

# Glorystar Installation Guide

**Christian Satellite System**

GEOSAT<sup>pro</sup> DVR1000ci



**Digital Video Recorder System**      45+ Hours Record Capacity  
Reception of Satellites Galaxy25 (IA5) and AMC4

Important Installation Notice: The Federal Communications Commission (FCC) has ruled that local government zoning or homeowner's associations may not prevent the installation of satellite antennas one meter (39") or smaller in diameter, unless legitimate safety restrictions such as fire codes are in effect.

For more information: [www.fcc.gov/cgb/satellite.html](http://www.fcc.gov/cgb/satellite.html)

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**Note:** Save all original boxes, manuals, accessories and packaging materials in case it is necessary to return the merchandise. You have 30 days from the date of delivery to return the equipment for refund or exchange to Glorystar.

Before unpacking or assembly of any item, review the warranty, exchange and refund policy on page 35 of this manual.

Please call 866-597-0728 with any questions.

Materials contained in this installation manual are the property of:

Glorystar Satellite Systems

8801 Washington Blvd., Suite 101

Roseville, CA 95678

[www.glorystar.tv](http://www.glorystar.tv)

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The receiver has a serial number located on the rear panel. Record the model and serial numbers and retain for your records.

Model Name or Number \_\_\_\_\_

Serial number \_\_\_\_\_



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

NOTE: If you don't feel completely comfortable with these tasks, please contact Glorystar toll free at 866-597-0728 or local 916-218-7882 for information on having your system installed by a local installer.

Local installers that are experienced with the installation of Free to Air satellite equipment are often available and listed in your local telephone directory Yellow Pages. There also may be members of your local church or community that install these systems as an outreach.

# Deluxe Glorystar Satellite System Parts



Reflector (1)



LNBF ARM (1)



Post (1)



Tripod Support Leg (2)



DiSEqC Switch (1)



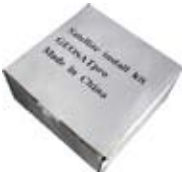
LNBF (2)



Twin LNBF Clamp (1)



3' Coax Jumper (2)



Installation Kit (1)



Satellite DVR Receiver (1)



Dish Accessory Kit (1)

## Tools Required



10, 11mm Socket



Measuring Tape



Phillips Screwdriver



Drill and Bits



Hammer



## Important Safeguards



The lightning flash with arrowhead symbol within a triangle is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure—voltage that may be of sufficient magnitude to constitute a risk of electrical shock.



The exclamation point within a triangle is intended to alert the user to the presence of \*important\* operational and maintenance (servicing) instructions in the literature accompanying the appliance.

**WARNING:** To reduce the risk of fire or electrical shock, do not expose your receiver to rain or moisture.

**CAUTION:** Do not remove cover. No user serviceable parts are inside. Please refer servicing to qualified service personnel only.

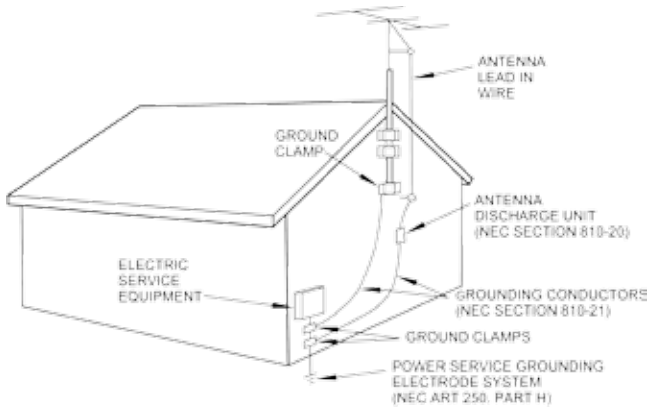
*Note: Hardware / software modifications not expressly authorized by Glorystar will void any system warranty.*

**CAUTION:** To prevent electric shock, do not use your receiver’s (polarized) plug with an extension cord receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

**Notice to System Installer:** This is a reminder to the system installer to follow Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

## Example of Antenna Grounding

NEC, ANSI/NFPA 70



**CAUTION:** Read all of these Instructions. Save these Instructions for later use. Follow all Warnings and Instructions marked on the equipment.

