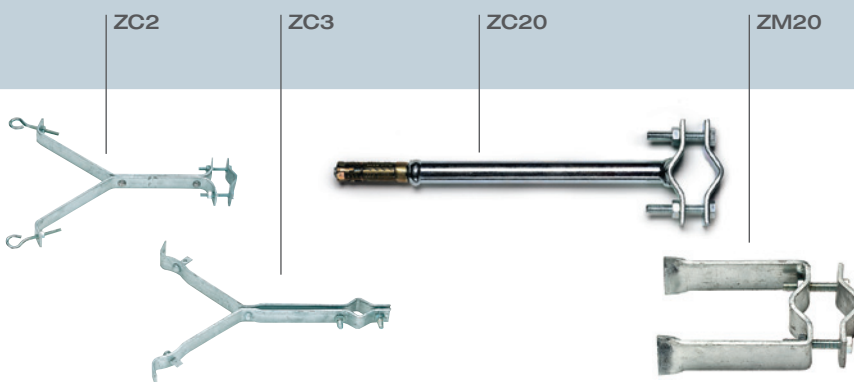


Item	Code	VHF gain dB	UHF gain dB
DOMUS	289560	20	32

## Aerial accessories

### Mast brackets

Treated galvanised steel.  
For masts: TN15, TN25, TN32, TK4 and TK5.  
See page 42



Item	Code	Description	Packaging Pcs
ZC2	293302	Reinforced - Chimney mount - for Ø 25-48mm - overhang 16.5cm	25
ZC3	293330	Chimney mount - for Ø 25-35mm - overhang 17cm	40
ZC20	293320	Wall mount - for Ø 25-48mm - length 20cm	50
ZM20	289541	Wall bracket for elbow-shaped mast	20
AN1	293301	<b>Corner plate</b> with grooves for iron wire lashings	100
BA6	293400	<b>Base for telescopic masts</b> suitable for ridged roofs - for Ø 25-48mm.	20

## Aerial accessories

### Auxiliary booms

CA1

CA1 and CA2 are designed to be used with different aerials.  
Auxiliary boom increases the mechanical strength of these aerials.



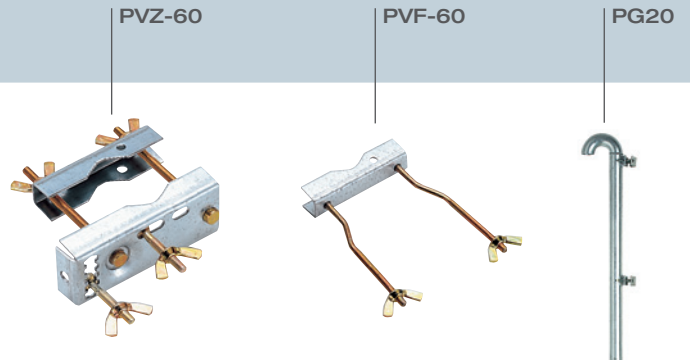
Item	Code	Wind load at 120Km/h		Packaging	
		Kg	Pcs	Kg	
CA1	219600	0.8	20	6.2	
CA2	219602	0.8	20	6.2	

Check the technical data of each antenna for the required auxiliary boom.

## Aerial accessories

### Aerial fittings

Treated galvanised steel.

