

Glorystar Install Guide

HDVR1200
3.19.2021



Glorystar requires that you carefully read through these pages before beginning the installation.

Please call Glorystar with any questions regarding your Glorystar equipment or installation

This guide is intended for an individual experienced in performing the various tasks described, including:

- Determining an antenna location with a view of the satellites positions.
- Climbing a ladder and working on your roof.
- Observing safe working practices around heights and electrical hazards.
- Determining if water pipes, gas lines or wires are hidden before drilling.
- Using a power drill to drill holes into your house.
- Routing cable through walls, crawl spaces or attics.
- Safely lifting and securing the 25 lb. antenna assembly.
- Grounding the system as recommended in the National Electric Code.

If you don't feel completely comfortable with these tasks, you may consider contracting the installation with a local satellite technician.

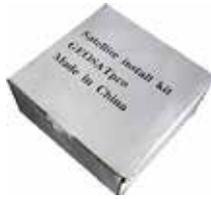
Web site <http://www.FTAINSTALL.com> provides a free referral service for local installers. Please visit today!



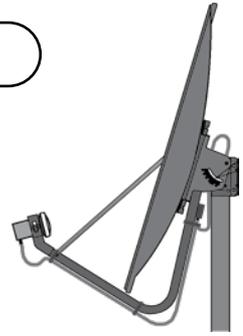
Glorystar System Parts List



Satellite Receiver



Installation Kit



90cm Dish / LNBF

Tools Required



Socket Set



Drill and Bits



Phillips Screwdriver



Hammer



Tape Measure

Site Survey

If you feel comfortable with drilling holes in the walls and/or roof of your home, climbing ladders, attaching wires to the ground according to NEC and local codes and following step-by-step instructions, you might consider installing your own system.

The installation does require precise tuning and a great deal of patience to correctly install.

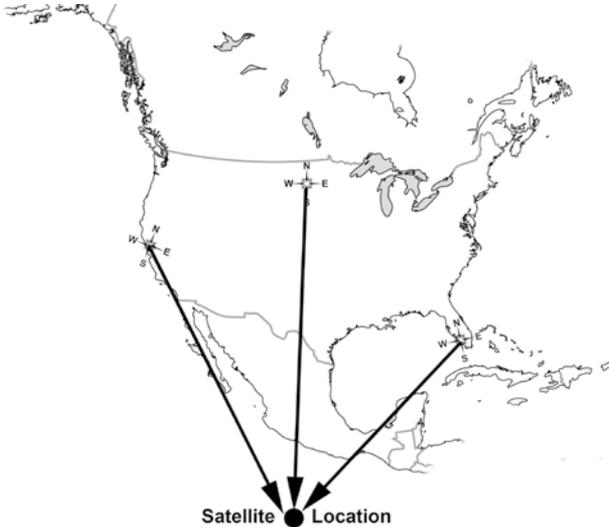
Have you recently installed a light switch, ceiling fan, basketball hoop and programmed a VCR? If not, this project might not be a good time to hone your mechanical and electrical skills!



To simply a first-time install, do not use pre-wire or previously used coax cables and unknown switches. Do not attempt to use splitters for simultaneous viewing on multiple receivers. Splitters typically do not support multiple satellite receivers.

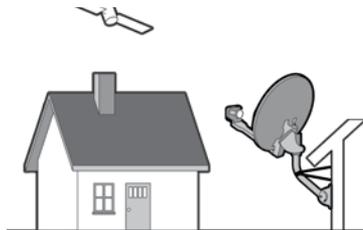
Where Is The Satellite?

Before assembling any equipment it is important to verify that the installation location has a suitable area to safely and securely mount the satellite dish and have a clear line of site to receive the satellite signal. The satellite dish must be pointed directly at the satellite, with NO obstructions between the two. This means NO trees and NO buildings. Satellite signals will not pass through leaves, limbs, so consider future tree growth, house remodeling or additions and new construction in your area. The dish cannot be installed indoors!



In North America, the satellite dish will be pointed towards the South, Southeast or Southwest. Satellites are located directly over the equator and are approximately 23,000 miles away! Before you start, you will need to determine if it possible to “see” the satellite from your location.

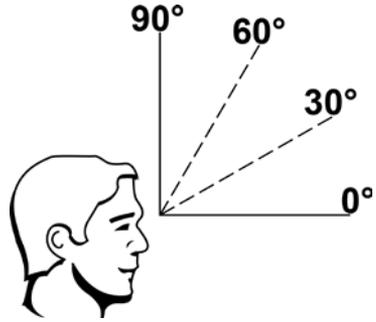
Satellite Compass (Azimuth) Reading: _____



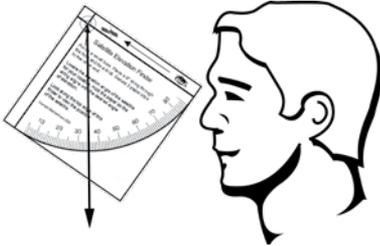
Please note: 97 Degrees West is not the compass reading! 97W is the assigned orbital slot which corresponds with the earth’s Longitude. The Galaxy 19 satellite is just east of DirecTV’s main satellite at 101 West

How High Up in the Sky are the Satellites?

Depending on where you live, most North American satellites will be at an elevation angle between 30 and 60 degrees in North America. Northern Canada and Hawaiian elevations can be as low as 10 degrees, but in Central American and the Caribbean, the dishes are often aimed almost straight up between 70 - 90 degrees!



Satellite Dish Elevation Angle: _____



Elevation Angle Finder

Sight along the top edge of the elevation angle finder with the weighted string registering the correct elevation angle for your target satellite. Is the line of sight clear with no branches, limbs or tall buildings?

If you are mounting your dish on a motor, consult with the motor installation manual for recommendations on dish placement and mounting.

YES



MAYBE



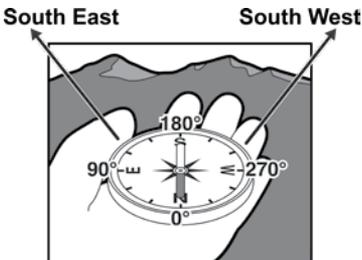
NO



Be sure to perform a site survey to determine the best location to see as many satellites as possible. The satellites are in an arc that begins at the eastern horizon reaching to the highest point directly south then extending to the western horizon.