**Read Instructions** All the safety and operating instructions should be read before the product is operated.

**Retain Instructions** The safety and operating instructions should be retained for future reference.

**Heed Warnings** All warnings on the product and in the operating instructions should be adhered to.

**Follow Instructions** Follow all operating and usage instructions.

**Cleaning** Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

**Attachments** Do not use attachments not recommended by the product manufacturer as they may cause hazards.

**Water and Moisture** Do not use this product near water. For example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement, near a swimming pool, etc.



**Accessories** Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a suitable cart, stand, tripod, bracket, or table.

Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer. A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

**Ventilation** Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

**Power Sources** This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

**Grounding or Polarization** This product may be equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. **Do not defeat the safety purpose of the polarized plug.**

**Power Cord Protection** Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.



**Outdoor Antenna Grounding** When an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

**Lightning** For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power line surges.

**Power Lines** An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

**Overloading** Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in risk of fire or electric shock.

**Object and Liquid Entry** Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

**Heat** The product should be placed away from heat sources such as radiators, heat registers, stoves, or any product that produces heat.

**Servicing** Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel. Modification to the hardware or software without authorization by Glorystar the will result in voiding any warranty. Service assistance may be arranged by contacting Glorystar technical support at 866-597-0728.

**Damage Requiring Service** Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

When the power supply cord or plug is damaged.

If liquid has been spilled, or objects have fallen into the product.

If the product has been exposed to rain or water.

If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.

If the product has been dropped or damaged in any way.

When the product exhibits a distinct change in performance, this indicates a need for service.

**Replacement Parts** When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

**Safety Check** Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

## Site Survey

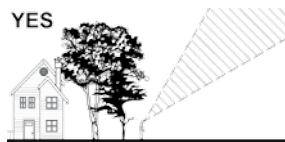
If you feel comfortable with drilling holes in the walls and/or roof of your home, climbing ladders, attaching wires to the utility ground according to NEC and local codes and following step-by-step instructions, you might consider installing your own system.



The satellites are located over 23,000 miles away and 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!

**Please contact Glorystar 866-597-0728 if you would like to schedule a basic professional installation in the US and Canada. In Mexico call 800-727-1080.**

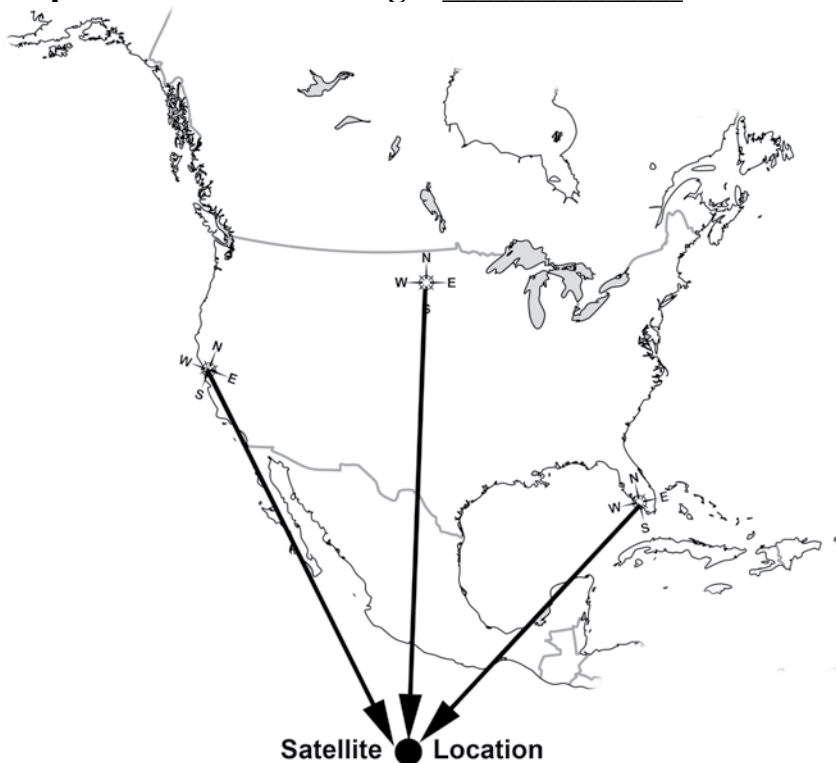
Will a Glorystar Christian Satellite System work at your home? Before assembling any equipment it is important to verify that the installation location has a suitable area to safely and securely mount the satellite dish and have a clear line of site to receive the satellite signal. The satellite dish 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. Do not attempt to install the dish indoors!