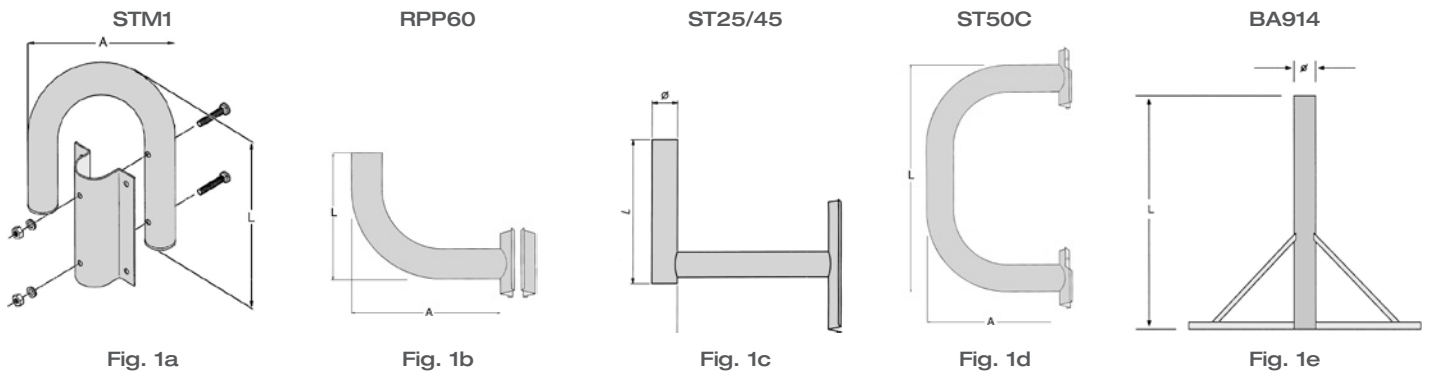


Item	Code	Description	Length mm	Packaging Pcs
<b>PV10</b>	210011	For vertical polarisation. Max. mast Ø 60mm	280	30
<b>PV20</b>	210022	For vertical polarisation of two coupled band III or IV aerials	950	20
<b>For maximum mast Ø 60mm</b>				
<b>PVZ-60</b>	210065	For zenithal orientation		25
<b>PVF-60</b>	210064	Fixed horizontal polarisation		25
<b>PVP</b>	210002	For vertical polarisation panel aerials		20

Item	Code	Description	Length m	Packaging Pcs
<b>PG20</b>	289540	<b>Elbow shaped mast for roof</b> Diameter 42x3mm - Tube grip: diameter 25-45mm	2	1

## Aerial accessories

### Mechanical accessories for satellite dishes



Item	Code	Description	Fig.	Ø mm	L cm	H cm	Mast bracket mm	Packaging Pcs	Weight Kg
<b>STM1</b>	281801	Wall mast	1a	40	31	25	-	1	1.5
<b>ST25M</b>	289280	Wall mast	1c	40	23	25	30-80*	1	1.73
<b>ST45M</b>	289281	Wall mast	1c	40	23	45	30-80*	1	2.26
<b>ST50C</b>	289173	Wall chimney bracket	1d	50	42	25	-	10	2.2
<b>RPP60</b>	289182	Dish mount	1b	40	25	25	30-60	20	1.25
<b>BA914</b>	280674	Base for dish mount	1e	76	100	-	-	1	13
<b>STF</b>	289282	Mast mounting kit for ST25M and ST45M		30-80				1	0.56
<b>STK</b>	289174	ST50C accessories chimney						1	0.4

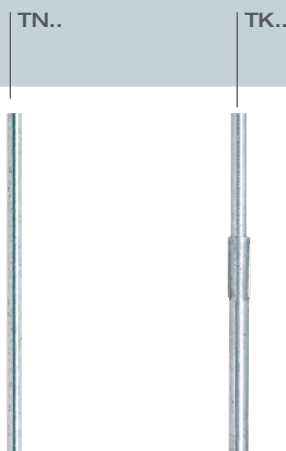
\* Use STF kit for mast installation.

# Aerials - SAT dishes

## Aerial accessories

### Self-supporting masts

Dip treated galvanised steel.



Item	Code	Description	Height m	Weight Kg	Ø mm	Wind speed Km/h	Wind load Kgm
<b>Single section model</b> (packaging 10 pcs)							
<b>TN15</b>	293115	Can support one 10 element UHF aerial + one 4 element VHF b.3 aerial.	1.5*	0.9	25x1	100	3.1
<b>TN25</b>	293125	Can support one 10 element UHF aerial + one 2 element VHF b.1 or one 6 element VHF b.3 aerial.	2.5	1.5	25x1	110	5.1
<b>TN32</b>	293132	Can support any type of VHF aerial + one UHF aerial.	2.5	3.8	32x2	-	22.0

Item	Code	Description	Height m	Weight Kg	Two sections upper Ø	lower Ø	Wind load Kgm
<b>Single section model</b> (packaging 5 pcs)							
<b>TK4</b>	293140	Can support one 10 element UHF aerial + one 2 element VHF b.1 or one 6 element VHF b.3 aerial - with tapered joint	4	4.2	25x1	32x2	15.4
<b>TK5</b>	293150	Can support one 10 element UHF aerial + one 4 element VHF b.3 aerial with tapered joint	5	5.2	25x1	32x2	8.8

\* Two TN15 are mounted together to obtain a height of 3 metres: all performances refer to this height.