Where to Mount the Dish?

Use the aiming coordinates included with this system or found at <http://www.GeoSatFinder.com> along with a compass and the Site Check Angle Finder found on the last page of this manual to locate a suitable area for mounting the dish.

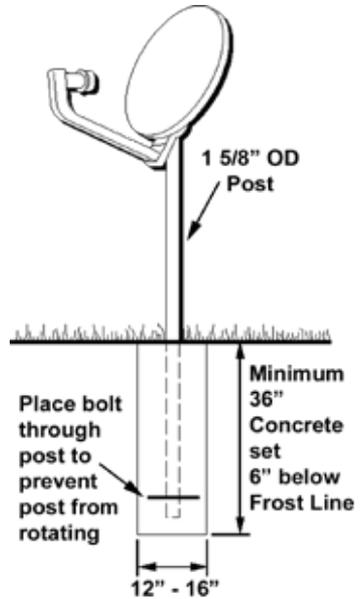


Compass

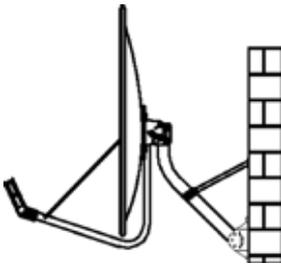
While facing south, hold the compass level in the palm of your hand. With the red needle pointed exactly at North, reference the compass reading for your target satellite. Are there any obvious obstructions? If the line of sight appears clear, continue to the check the elevation angle.

Dish Mounting Options

We recommend ground mounting a fixed satellite dish on a 1 5/8" heavy wall galvanized post set in cement. Attach a bolt or muffler clamp to the bottom of the post to prevent the post from twisting in the hardened cement. These items are readily available at any hardware store. Filling the post with a wet cement mixture will provide greater rigidity. The post must be perfectly plumb, level on all sides. Posts standing higher than 7 feet should be stabilized to prevent movement during high winds. The post should be installed in advance of the install as the cement can take 24 - 48 hours to set. **DO NOT** install the dish on a wooden 4" x 4" post or on a tree. The grain of the wood will twist during dry and rainy seasons causing the dish to swing off of the satellite causing reduced or loss of signal. Take proper precautions to protect the dish from being bumped during yard care or damaged by children at play.



Ground Post Mount



Wall Mount



Roof Mount

The GEOSATpro 90cm dish assembly includes a heavy duty universal wall / roof post mount. This mount can be attached at almost any angle and provides a stable secure mount even in high wind regions if properly attached. The tripod legs **MUST** be installed. The universal post will fail under moderate wind load if the tripod legs have not been installed to support the larger wind load area of a 36" dish. The dish and mount are designed to remain operational in winds up to 80+ mph and survive wind gusts over 110+ mph.

Dish Assembly

Before assembling a metal dish it is **Extremely Important** to verify that the reflector was not warped or bent during shipping. Failure to check for dish warping or damage could lead to many frustrating hours of trying to locate the satellite. This simple test may be the most important step in a successful installation!



Find a perfectly flat surface such as a garage cement floor and lay the reflector face down. Are the edges of the reflector laying perfectly flat? If any area of the edge is raised by even an 1/8th of an inch reception of the satellite signal will be affected!

If you cannot find a perfectly flat surface or if the dish is already installed, perform the string test.

Tape a string horizontally from edge to edge across the center of the dish. Tape a second string vertically from top to bottom on the edges of the dish.

If the strings do not lightly touch in the center, the dish is warped and it must be corrected before aiming the dish.



Fixing a Warped Reflector

To correct a warped reflector, hold the dish like a steering wheel and quickly thrust the reflector away from your body like the motion of passing a basketball. This quick action will cause the reflector to slightly flex and spring back into the factory pressed shape.

Check for correction with the string test. It may be necessary to repeat the flexing process several times until the reflector edges are uniformly flat.

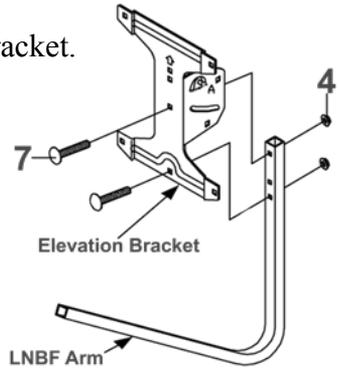
GEOSATpro 90cm Dish Hardware

Item	Quantity		Description	Size
1	6		Carriage Bolt	1/4" x 1/2"
2	2		Phillips Screw	M4 - 16m
3	2		Hex Nut	M4
4	13		Hex Nut	1/4"
5	1		Carriage Bolt	1/4" x 1 1/4"
6	1		Structural Bolt	1/4" x 2 1/2"
7	2		Elevator Bolt	1/4" x 1 1/4"
8	2		Washer	1/4"
9	2		Carriage Bolt	1/4" x 3/4"
10	2		Phillips Bolt	1/4" x 1/2"
11	2		Hex Nut	1/4"
12	1		Phillips Bolt	1/4" x 1 1/4"
A	4		Hex Flange Bolt	1/4" x 1/2"
B	1		Hex Nut	1/4"
C	1		Hex Tap Bolt	1/4" x 3 1/2"
D	1		Fastener Insert	

Please contact your reseller if any of these parts are missing or damaged. Most replacement hardware items can be purchased at a local hardware supply store.

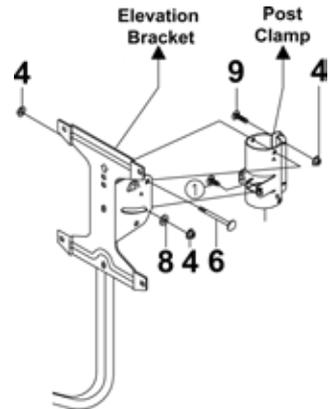
Important Note:
An assembled dish will not be accepted for refund.

Attach the LNBF Arm to the Elevation Bracket.



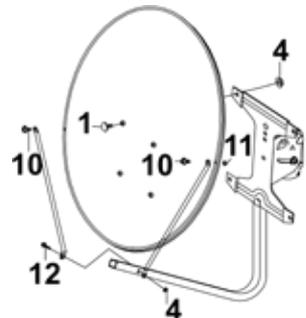
Assemble the Elevation Bracket and Post Clamp. The Post Clamp has two holes drilled. One hole is stamped with an A and the other with a B.