## Where Is The Satellite?

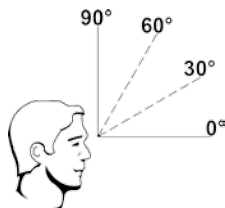
Generally the dish will point towards the South, Southeast or Southwest. The satellites are located south of Texas and Mexico directly over the equator. That means if you live in Miami, you must have a clear line of sight to the Southwest; if you live in San Francisco, you must have a clear line to the Southeast.

## Compass Azimuth Reading: \_\_\_\_\_



## How High Up in the Sky is the Satellite?

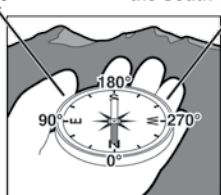
Depending on where you live, the satellite dish angle will be set between 30 and 60 degrees. Southern US point more toward 60 degrees; northern US point more toward 30 degrees. Northern Canada and Hawaiian elevations can be as low as 10 degrees, but Central American dishes will be aimed almost straight up!



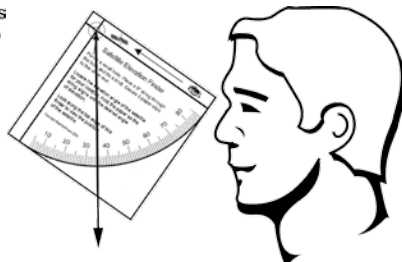
## Dish Elevation Angle: \_\_\_\_\_

If installing West of Texas  
the satellite is located to  
the South East

If installing East of Texas  
the satellite is located to  
the South West

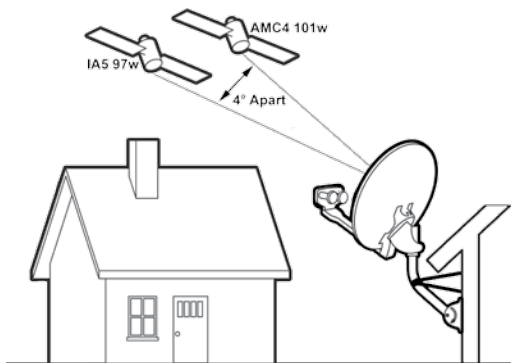


Compass



Elevation Angle Finder

Using the aiming coordinates located on the front cover of this guide along with a compass and the Site Check Angle Finder included with this manual, locate a suitable dish mounting position. 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. Are there any obvious obstructions? If the line of sight appears clear, continue to the check the elevation angle. Sight along the top edge of the elevation angle finder with the weighted string registering the correct elevation angle. Is the line of sight clear with no branches, limbs or tall buildings? *Please note that the Elevation Angle Finder is only used for the site check and cannot be used to set the elevation angle of the dish. The elevation scale on the back of the dish is used for setting the correct elevation angle.*

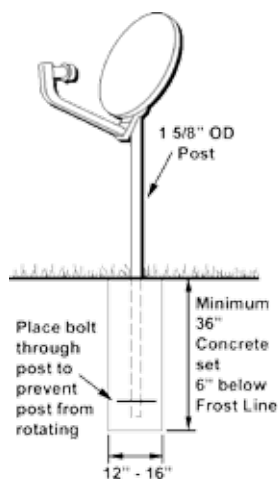


## Reception of Two Satellites

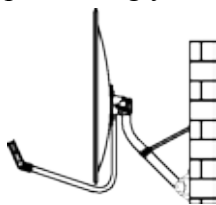
One last site survey item is that the satellite dish receives channels from two satellites located 4 degrees apart. The aiming coordinates provided are for a point between AMC4 and Galaxy25 (IA5). This spacing is very close and only during rare installations would the line of sight be so narrow that only one satellite could be received.

## Dish Mounting Options

We recommend ground mounting the 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 Glorystar system 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. If this universal post mount is used, the included 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.

**Failure to install the tripod legs will result in a charge back to the professional installer.**

## Dish Assembly

Once a suitable dish mounting location has been chosen it is time to set up the dish. Use the large cardboard shipping box as a working surface to prevent damage to the dish components during assembly. We recommend assembling the dish first and then installing on the post mount.



### **Important Note:**

**An assembled dish will not be accepted for refund.**

## Dish Reflector Accuracy

Before assembling the dish it is extremely important to verify that the reflector was not warped during shipping. Failure to check for dish warpage could lead to many frustrating hours of trying to locate the satellite.