## Aerial accessories

### Guyed extendable masts

Dip treated galvanised steel complete with brace attachment rings and section end markers.



Item	Code	Description	Wind load Kgm
<b>PT4</b>	293104	Height 3.80m - 2x2m - Weight 3.85Kg - Ø 25x1.5 - 30x1.5mm - Packaging 5 pcs	7.2**
<b>PT6</b>	293106	Height 5.60m - 3x2m - Weight 6.3Kg - Ø 25x1.5 - 30x1.5 - 35x1.5mm - Packaging 3 pcs	7.2**
<b>PT8</b>	293108	Height 7.40m - 4x2m - Weight 9.2Kg - Ø 25x1.5 - 30x1.5 - 35x1.5 - 40x1.5mm - Packaging 2 pcs	7.2**

\*\* Loading at the highest fixing point.

## SAT dishes

### PENTA Series



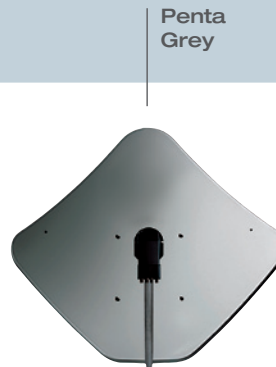
Back of Penta85



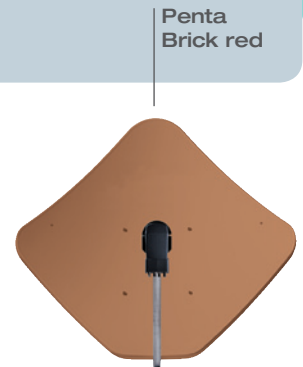
Dual feed support



Penta White



Penta Grey



Penta Brick red

Item		PENTA DIGIT		PENTA85	
Frequency range	GHz	10.7-12.75		10.7-12.75	
Dimensions Ø	mm	624x624		775x775	
Offset angle	°	22.3		22.1	
Efficiency		≥70%		≥70%	
Gain at 10.95GHz	dB	36.5		39	
Cross polarisation on axis	dB	>37		>38	
First side lobe	dB	<-32		<-34	
Noise temperature		40°K at 30° elevat.		40°K at 30° elevat.	
F/D ratio		0.7		0.7	
Beamwidth (-3dB)	°	3		2.2	
LNB clamp	mm	23-28; 40; 60		23-28; 40; 60	
Elevation angle		Maximum tilt 60°		Maximum tilt 60°	
Mast clamp	mm	35-80		35-80	
Material		Alumium/steel		Alumium/steel	
Bracket material		Steel - alumium/zinc treatment		Steel - alumium/zinc treatment	
Wind load at 150Km/h	Kg	53		81	

### INDIVIDUAL PACKAGING

Equivalent Ø cm*	Model	Item	Code	Material	Colours	Dual feed support 6°	Mounting kit	Packaging Pcs
68	DIGIT	DIGIT-A	211104	Steel	White	DFPDIGIT (211003)	Included	1
		DIGIT-GA	211105		Grey			
		DIGIT-RA	211106		Brick red			
		DIGIT	211101	Aluminium	White			
		DIGIT-G	211102		Grey			
		DIGIT-R	211103		Brick red			
85	PENTA	PENTA85-A	211205	Steel	White	DFP85R (211002)	Included	1
		PENTA85G-A	211206		Grey			
		PENTA85R-A	211207		Brick red			
		PENTA85	211201	Aluminium	White			
		PENTA85G	211203		Grey			
		PENTA85R	211204		Brick red			