Assemble the Elevation Bracket to the Post Clamp inserting Structural Bolt A (part #6) through the hole stamped A if the Dish Elevation Angle is between 10 - 60 degrees. Assemble using hole stamped B if the elevation angle is to be between 50 - 90 degrees. Most installations in the US and Canada will use Elevation Scale A type assembly. Installations in Mexico will usually use Elevation Scale B assembly.

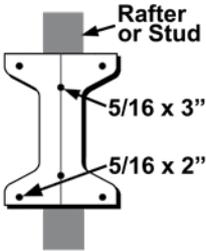


The dish has been correctly assembled for Measuring the Dish Elevation Angle using Scale A (10 - 60 degrees) if a letter B is visible stamped on the bottom of the Post Clamp.

After verifying the Reflector is not warped, mount the Reflector to the Elevation Bracket and install the two LNBF Arm Side Supports. The Side Arm Supports will perfectly center and support the LNBFs for optimal reception.

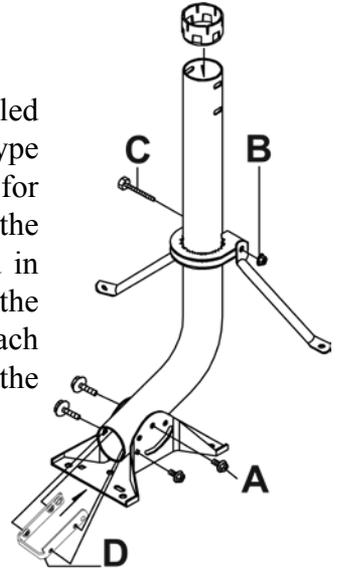


Universal Post Mount Assembly



Mount the Universal Post Mount Foot Plate to a wall stud or roof rafter using two 5/16th x 3" lag bolts. Additional 5/16th x 2" lag bolts on the outer edges will increase stability. To prevent water leakage, use the included silicone sealant or other waterproofing product on all wall or roof penetrations.

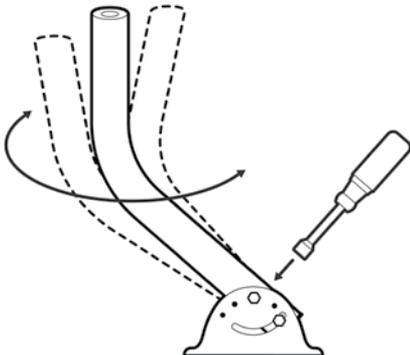
The Universal Post Mount can be assembled for flat and pitched roof or wall type installations. The post has two slots for attaching to the Foot Plate on both ends of the tube. This allows the dish to be mounted in one of two methods. Either with the "J" at the bottom of the post providing a higher reach (as pictured), or the "J" is positioned at the top of the post for greater outward reach.



Level and Secure Post



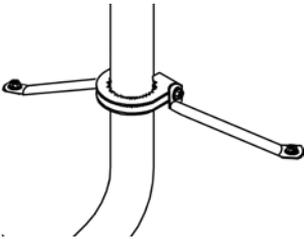
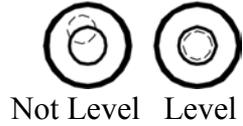
Insert the Bubble Spirit Level into the top of the post. Be sure that the level is seated level and flush with the top edge of the post.



The unique slots in the post tube allows the post to be leveled or made plumb in almost any installation position.

If the post is not exactly plumb, the elevation scale will not be accurate and it will be very difficult to locate the satellite and properly tune the dish for reliable reception.

Center the bubble in the level then tighten the 4 flange bolts to secure the post. It is very important to make sure that the post is perfectly plumb (level on all sides).



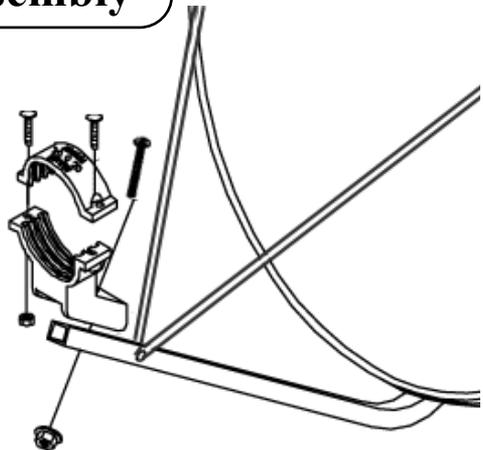
The **Most Critical** step to providing a stable mounting platform for the dish is the installation of the Tripod Support Legs. If the lag bolts cannot be secured directly into a stud or rafter, the legs should be secured into plywood sheeting with either a backing a toggle bolt or to a 2 x 4" that is lag bolted between the rafters or studs.

The legs are required to support the wind load on the universal post mount. Failure to install the tripod support legs will result in collapse of the post even during moderate winds. The post is not designed to solely support the dish without the tripod support legs. If you hire a local installer, be sure that the tripod support legs are installed.

Place the assembled dish onto the top of the post with the Structural Bolt #6 sitting on top of the post. Loosely secure the mast clamp hardware until the dish only moves when applying light pressure to the rotate the reflector.

LNBF Clamp Assembly

Assemble the single LNBF Clamp and attach to the LNBF arm.



LNBF Installation

The LNBF catches the satellite signals reflected from the dish and send the signal down the coax to the receiver. It is important to properly install the LNBF. Insert the LNBF into the clamp with the cap facing the reflector then lightly tighten the two screws to secure the LNBF.

Set the LNBF Rotation (Skew Angle) to the setting specified in the aiming instructions provided with your system. The LNBF rotates in the circular clamp until the centering line aligns with the LNBF Rotation angle. Failure to set the correct LNBF Rotation will result in not finding the satellite!