Bad - Warped Reflector

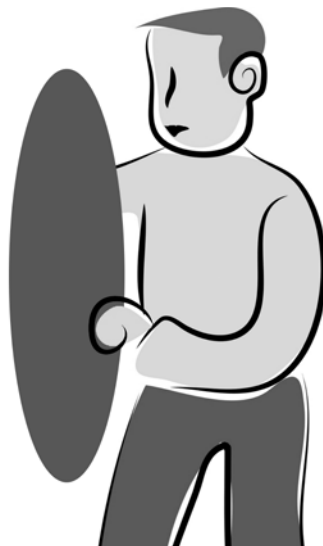


Good - Reflector














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 could be affected!

It is important to check the reflector for warping before assembly of the satellite dish.

If the reflector edges are not laying perfectly flat, pick up the dish by the edges like a steering wheel and quickly thrust the reflector away from your body while holding the edges of the dish. This action will cause the reflector to flex and it will spring back into the factory pressed shape. Lay the reflector face down and observe if the edges are now laying perfectly flat. If not, repeat the flexing process until the reflector edges are uniform and laying perfectly flat against the surface.



### GEOSATpro 90cm Dish Hardware

Item	Quantity		Description	Size
1	6		Carriage Bolt	M6 - 12mm
2	2		Phillips Screw	M4 - 16m
3	2		Hex Nut	M4
4	12		Hex Nut 10mm	M6
5	2		Carriage Bolt	M6 - 30mm
6	1		Structural Bolt 10mm	M6 - 60mm
7	2		Elevator Bolt	M6 - 30mm
8	2		Washer	M6
9	2		Carriage Bolt	M6 - 20mm
A	4		Hex Flange Bolt	M6 - 12mm
B	1		Hex Nut 10mm	M6
C	1		Hex Tap Bolt	M6 - 90mm
D	1		Fastener Insert	

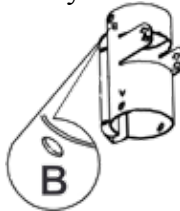
Please contact Glorystar at 866-597-0728 if any of these parts are missing or damaged. Most replacement or damaged hardware items can be found at a local hardware supply store.



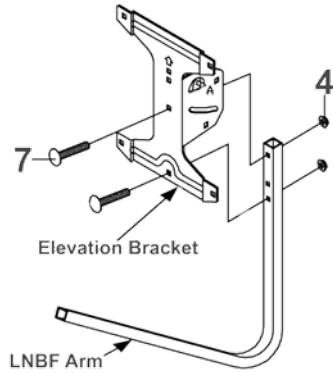
Attach the LNBF Arm to the Elevation Bracket. Assemble the Elevation Bracket and Post Clamp. Most installations in the US and Canada will use Elevation Scale A type assembly. Mexico installations will usually use Elevation Scale B assembly.



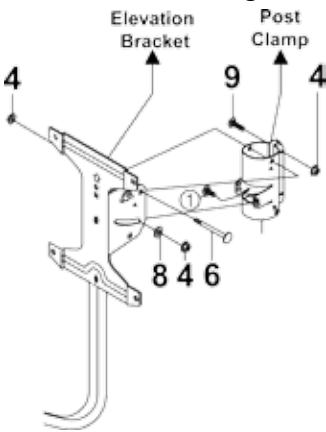
US and Canada



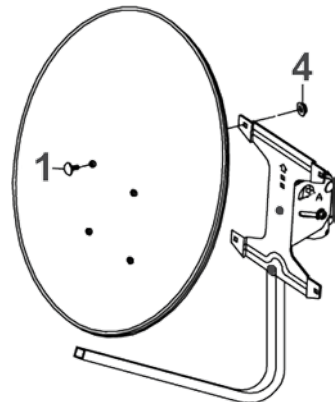
Mexico

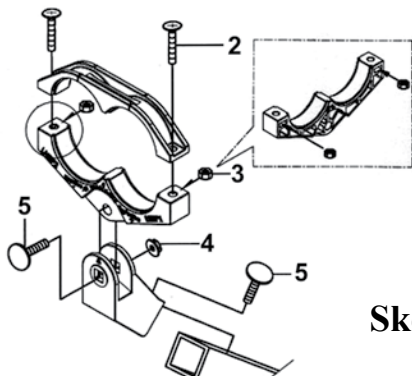


The Post Clamp has two holes drilled. One hole is stamped with an A and the other with a B. Assemble the Elevation Bracket to the Post Clamp using either the hole stamped A if the Dish Elevation Angle is between 20 - 50 degrees or the hole stamped B if the elevation angle is 50 - 90 degrees. The dish has been correctly assembled for Measuring the Dish Elevation Angle using the A Scale if an upside letter B is visible stamped on the Post Clamp. If an upside down letter A is visible on the Post Clamp, the dish has been assembled to use Scale B for measuring the Elevation Angle.