### MULTIPLE PACKAGING

Equivalent Ø cm*	Model	Item	Code	Material	Colours	Dual feed support 6°	Mounting kit	Packaging Pcs
68	DIGIT	DGTX10-A	211112	Steel	White	DFPDIGIT (211003)	ZNC DGTX10 (211110)	10
		DGTX10-GA	211116		Grey			
		DGTX10-RA	211115		Brick red			
		DGTX10	211111	Aluminium	White			
85	PENTA	P85X10-A	211210	Steel	White	DFP85R (211002)	ZNC85X10 (211208)	10
		P85GX10-A	211217		Grey			
		P85RX10-A	211216		Brick red			
		P85X10	211209	Aluminium	White			
		P85GX10-B	211212		Grey			
		P85RX10-B	211211		Brick red			

\* Diameter equivalent to that of a traditional offset dish.



# SAT dishes

## SAT dishes

### Offset Series



Diameter cm	Item	External dimensions mm	Offset angle	F/D	Elevation range	Mast diameter mm	Efficiency %	Gain at 10.7GHz dB	Gain at 11.7GHz dB	Gain at 12.7GHz dB
60	SAT11601	632x583	24	0.66	4 / 55	30-60	>69	34.4	35	36.2
	RO60A	632x583	24	0.66	4 / 55	20-50	>69	34.7	35.5	36.2
75	SAT12751*	750x640	23	0.7	0 / 55	30-60	>70	36.2	36.5	36.9
	SAT12753	830x750	23	0.65	15 / 48	50-60	>70	37.2	37.6	38.0
80	P80APN	768x846	23	0.66	0 / 80	30-60	>75	37.0	37.7	38.5
	RO80AP	768x846	23	0.66	0 / 80	30-60	>75	37.0	37.7	38.5
	RO80AS	845x779	23	0.66	17 / 58	30-60	>75	37.0	37.7	38.5
85	RO85AP	910x837	21	0.66	1 / 60	30-60	>70	37.4	38.2	38.9
90	SAT12901	1030x900	21	0.5	5 / 55	50-60	>70	38.1	38.8	39.5
100	PT100C	970x1040	21	0.66	0 / 80	30-90	>70	39.7	40.2	40.5
	PT100AC	970x1040	21	0.66	0 / 80	30-90	>70	39.7	40.2	40.5
	RO100CR	970x1040	21	0.66	0 / 80	30-90	>70	39.7	40.2	40.5
	RO100AC	970x 1040	21	0.66	0 / 80	30-90	>70	39.7	40.2	40.5
	RO100AP	1032x952	23	0.66	0 / 90	35-60	>72	39.4	40.0	40.6
120	RO120N	1164x1240	23	0.66	20 / 50	55-100	>70	40.5	41.4	42.3
125	RO125AP	1345x1240	23	0.66	0 / 90	40-60	>74	41.0	41.6	42.4
150	RO150	1614x1488	21.3	0.66	20 / 90	55-100	>70	42.6	43.4	44.2

\* BI-SAT 6°/9°

### INDIVIDUAL PACKAGING

Equivalent Ø cm	Item	Code	Material	Colour	Dual feed support 6°	Mounting kit	Packaging Pcs
75	SAT12751	SAT12751	Composit	White	-	Included	1
	SAT12753	SAT12753	Composit	White			
80	P80APN	211316	Steel	White	DFAN (289487)	Included	
90	SAT12901	SAT12901	Composit	White	-	Included	
100	PT100C	289291	Aluminium	White	DFO100C (289294)	Included	
	PT100AC	289293	Steel	White	DFO100C (289294)	Included	
120	RO120N	289197	Aluminium	White	DFO120N (289199)	AZO120N-PP (289949)	
150	RO150	289139	Aluminium	White	DFO120N (289199)	AZO150 (289140)	