LNBF Rotation: _____

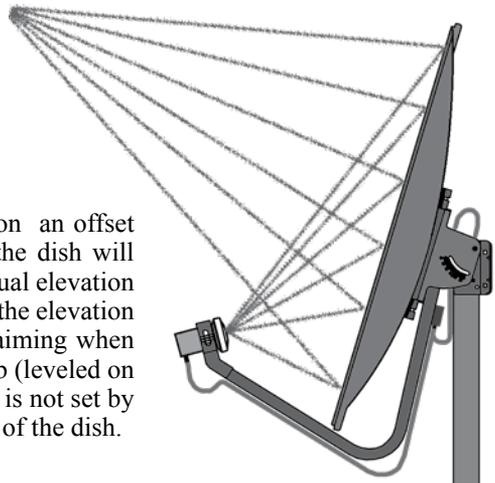


When standing in front of the dish and looking at the back of the LNBF and towards the reflector, rotate the LNBF counter clockwise (left) for a positive (+) LNBF Rotation (Skew) setting and Clockwise (right) for a negative (-) LNBF Rotation (Skew) setting.

Start with the LNBF slid back as far away from the reflector as possible. Tighten the screws to secure the LNBF from rotating. No need to overtighten and break the clamp.

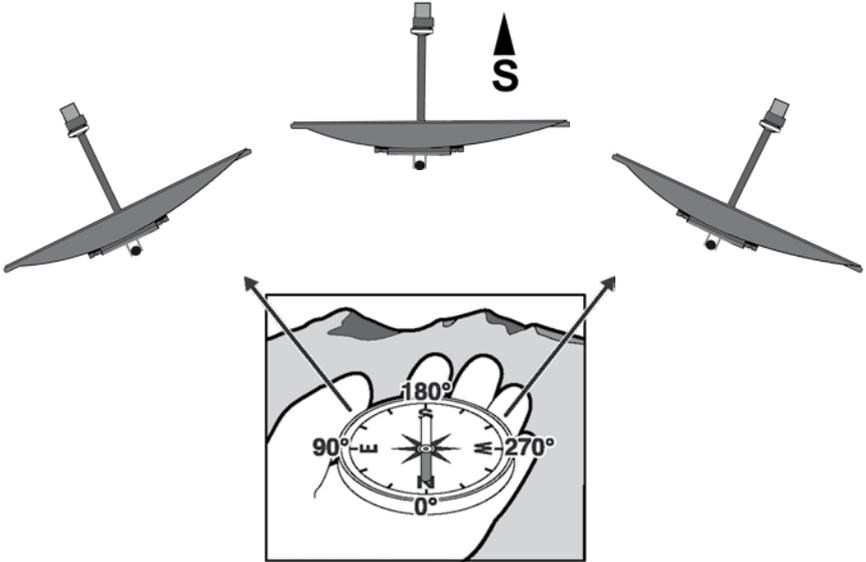
Dish Aiming

When setting the elevation angle on an offset dish, it is important to note that the dish will appear to be aimed lower than the actual elevation angle to the satellite. The scale on the elevation bracket is calibrated for accurate aiming when the post is installed perfectly plumb (leveled on all sides). The dish elevation angle is not set by the angle of the LNBF arm or face of the dish.



In North America, satellites are always located South of your location. To correctly aim the dish you must first accurately determine the exact compass reading angle (azimuth). Metals, electricity and other magnetic disturbances can cause the compass to point incorrectly.

Compass readings should be made at least 10 feet in front of or behind the metal satellite dish and away from any large metal object such as metal buildings, air conditioners, vehicles, utility and power lines or electrical panels. Check compass reading several times to reduce install time and the need to hunt the entire southern sky for the satellite signal.



Identify a reference point on the horizon like a tree, utility pole or other landmark that lines up with the compass reading. Installers often find it easier to align the dish if they can reference an object that has been identified with the compass reading. If you cannot locate a visual reference, stretch a 10 - 20 foot rope out in front of the dish in the direction of the compass reading pointing towards the satellite.

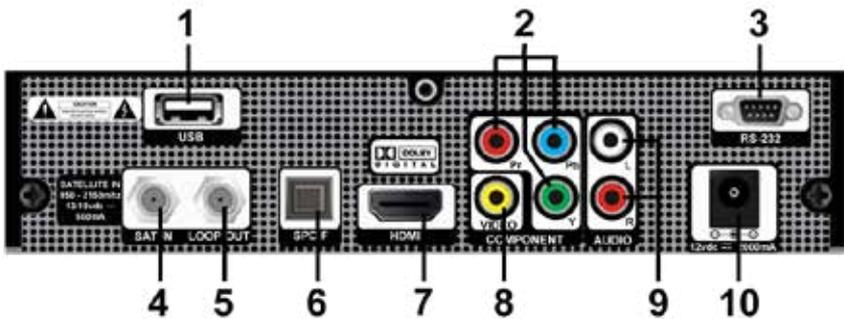
Move directly behind the dish and align the dish so that the LNBF arm is aimed directly at the reference landmark or in line with the rope. Semi-tighten the post clamp nuts, but allow the dish to be just loose enough to be rotated left or right by applying light pressure.

HDVR1200 Satellite Receiver

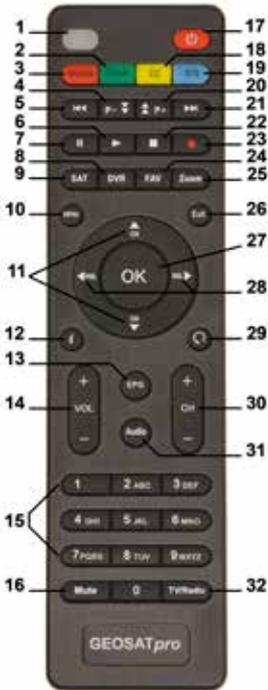


The Front panel of the HDVR1200 satellite receiver has many of the important controls needed for operation of your Glorystar system. It is important to install the receiver so the front display can be visible for proper remote control operation and to have easy access to the control keys in case the remote control is misplaced.