After verifying the reflector is not warped, mount to the Elevation Bracket.





Assemble the 4 Degree Rotating LNB Clamp. The Skew Angle numbers must be visible while standing in front of the dish. Attach the LNB clamp to the LNB arm. LNB #1 is on the right, LNB #2 is on the left.

**Skew Angle:** \_\_\_\_\_

Rotate the Twin LNB clamp to the Skew Angle specified in the aiming coordinates and tighten the locking nut securely to prevent any movement. This setting should be adjusted, locked and not require further adjustment.



Standing in front of the dish looking towards the reflector, a Positive (+) Skew Rotation is counter clockwise, Negative Skew (-) is a clockwise rotation. Each mark on the clamp measures 5°. Example: If the aiming coordinates specify a skew angle of +23, set the pointer to a position between +20° and +25° counter clockwise.

**Example: Negative -40**



Install two GEOSATpro Mini Bullet LNBs into the Twin LNB Clamp, align the centering line on the top of each LNB with the centering pointer on the clamp. Slide the LNB forward towards the reflector so the front face of the LNB is 20mm (3/4'') offset forward of the clamp. Securely tighten both clamp screws (2).



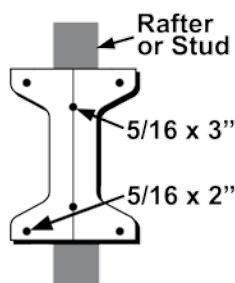
Connect a 1 Meter (39") coax cable from LNBF #1 clamped in the on the end of the LNBF arm to the DiSEqC switch input #1. Connect a second 1 Meter (39") coax cable from LNBF #2 to DiSEqC switch input #2.



Place the DiSEqC switch on the back of the dish and secure the coax cables and DiSEqC switch to the LNBF arm with nylon ties.

Note: LNBF #1 is for AMC4 reception and LNBF #2 is for IA5

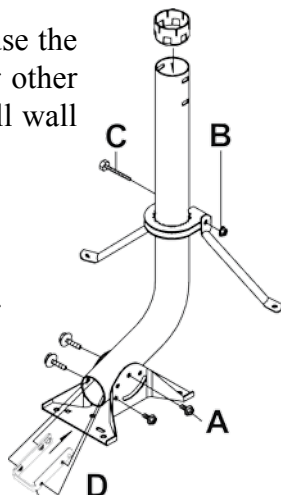
## Optional: Universal Post



Mount the Universal Post Mount Foot Plate to a wall stud or roof rafter using two 5/16th x 3" lag bolts. Adding 5/16th x 2" lag bolts on the outer edges will increase stability.

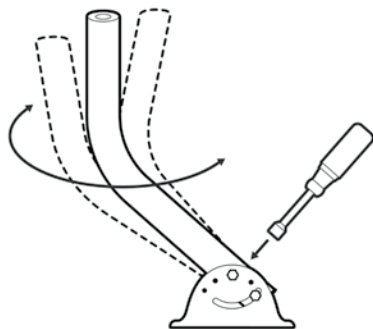
To prevent water leakage, use the included silicone sealant or other waterproofing product on all wall or roof penetrations.

The Universal Post Mount can be assembled for roof or wall type installations. The post has slots for attaching to the Foot Plate on both ends of the tube. This allows the dish to be mounted with either a higher reach above a roof (as pictured) or outward reach away from a wall when using the slots on the opposite end of the post.



## Level and Secure Post

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

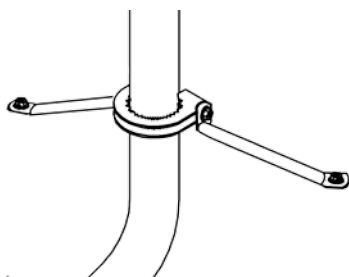


The unique slots in the post tube allows the post to be leveled in almost any installation position. Center the bubble in the level then tighten the 4 flange bolts to secure the post. It is very important to make sure that the post is perfectly plumb (level on all sides). If the post is not exactly plumb, the elevation scale will not be accurate and it will be very difficult to locate the satellites and properly tune the dish for reliable reception.