### MULTIPLE PACKAGING

Equivalent Ø cm	Item	Code	Material	Colour	Dual feed support 6°	Mounting kit	Packaging Pcs
60	RO60AX10	280610	Steel	White	-	ZNO60AC (289279)	10
	SAT11601X500	289428	Steel	White		ZNO60AV (289430)	500
80	RO80APX50	289479	Steel	White	DFAN (289487)	ZNO80APN (289480)	50
	RO80APX200	289283					200
	RO80ASX200 <b>New</b>	287147	Steel	White	DFAN (289487)	ZNO80AS (287149)	200
	RO80ASX50 <b>New</b>	287148	Steel	White			50
85	RO85APX5G	289828	Aluminium	White	DFO100C (289294)	ZNO85PX5G (289829)	5
100	RO100APX5G	289830	Aluminium	White	DFAN (289487)	ZNO100PX5 (289831)	5
	RO100CRX6	289287	Aluminium	Red	DFO100C (289294)	ZNO100C (289285)	6
	RO100ACX6	289299	Steel	Red			6
125	RO125APX3G	289832	Aluminium	Red	-	ZNO125PX3 (289833)	3

Ø (cm) dish	Wind load refers to the diameter of the reflector with 120Km/h wind speed (Kg)								
	60	65	75	80	85	90	100	120	150
Wind load @ 120Km/h (Kg)	34	42	47	55.2	70	80	91	145	235

# SAT dishes

## Kit system

### Digital Kits

Digital Kit

Offset Kit

Penta Kit



Item	Code	Description	Item	Code	Description
<b>P80RFK</b>	211309	<ul style="list-style-type: none"> <li>White parabolic 80cm offset dish</li> <li>Universal LNB</li> <li>Digital free to air satellite receiver</li> </ul>	<b>DIGIT-AK</b>	211108	<ul style="list-style-type: none"> <li>DIGIT-A dish</li> <li>Universal LNB</li> </ul>
<b>P80RFK-DF</b>	211310	<ul style="list-style-type: none"> <li>White parabolic 80cm offset dish</li> <li>Universal 6° monobloc LNB</li> <li>Digital free-to-air satellite receiver</li> </ul>	<b>DIGITK</b>	211107	<ul style="list-style-type: none"> <li>DIGIT dish</li> <li>Universal LNB</li> </ul>
<b>P80APK</b>	211308	<ul style="list-style-type: none"> <li>RO80AP dish</li> <li>Universal LNB</li> </ul>	<b>P85AK</b>	211220	<ul style="list-style-type: none"> <li>PENTA85-A dish</li> <li>Universal LNB</li> </ul>
			<b>P85K</b>	211219	<ul style="list-style-type: none"> <li>PENTA85 dish</li> <li>Universal LNB</li> </ul>
			<b>SAT21601</b>	211311	<ul style="list-style-type: none"> <li>White parabolic 60cm offset dish</li> <li>Universal LNB</li> </ul>

## Kit system

Kit Sat

9+13



via eutelsat  
www.doppiofeed.com



Offset Kit



Offset Kit with STB



Penta Kit



Penta Digit Kit



Packaging

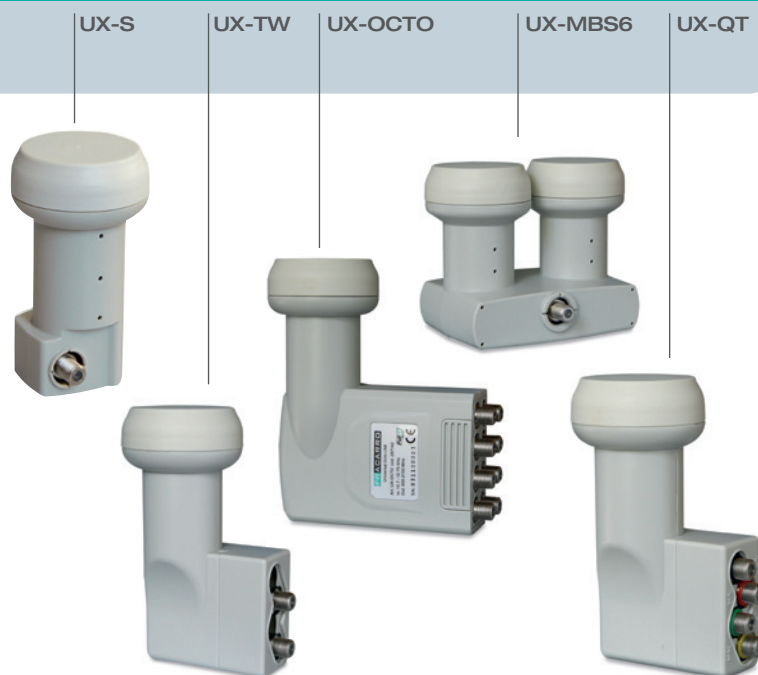
Item	Code	Description	Item	Code	Description
<b>Kit 9/13 RO80</b>	211319	<ul style="list-style-type: none"> <li>Offset 80cm dish</li> <li>4° monobloc LNB</li> </ul>	<b>Kit 9/13 80 CI</b>	211318	<ul style="list-style-type: none"> <li>Offset 80cm dish</li> <li>4° monobloc LNB</li> <li>Common Interface digital satellite receiver</li> </ul>
<b>Kit 9/13 80 FTA</b>	211317	<ul style="list-style-type: none"> <li>Offset 80cm dish</li> <li>4° monobloc LNB</li> <li>Free-to-air satellite receiver</li> </ul>	<b>Kit 9/13 DIGIT</b>	211321	<ul style="list-style-type: none"> <li>DIGIT dish</li> <li>4° monobloc LNB</li> </ul>