Rear Panel



1. Connect USB 2.0 Devices for DVR / Media / Upgrades / WiFi (5v/500ma)
2. Connect Analog Component Video to TV or other video equipment
3. RS232 Null Modem Serial Port for Upgrade and Diagnostic
4. Connect to the Satellite Dish Coax Cable
5. Loop Satellite Signal Out (not recommended for 2nd receiver connection)
6. Connect Optical Digital Audio to Digital Audio Amplifier
7. Connect Digital HDMI Video and Audio to TV or other video equipment
8. Connect Analog Composite Video to TV or other video equipment
9. Connect Analog Audio Left/Right (decoded Dolby) to TV or other equipment
10. Connects to DC Power Supply (12vdc / 1500ma / positive tip)



1. LED display lights to verify remote operation
2. Enter the Manual Timer Setting menu
3. Display Media Player for Videos / Photos / Music
4. Page Down in a List and DVR Scan Rewind
5. Skip Rewind
6. Play DVR / Media
7. Freeze Video or Pause DVR / Media
8. Display DVR Recordings List
9. Display Satellite List
10. Display the Main Menu Screens
11. Change Channel or Menu Navigation Up / Down
12. Display Channel Banner, 2x for Program EPG, 3x for Service Information
13. Display Electronic Program Guide (if provided)
14. Increase / Decrease Volume
15. Numeric / Alpha Keys for direct Channel Change and Menu Setting
16. Mute or Enable Muted Audio
17. Select Standby or Operation Mode
18. Select Closed Caption ON / OFF
19. Display a Full Screen Signal Meter
20. Page Up in a List and DVR Scan Forward
21. Skip Forward
22. Stop DVR Play or Record / Stop Media Playback
23. Start DVR Manual Record
24. Select the Favorite List Mode
25. Magnify a Portion of the Screen
26. Exit Screens or Functions
27. Display the Channel List or Accept a Menu Item
28. Increase / Decrease Volume or Menu Navigation Left / Right
29. Return to Previous Channel
30. Change Channel Up / Down
31. Select Alternative Language / Audio Mode / Sound Track
32. Select to View TV or Listen to Radio Channels

Remote Shortcuts

- Turn the Receiver ON / OFF - **17**
- Change Channels - **11** or **30**
- Adjust Volume - **14** or **28**
- Mute Audio - **16**
- View TV / Listen to Radio - **32**
- View Channel List - **27**
- View Channel Banner - **12**
- View Signal Meter - **19**
- Electronic Program Guide - **13**
(if available from the broadcaster)

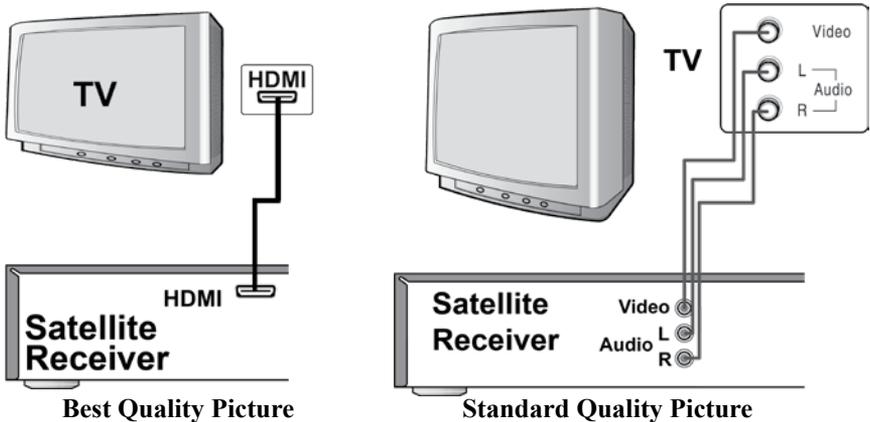
Connect Receiver to a TV



CAUTION: DO NOT ATTEMPT TO OPERATE ELECTRONIC DEVICES IN AN UNSAFE LOCATION OR IN VIOLATION OF SAFEGUARDS PROVIDED IN THIS MANUAL OR ANY OTHER EQUIPMENT MANUAL PROVIDED WITH THIS SATELLITE SYSTEM.

Remove the satellite receiver and remote control from the packaging. Inspect the unit before operation. If any equipment is damaged or if you have any questions, please immediately contact your reseller. Install the two included AAA batteries into the remote control battery compartment.

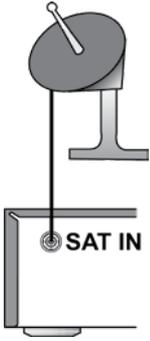
The **BEST and Easiest** method to aim the satellite dish is to temporarily place the satellite receiver and a small TV near the satellite dish. This method allows the installer to see the signal changes that occur with small dish movements. It is extremely difficult to install the satellite system if the TV is inside the home and out of the view of the installer. Attempting to communicate the signal readings with a second person viewing the TV will complicate the aiming process!



To view high definition video in HD and listen to digital audio, connect a HDMI cable between the receiver and TV. No other cables are needed with the HDMI cable.

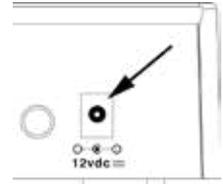
A basic connection for standard definition SD TV viewing is to connect the to the TV with the included RCA cable. Connect the yellow Video port and the white/red Audio RCA jacks from the receiver to the yellow/white/red RCA plugs on the TV's AV IN jacks.

Plug the television power plug into a surge protected AC power strip. Turn the TV power ON and set the TV to the AV input. The TV is now ready to view the satellite receiver.

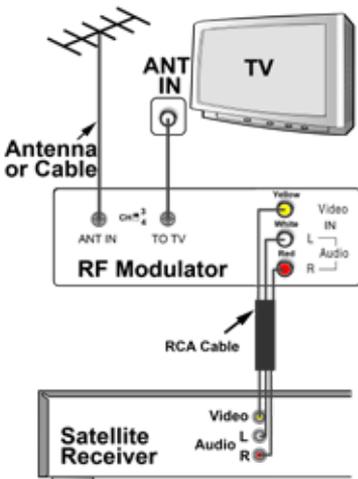


Connect a short RG6 coax cable from the LNBF on the satellite dish to the SAT IN port on the rear panel of the HDVR1200.

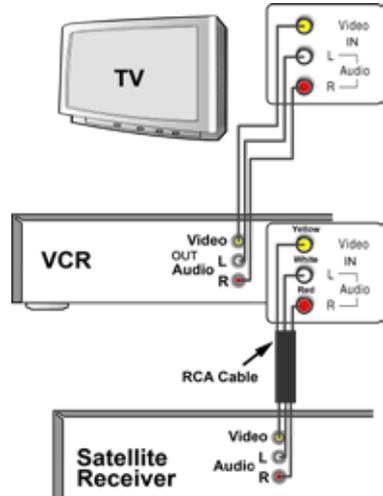
Plug the satellite receiver's power supply into the 12VDC port on the rear panel of the HDVR1200. Plug the HDVR1200 power supply AC plug into the surge protected power strip.