Not Level    Level

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.



Remember to use silicone or other sealant on any roof or wall penetration. 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 during moderate winds. The post is not designed to solely support the dish. If you hire a local installer, please be sure that the legs are installed.

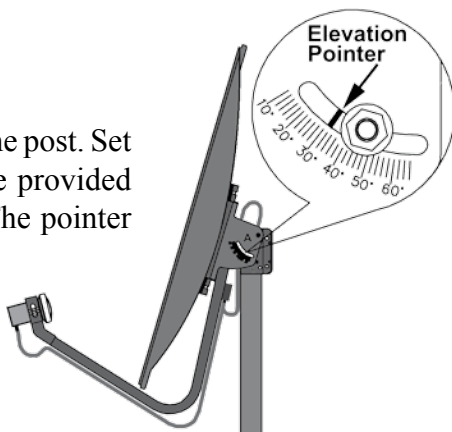
**Glorystar will charge back contracted professional installers if these legs are not installed.**

# Dish Aiming

## Elevation Angle

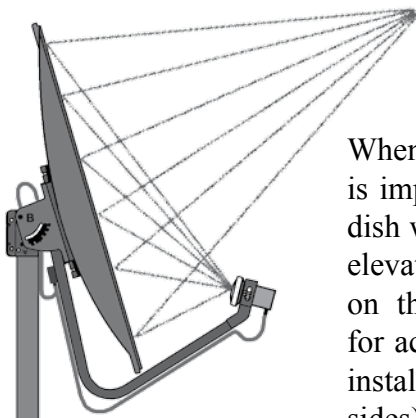
Place the assembled dish onto the post. Set the Dish Elevation to the angle provided on the cover of this manual. The pointer

for the elevation indicator is a white line that is visible through the elevation scale and is located near the edge of the elevation fastening nut.



Semi-tighten the elevation fastening nuts to hold the dish in position. Do not tighten the fasteners for final setting at this time. Additional adjustment will be needed to locate and peak the satellite signal.

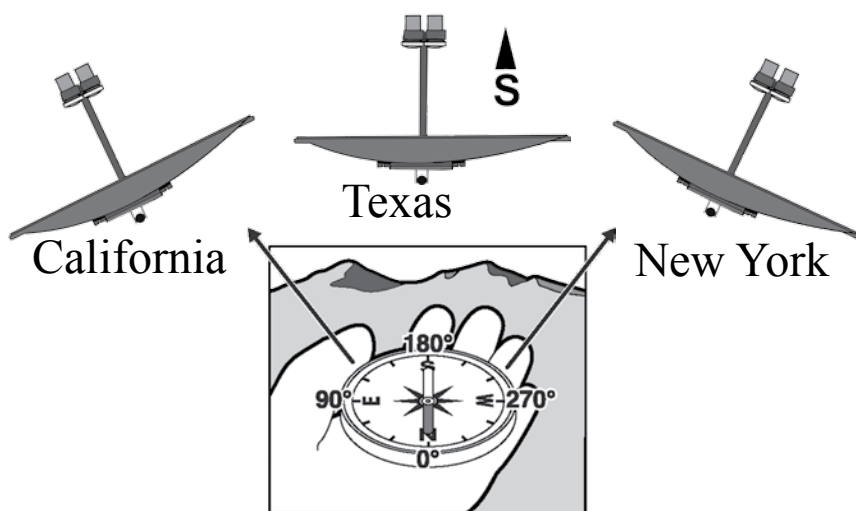
Do not grip the edges of the reflector to adjust the dish. Always hold the dish by the elevation bracket during elevation or azimuth (side-to-side) adjustments. Applying pressure to the reflector will affect the accuracy of the satellite signal reflection from the dish into the LNB.



When setting the dish elevation angle it is important to note that the face of the dish will be aimed lower than the actual elevation angle to the satellite. The scale on the elevation bracket is calibrated for accurate aiming if the post has been installed perfectly plumb (leveled on all sides). The dish elevation angle cannot be set using an angle finder on the LNB arm or on the face of the dish.