## LNB'S

### Universal LNB'S New

The Fracarro range of LNB'S guarantee excellent signal quality and can be used for all requirements, from a simple individual installation to the most complex DTH installation and for multipoint distribution.

Low phase noise and high reliability guarantee a maximum quality reception of all High Definition (HD) programs.



#### UNIVERSAL SINGLE LNB

Item	Code	Number of outputs	Gain dB	Power consumption mA
<b>UX-S</b>	287144	1	55	70

#### UNIVERSAL TWIN LNB

Item	Code	Number of outputs	Gain dB	Power consumption mA
<b>UX-TW</b>	287143	2	55	150

#### UNIVERSAL QUAD LNB

Item	Code	Number of outputs	Gain dB	Power consumption mA
<b>UX-QD</b>	287146	4	55	160

#### UNIVERSAL OCTO LNB

Item	Code	Number of outputs	Gain dB	Power consumption mA
<b>UX-OCTO</b>	287142	8	55	190

#### UNIVERSAL MONOBLOC LNB'S

Item	Code	Number of outputs	Gain dB	Satellite orbital distance	Power consumption mA
<b>UX-MBS6</b>	287139	1	55	6°	110
<b>UX-MBTW6</b>	287140	2	55	6°	190
<b>UX-MBQD6</b>	287141	4	55	6°	190

#### UNIVERSAL QUATTRO LNB

Item	Code	Number of outputs	Gain dB	Power consumption mA
<b>UX-QT</b>	287145	4 HV	55	170

# SAT dishes

## LNB'S

### SCR LNB'S

SCR41

This universal LNB allows up to 4 decoders to be connected simultaneously (it can receive all satellite channels independently) using a simple splitter, enhancing the performance of the existing TV installation. Exclusive technical solutions ensure all 4 outlets work constantly.

- Low phase noise
- Low consumption
- 4 SCR outputs + 1 legacy (universal) output
- High frequency stability