Standard Definition Connections (opt.)



Older TV: Only Antenna Jack



VCR - Standard Definition

Consult the owners manual provided with TV, VCR or other device that will be connected to the GEOSATpro satellite receiver. Questions regarding the connection to any other equipment should be directed to the manufacturer of that device.

Receiver Activation and Set-up

1. When the receiver is first powered ON it will display “Welcome! Please select Install Type”. Press the **OK** key on the remote control to install for the Glorystar Christian Satellite Service.



2. Press the remote control **Left or Right Navigation** key to select the connection cable type used to connect the satellite receiver to the TV. If a HDMI cable is connected, select HDMI then press **OK** key and continue to step # 3. If a RCA cable is used, select RCA then press **OK** key and skip to step # 5

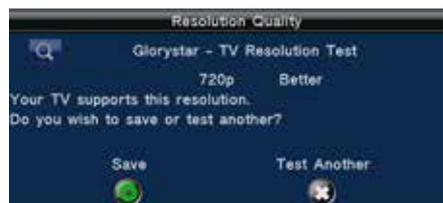


3. TV Resolution - To display the best picture quality, the HDMI output needs to be set to the highest quality that the TV supports. Press **OK** key to select the best resolution for your TV.

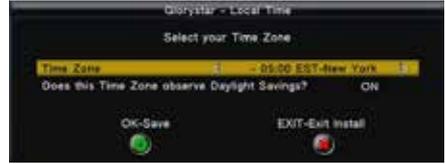


4. 480i is the lowest resolution and will provide poor picture quality. 1080p will provide the highest picture quality. If you do not know the highest resolution that the TV supports, highlight the highest resolution of 1080p and press **OK** key. If the TV supports the resolution, you will see a display “Your TV supports this Resolution. Do you wish to Save or Test another?”. If you see this display, press the OK key to save.

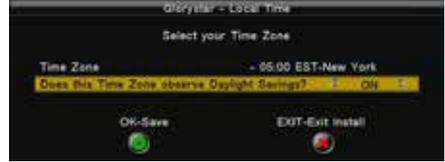
If the TV does not support the selected resolution, nothing will display on the TV screen. After 10 seconds, the receiver will return to the Resolution Quality menu screen. Repeat steps #3 and #4 and select a lower resolution quality setting until the TV displays the selected resolution and it is saved.



5. Glorystar - Local Time is set by selecting your Time Zone. With Time Zone highlighted, press the **Left or Right Navigation** key to display the install location time zone. For Example: -5:00 EST - New York is the correct time zone selection for the east coast of the US.



6. Press the **Down Navigation** key to highlight “Does this Time Zone observe Daylight Savings?” Press the **Right or Left Navigation** key to select OFF if your location does not change between Standard and Daylight Savings or ON if your location changes between Standard and Daylight Savings.



7. Press **OK** key to continue. Please take a few minutes to read this Glorystar Install Guide. When you are ready to continue the install, press the **OK** key to continue.

Signal Strength and Quality Meter

The **Signal Strength** and the **Signal Quality** meters provide important information about the satellite system. Here are some examples of different meter reading and what they tell you about the wiring connections, dish aiming and LNBF rotation. It is very important to optimize the Signal Quality readings to provide the best performance during adverse weather conditions. The higher the Signal Quality reading, the better the reception. If the Signal Quality reading is too low, the picture will break up into little squares and the sound may become garbled, out of sync, choppy or disappear completely!



A **Signal Strength** reading of 0-5% indicates that the receiver is not properly connected to a working LNBF. The low **Signal Quality** reading at or below 30% indicates that the dish is not properly aimed or the LNBF is not properly rotated to receive the satellite signal.



A **Signal Strength** reading of 50-80% indicates that the receiver is connected to a working LNBF. No **Signal Quality** reading indicates that the dish is not aimed.



The Red color bar displaying a low **Signal Quality** reading at or below 50% indicates that the dish might be aimed at the correct satellite, but needs more adjustment.



The Yellow color bar displaying a **Signal Quality** reading at or below 60% and video of the channel playing behind the meters indicates that the dish is aimed at the correct satellite, but needs more adjustment or the LNBF is not properly rotated to optimally receive the satellite signal.

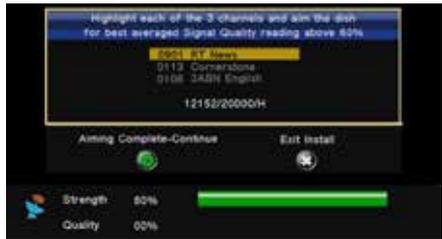


The Green color **Signal Quality** bar with a reading at or above 60% and video of the channel playing behind the meters indicates that the dish is properly aimed.

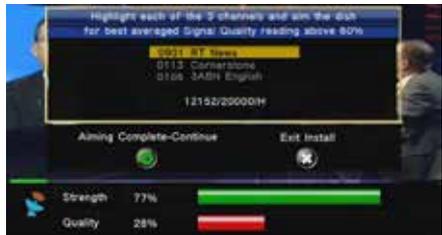
Locate and Peak Satellite Signal

8. Aim the dish towards the distant landmark which corresponds with the compass reading for the satellite. Observe the Signal Quality reading on Channel 901, RT News and **very slowly pan the dish**. While watching the Signal Quality reading, **SLOWLY** pan the dish towards the east approximately 10 - 15 degrees away from the starting compass reading provided for the target satellite. If the Signal Quality reading does not increase, **SLOWLY** pan the dish back to the starting point then **SLOWLY** pan the dish to the west approximately 10 - 15 degrees.

9. If no Signal Quality reading or a low Signal Quality reading is displayed, **increase** or **decrease** the dish elevation by one degree increments and repeat the slow panning of the dish.



Not Aimed at the Satellite



Starting to Receive the Satellite

10. Once the correct satellite is detected, the **Signal Quality** reading will appear and increase from a low quality Red color meter display to a stronger signal indicated with Yellow and a Green meter display when the Signal Quality reading is good.

11. Continue to optimize the dish aiming by making very **small changes** to the **elevation** (up/down) and **azimuth** (left/right) to peak the Signal Quality reading. Failure to optimize and maximize the Signal Quality reading may result in the loss of programming during inclement weather.