## Compass Reading: Azimuth

In North America, the 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.



Example: Texas Magnetic Compass Reading 180 degrees.

Find a reference landmark on the distant horizon that corresponds to the compass reading provided on the cover of this manual. This landmark could be a utility pole, tree, or other stationary object. Installers often find it easier to aim the dish with a 10 - 20 foot string tied to the post and stretched out in front of the dish and aligned with the compass reading.

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 string. Semi-tighten the post clamp nuts, but allow the dish to be just loose enough to be moved left or right by gripping the elevation bracket with applying light pressure.

## Connect Receiver and TV

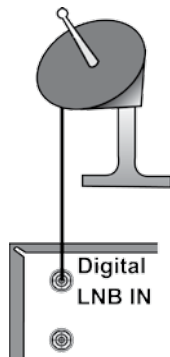
The easiest way to aim the satellite dish is to temporarily place the satellite receiver connected to a small television at the dish antenna mounting location.



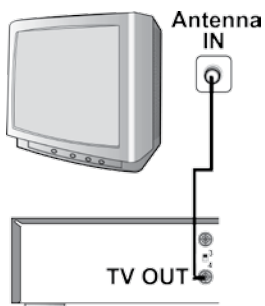
**CAUTION: DO NOT ATTEMPT TO OPERATE ELECTRONIC DEVICES IN AN UNSAFE LOCATION OR IN VIOLATION OF SAFEGUARDS PROVIDED IN THIS MANUAL OR ANY OTHER EQUIPMENT MANUAL PROVIDED WITH THIS GLORystAR SATELLITE SYSTEM.**

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 Glorystar at 866-597-0728.

Install the two included AAA batteries into the remote control. Connect a coaxial cable from the LNBF on the dish antenna to the LNB IN Digital port on the back of the satellite receiver. Do not connect Satellite dish to ANT INPUT, as this input is reserved for an outdoor antenna or cable TV connection.



Finger-tighten all connections. Never use a wrench to tighten the LNBF and receiver connections as this will cause severe damage and void the warranty!



Set the channel 3/4 selection switch on the back of the satellite receiver to an unused channel in your area (usually channel 3). Plug the television power plug into a surge protected power strip. Turn the TV power on and set the channel to match this same channel.

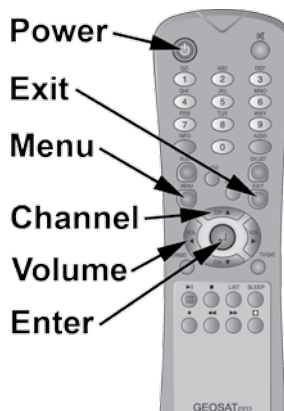
Plug the satellite receiver's AC power plug to the same power strip. Power ON the Master Power Switch on back of the receiver.

## Locate and Peak Signals

Power the receiver into the **Operate** mode by pressing the **Power** button on the remote control.

Press the **MENU** button.

Press the **CH/DOWN** arrow to select **Installation**.



Press **OK**.

Enter password **0000** with the remote numeric keypad.



Press the **CH/DOWN** arrow to select **Antenna Setup**.



Select satellite **AMC4 KU** by pressing the **VOL/LEFT** or **VOL/RIGHT** arrow.

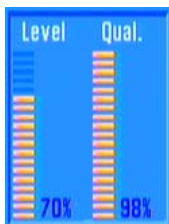
Press the **CH/DOWN** arrow to select the 2nd line, frequency.

Select **11822** by pressing **VOL/LEFT** or **VOL/RIGHT**. (This is 3ABN, the strongest transponder on the 1st satellite).





This screen shot shows a receiver and LNBF that are properly connected, but the dish is not aimed at the proper satellite.



This screen shot shows a receiver and LNBF that are properly connected and the dish is aimed at the proper satellite.

While you or an assistant observes the Signal Quality reading meter, slowly make a small left or right movement of the dish. If necessary, sweep the other direction until an indicator bar appears at any signal quality of 20% or better. As the dish is directed at any of the 30+ satellites visible over North America, the signal strength reading will rise and fall. Only when the dish is aimed at the correct satellite will the Signal Quality reading increase above 10%. *Note: Signal Level is not important at this time.*

If no Signal Quality is detected, increase or decrease the elevation by one degree and sweep once again. The elevation may need to be adjusted up to +/- 5 degrees depending on the accuracy of the post leveling and mechanical tolerances. Move the dish very slowly to allow the receiver to process the signal information and update the strength displays. Sweep extremely slow as a movement of just 1/2 of a degree can result in a perfect or no signal. This process may need to be repeated many times to precisely aim and peak the quality of the signal. Signal Quality must be at least 90% + on this channel.