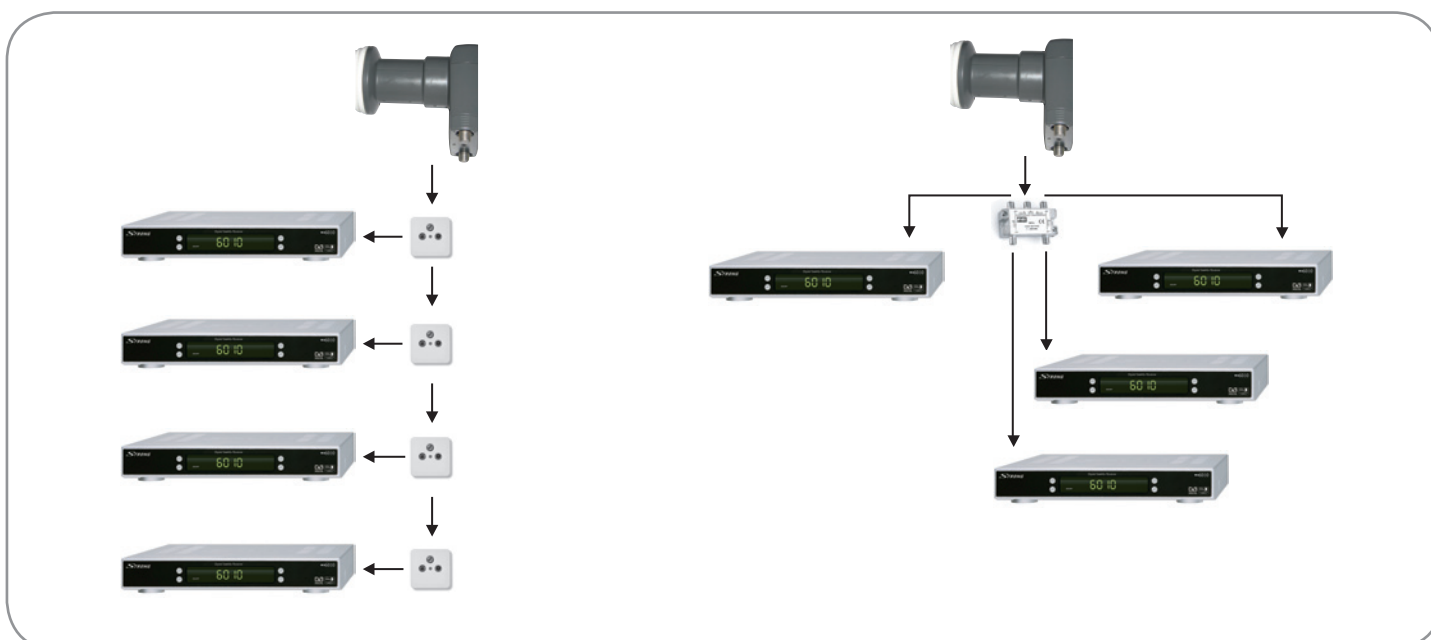
Item Code	SCR41 287109	SCR output	LEGACY output
No. of users		4	1
Input frequency	GHz	10.7 to 11.7 - 11.7 to 12.75	10.7 to 11.7 - 11.7 to 12.75
Gain	dB	60-72	50-62
Consumption	mA	300 max.	200 max.
Output frequency	MHz	1210 - 1420 - 1680 - 2040	950-2150
Band and polarity selection		DISEqC-ST command	Vertical 11.5 to 14.2V - Horizontal 15.8 to 19V Horizontal low 0KHz - Vertical low 22KHz±4KHz

## Installation example

SCR LNBS allow up to 4 satellite receivers to be connected to the same dish by using a single cable. SCR LNBS have a double output:

- “Legacy” behaves like a universal one output LNB,
- “Unicable” connects the cable to the 4 satellite receivers.

By simultaneously using the 2 outputs, it is possible to connect up to 5 satellite receivers.



## DiSEqC switches

Line switches with DiSEqC control on coaxial cable, controlled by satellite receivers with built-in DiSEqC tone generator.



Item	Code	Band MHz	Inputs No.	Outputs No.	Insertion loss dB	DiSEqC	Isolation dB	Packaging Pcs
<b>DSQ21J*</b>	289588	950-2300	2	1	4	2.0	35	1
<b>DSQ41J*</b>	289589	950-2300	4	1	4	2.0	35	1

\* Outdoor plastic box included.

## Line amplifiers

To amplify satellite signals to power a small system or preamplify satellite signals to power larger systems. Operates on 900-2150MHz with a sloped gain to compensate for the coaxial cable loss. Die-cast aluminium housing with female F connectors.



Item	Code	Band MHz	Gain dB	Noise dB	Op. voltage V	Consump. mA	Impedance Ohm	Connectors	Output dBμV	Packaging Pcs	Dimensions mm
<b>AS10</b>	289253	950-2150	9-12	<7	13-18	25@13V	75	F female	110	10	Ø 17 - l=70
<b>AMP6600</b>	AMP6600	950-2150	12-17	8	13-18	40@13V	75	F female	105	1	1x1.5x70
<b>AS20**</b>	284013	950-2150	17-20	10	13-20	80@13V	75	F female	120	1	71.5x51x21

\*\* Mast housing (product CNJS) available for external use.