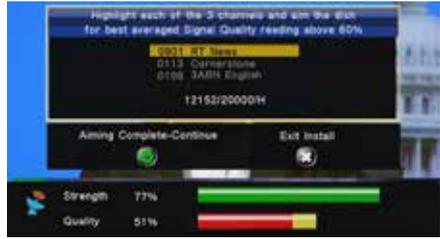
12. When the dish is correctly aimed, the RT News Channel programming will be displayed and the Signal Quality reading will read 60% or higher.

13. Press the **CH/DOWN** arrow key on the remote control to select **Channel #113, Cornerstone**.

14. Verify the Signal Quality reading is at least 60% and displaying Cornerstone programming. If the Signal Quality is less than 60%, make very small adjustments to fine tune the dish elevation and azimuth (side to side).

15. Press the **CH/DOWN** arrow key to select **Channel #106 , 3ABN English**.

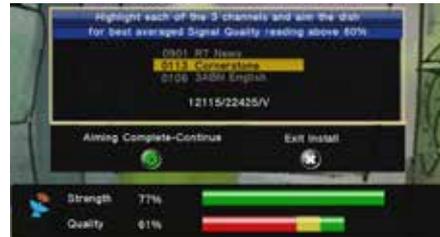
16. Verify the **Signal Quality** reading is at least **50%** and displaying a picture. If the Signal Quality is less than 60%, make very small adjustments to fine tune the dish.



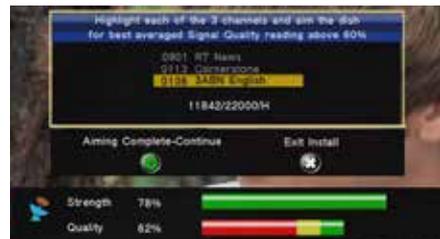
Almost There! Adjust a Little More...



Great Quality Reading above 60%



Quality Reading above 60%



The Signal Level (S) is important when determining if the receiver is connected to a working LNB. A Signal Level reading of 50% or higher indicates a connection to a working LNB, but does not indicate finding the correct satellite.

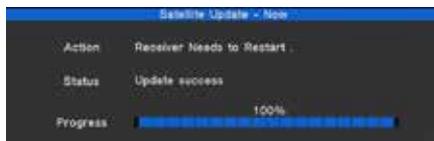
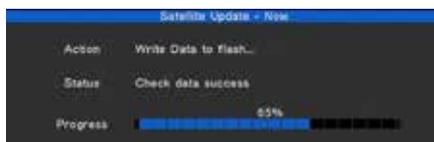
17. Slight clockwise or counter clockwise adjustments to the **LNBF rotation** or **sliding the LNBF** towards the reflector or away from the reflector may also provide increased Signal Quality readings.

18. Change between **Channels 901, 113 and 106** and balance for **Peak Signal Quality** readings on these three channels. The Glorystar system will have the best performance when the Signal Quality Levels are peaked and balanced on all channels and weakest channel has a Signal Quality reading at or above 60%. If you must to exit the installation process before the three channels are optimized or if the power is removed, the receiver will return to step #1 in the set-up screens.

19. When the dish aiming is complete, tighten all dish hardware to permanently hold the dish in this position.

20. Select “**Aiming Complete - Continue**” and press **OK** key to automatically update the satellite receiver with the latest Glorystar channels. This process may take up to 10 minutes and the update progress will be displayed. Please be patient and wait for the receiver to automatically power down and restart with a complete channel list installed.

If the update progress does not progress in 15 minutes, remove the power cord for 10 seconds then reinsert to return to step #1 in the set-up screens.



If the dish is not properly aimed and the satellite signal is not strong enough, the receiver cannot be updated. The receiver will immediately exit the update and display “No Signal” or one of the three pre programmed channels. Remove the power cord for 10 seconds then reinsert to return the receiver to return to step #1 in the set-up screens.

Congratulations! The Satellite dish is now aimed and the receiver is updated with the latest firmware and Glorystar Channel List. The Glorystar channel list will be automatically updated each week.

You may set you favorite channels lists and scan in additional free channels on the satellite. These settings and channels will not be deleted during the weekly Glorystar channel updates. This receiver also records your favorite programs. Simply attach an USB hard drive to the USB port on the back of the receiver and press record.

Channel Banner

Press the **i** (information) remote control key to display the **Channel Banner**. The banner provides information about the TV or Radio channel. This banner will automatically disappear after the selected display time in the OSD menu screen.

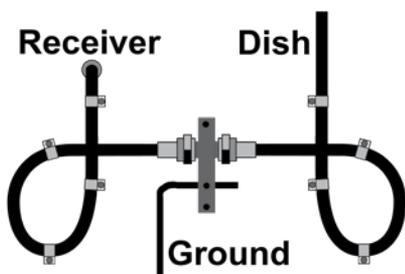
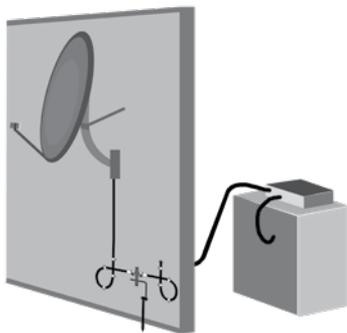
Press the **i** key two times to display detailed program information if the broadcaster provides the EPG (Electronic Program Guide) information. Advanced users may press the **i** key three times to display detailed technical information about the channel.



1. Channel Number - Glorystar Channels are organized by language and type:
 - 100 English TV
 - 200 Spanish TV
 - 300 Russian
 - 400 Arabic / Aramaic
 - 500 Multi-Language
 - 900 News & Entertainment
 - 1000 English Radio
 - 1100 Spanish Radio
 - 1500 Multi-Language Radio
2. Channel Name
3. Standard or High Definition Television Channel
4. Closed Captioning for Hearing Impaired Available
5. Television or Radio Channel
6. Free or Scrambled Channel
7. Current Date and Time set automatically by satellite
8. Electronic Program Guide Start Stop Time (*if provided by broadcaster*)
9. Program Name (*if provided by broadcaster*)
10. Signal Strength and Signal Quality Readings (*Quality reading must be above 60% for reliable reception*)

Completing the Install and Grounding

Carefully route the coax cable from the dish to the ground block then to the satellite receiver. Secure all cables using appropriate cable clips and nylon zip ties. Avoid using wire staples as they can dimple or penetrate the cable and can cause loss of signal! Form drip loops and cable loops as needed to prevent water from running down the cables and entering cable connection fittings or into wall penetrations. Remember to seal all exterior wall and/or roof holes with a quality sealant or silicone caulking.

