

**Dish Settings for Multiple Orbitals**

	500	500+	1000+	1000.2 (WA)	1000.2 (EA)	1000.4
Orbitals	110, 119	110, 118.7, 119	110, 118.7, 119, 129	110, 119, 129	61.5, 72.7	61.5, 72.7, 77
Azimuth						
Az. clearance						
Elevation						
El. clearance						
Skew						

**Single Orbital Locations**

	61.5	72.7	77	110	118.7	119	129
Azimuth							
Elevation							
Skew							

**Min./Avg. Required Signal Strength Connectivity Options/Features**

61.5	Tran.	14	29	31	32
	Min.				
	Avg.				
72.7	Tran.	15	17	19	20
	Min.				
	Avg.				
77	Tran.	16	20	21	-
	Min.				
	Avg.				
110	Tran.	14	15	16	21
	Min.				
	Avg.				
118.7	Tran.	1	2	24	25
	Min.				
	Avg.				
119	Tran.	14	15	16	21
	Min.				
	Avg.				
129	Tran.	19	20	29	30
	Min.				
	Avg.				

	Receiver Model Family	Whole-Home HD DVR			HD Solo Slingloaded DVR	HD Duo DVR			HD Solo DVR	HD Duo			HD Solo			Duo DVR		Solo DVR	Duo	Solo
	Receiver Model	Hopper with Sling	Hopper	Joey	VIP 922	VIP 722	VIP 722k	VIP 622	VIP 612	VIP 222	VIP 222k	VIP 211	VIP 211k	VIP 211z	625	522	512	322	311	
Devices	Sling Adapter		x			x	x													
	Sling Internal	x			x															
	External Hard Drive	x	x		x	x	x	x	x			x	x	x						
	Tailgater™											x	x	x						
	HIC	x	x	x																
	Wireless Adapter	Internal Wi-Fi	x			x	x	x	x		x									
	SlingLink				x	x	x	x	x	x	x	x	x							
	DishCOMM Modem				x	x	x	x	x	x	x	x	x							
	Phonex	x	x		x	x	x	x	x	x	x	x	x		x	x	x	x	x	
	USB OTA Adapter	x	x																	
Features	Connectivity to Broadband	x	x		x	x	x	x	x	x	x	x	x							
	DISH Anywhere	x	x		x	x	x													
	DISH Explorer	x	x																	
	Hopper Transfers	x																		
	PIP	x	x		x	x	x	x		x	x				x	x	x			
	PTAT	x	x	x																
	1080p Capability	x	x	x	x	x	x	x	x											
	3D VOD	x	x	x																
	Dish On Demand	x	x	x	x	x	x	x	x						x	x	x			
	Blockbuster®	x	x	x	x	x	x	x	x											
Home Media (DLNA)	x	x																		
Media Apps	x	x	x																	
Hard Drive Size		2 TB	2 TB	Shared HD w/ Hopper	1 TB	500 GB			320 GB					250 GB		160 GB				

## Remote Programming

<b>Program to TV: Power Scan</b> Recommended way to program to a TV	[TV Mode] hold - [power] - [up arrow] - TV turns off - [#]
<b>Program to TV: Direct Program</b> To program to a TV using the device code	Look up code - [TV Mode] hold - [code ex. 500] - [#]
<b>Program to AUX</b> To program to another TV, VCR, DVD, tuner, or amplifier	[AUX Mode] hold - [0:TV, 1:VCR/DVD, 2:Tuner/Amp] - [code ex. 500] - [#]
<b>Limited Mode</b> To limit certain functions on the remote to help our customers (must be done on all remotes)	[TV Mode] hold - [page up] - [#]
<b>SAT Auto-Tune: Program</b> To change TV2 to the correct channel when the SAT Mode button is pressed	[TV Mode] hold - [*] - [TV2 channel ex. 60] - [#]
<b>SAT Auto-Tune: Enable</b>	[Sat Mode] hold - [*] - [vol up] - [#]
<b>SAT Auto-Tune: Disable</b>	[TV Mode] hold - [*] - [vol down] - [#]
<b>Remote Address</b>	System Info Screen: [Sat Mode] hold - [enter digits ex. 1-15] - [#] - [record]
<b>Read Back Codes</b>	[Mode button ex. TV Mode] hold - [#] - [#] - count flashes (0 = short flash)
<b>Auxiliary Volume Override</b> When you want the volume buttons to control a tuner or amplifier, rather than the TV	[#] - [vol up] - [0] - [#]
<b>Learning Remote: Hybrid Mode</b> When you can program the remote, however certain commands were not transferred during programming	Program the device - [Mode button ex. TV Mode] hold - [recall] - [record] hold - [button you want to "teach" on DISH remote] - [button that will be "taught" on original remote] hold - mode light will blink - If the mode light blinks 3 times or stays lit, it did not work - Press any mode button to end the sequence
<b>Learning Remote: Standard Mode</b> When the device is unable to be programmed	[Mode button ex. TV Mode] hold - [record] - [button you want to "teach" on DISH remote] - [button that will be "taught" on original remote] hold - repeat - Press any mode button to end the sequence

## Common Remote Codes

<b>LG</b>	627, 520
<b>Magnavox</b>	566, 560
<b>Mitsubishi</b>	799, 504
<b>Panasonic</b>	765, 700
<b>Phillips</b>	566, 563
<b>Samsung</b>	738, 680
<b>Sanyo</b>	590, 90
<b>Sharp</b>	628, 605
<b>Sony</b>	500, 781
<b>Vizio</b>	505, 627
<b>Zenith</b>	501, 775

## dB Loss

Component	dB Loss
Cable	1dB/10 ft.
Connector	0.5 dB/connector
Barrel	0.5 dB
Diplexer	1.5 dB
Splitter (2-way)	4.5 dB
Splitter (3-way)	5 dB
Triplexer	2.5 dB
Separator	1.5 dB
Ground Block	0.5 dB

## Contact Information

	Phone Number	Nextel	E-mail Address
Office			
Manager			
Dish			

## Local Channels

	Satellite	Transponder
HD		
HD		
SD		
SD		

## Switches

	WA	EA
Port 1	119	72.7
Port 2	110	61.5
Port 3	129 / 61.5	77
Port 4	118.7	—