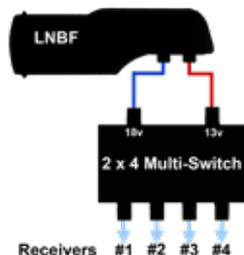
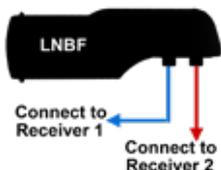


Install the grounding block and wire while observing all NEC, National Electrical Code and local codes. Connect the ground wire to the structure ground. If you are unsure of how to properly ground your satellite system, please consult with a local professional. Copies of the NEC are available at your local library or online.

Important Notice: GEOSATpro recommends that you **DO NOT** use existing coaxial cabling that has been pre-wired or previously used in your home. Often these cables are low quality RG-59, not rated for satellite applications or have splitters and other devices that are not compatible. Always connect the RG-6 type coax cable directly from the satellite dish LNB through the grounding block and attach to the Satellite IN connection on the rear of the satellite receiver.

Cable splitters and other devices in the coax line may cause the satellite receiver to shut down or malfunction. Do not use any device in the coax line unless approved for satellite installation. Multiple receiver installations must use a multiple output LNB to avoid tuning conflicts between the receivers. Splitters will not work!

Multiple Room Install



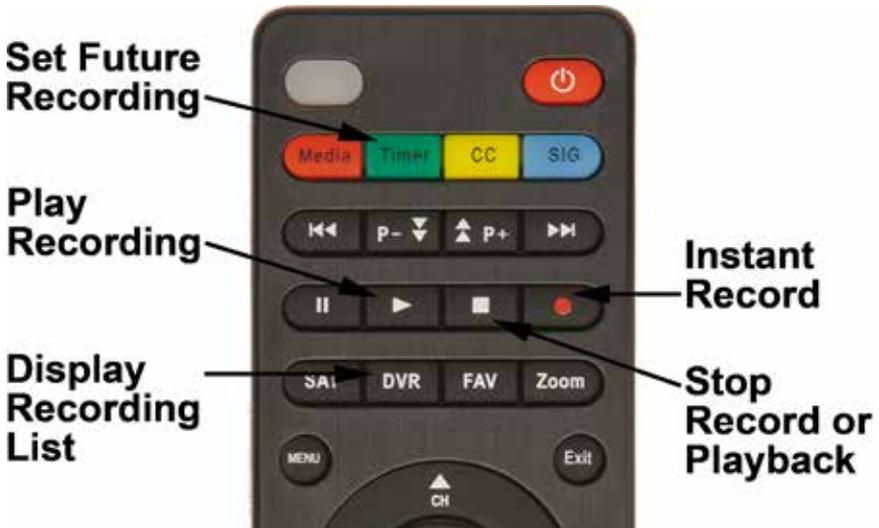
DVR Record / Playback

To enable the Digital Video Record feature of the GEOSATpro HDVR1200, connect an USB drive to the USB port located on the rear panel. The minimum supported USB memory size is 4GB and the largest harddrive is 2TB. Make sure that you connect an USB drive with adequate space to store the programming that you wish to record and archive. Standard definition TV recordings typically require approximately 1GB per hour of recording. Example: 32GB USB thumb drive will provide approximately 32 hours of TV recording while a 500GB will allow up to 500 hours, etc.

The USB drive should have an external power supply. Portable harddrives without external power supplies should not be used for DVR operation as they are not designed for extended recording and playback and have the potential to damage the receiver.

Recordings may be either played back on the HDVR1200 receiver directly to the TV or unplug the USB drive and connect to a PC, Mac or media device for viewing, archiving, burning a DVD or ripping a media file. The DVR recordings are standard ts extension files and no special software is needed on a computer or media player.

DVR Quick Keys



EPG - Electronic Program Guide

If a channel provides the EPG service displaying current and upcoming programs on the channel banner, press the EPG key to display this list. Select the program to record and press the yellow color key to set a future recording timer. (Note that this feature is not currently available on most channels).

Favorites List

The HDVR1200 receiver allows you to create up to eight lists of favorite and frequently tuned channels.

1. Press Menu key and press the left or right navigation arrow key to select Channel.

2. Highlight TV Channel Editor if you wish to create a Favorite List of TV Channels or Radio Channel Editor to create a Favorite List of Radio channels.



3. Highlight the channel that you wish to add to a Favorite List and Press the FAV key to display a list of numbers 1 - 8 below the channel list.



4. Press the Left or Right Navigation Arrow key to select the target Favorite List.

5. Press the OK key to add the channel. The Favorite List number will turn to a yellow color when the highlighted channel is added to the list. A channel may be added up to one or up to all eight favorite lists.

6. To add an additional channel, press the Up or Down Navigation Arrow key to highlight another channel.

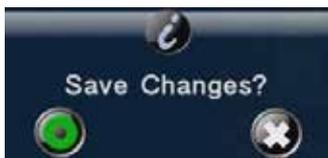
7. Press the Left or Right Navigation Arrow key to select the target Favorite List.

8. Press the OK key to add the channel.

9. Repeat steps 6 - 8 to add additional channels.

10. Press Exit key when finished creating the favorite list(s).

11. To Save changes, select the green color "O" Press OK. To exit without saving changes, press the Right Navigation Arrow key to select the red color "X" and press the OK key.



Cut Here



FOLD HERE

**Site Check Tool
Satellite Elevation Finder**

NOTE: This Angle Finder is to be used only for site checks. It cannot be placed on the dish to set the Dish Elevation Angle.

Punch a small hole. Place a string through the hole and tie a knot. Tie a paper clip or other type of weight to the other end of the string. Allow the weighted string to hang freely across the scale. Match the Dish Elevation Angle provided with this Satellite system or calculated at the web site <http://www.GeoSatFinder.com>

Sight along the top edge of this Elevation Finder. This is how high the satellite is located in the sky.

Are tree limbs or other objects blocking a clear view of the satellite? If so, you will need to site check another location to install the dish.

© Satellite AV, LLC 2012

FOLD HERE