***Note: Once set, do not re-adjust the skew rotation of the twin LNBF clamp or adjust the LNBFs rotation or placement. This would make the installation process very difficult!***

When the dish is aimed correctly programming will display and the Signal Quality will display a 90% or better quality level. This screen shots show a Quality Reading of a dish that is correctly aimed at AMC4, 11822.



Once the correct satellite is located, make small adjustments in elevation and azimuth until maximum signal is indicated on the quality bar. Quality readings should be as high as possible to insure optimum picture and sound on the receiver. The higher the quality, the better the reception. If the signal quality is low the picture will break up into little squares and the sound will become garbled and choppy or will disappear completely!



Press VOL/UP arrow to place the receiver on 12020 (This is LLBN, a weaker transponder on 1st satellite).

Verify the Quality reading is 70% or better. If not, peak Quality reading by fine tuning the dish angles.

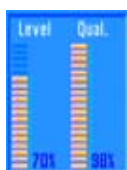


Congratulations! The 1st satellite, AMC4 is now tuned and the next few steps will optimize your installation for reception of all Christian channels on the 2nd satellite IA5 Galaxy25 .

Press CH/UP arrow to select satellite AMC4 KU, then press VOL/UP arrow to place the receiver on IA5 (Galaxy25), the 2nd satellite.



Press the CH/DOWN arrow to select the 2nd line, frequency. Press the VOL/RIGHT arrow to select 12177. (This is TBN, a strong transponder on the 2nd satellite).



Verify the Quality reading is 70% +. If not make very small adjustments to fine tune the dish elevation and azimuth.



Press VOL/LEFT arrow to place the receiver on 11966. (This is the Miracle Channel, a weaker transponder on 2nd satellite).

Verify the Quality reading is 50% +. If not fine tune the dish.



To verify that the dish is accurately aligned for reception of both satellites, press CH/UP arrow to select satellite IA5 KU, then press VOL/DOWN arrow to place the receiver on AMC4. Press the CH/DOWN arrow to select the 2nd line, frequency. Press the VOL/RIGHT arrow to select 12020. Is the Signal Quality above 70%? If so, Congratulations! The satellite system is properly installed and it is time to surf through all of the preprogrammed TV and Radio channels and verify that the Signal Quality is 60% or better on all channels.

## Optional: LNBF Adjustment

**Important Notice:** Adjustments to the twin LNBF clamp or the LNBFs rotation or placement can negatively affect your installation. Please consider stopping the fine tuning process at this time and lock down the dish elevation and azimuth adjustments if the signal quality is 60% or better on the weakest channel!

If any of the channels display a Signal Quality below 50%, additional fine tuning adjustments should be made to the dish elevation and azimuth aiming. If these adjustments do not increase the signal quality, slight adjustments to the LNBFs rotation or placement may be necessary. Note the channels with the lowest signal quality and use the CH UP and CH DOWN arrows to switch between while making adjustments.



### LNBF Rotation Adjustment

LNBF #1 or #2 can be slightly rotated within the twin LNBF clamp  $\pm 5^\circ$  to optimize the satellite quality readings.

Slightly loosen the two Phillips head screws that secure the twin LNBF clamp. Place the receiver on the weakest AMC4 channel and slowly rotate LNBF #1 left or right. If no improvement in quality, re-center the LNBF. Place the receiver on the weakest IA5 channel and slowly rotate LNBF #2 left or right. If no improvement in quality, re-center the LNBF.



### LNBF Position Adjustment

LNBF #1 or #2 can be slightly positioned in the twin LNBF clamp towards or away from the reflector to optimize the satellite quality readings. Place the receiver on the weakest AMC4 channel and slowly slide LNBF #1 in toward the reflector or out away from the reflector. If no improvement, return the LNBF to the 25mm (1") forward offset position. Place the receiver on the weakest IA5 channel and slowly slide LNBF #2 in or out. If no improvement, return the LNBF to the 20mm (3/4") offset. Tighten the two Phillips head screws to secure the twin LNBF clamp.

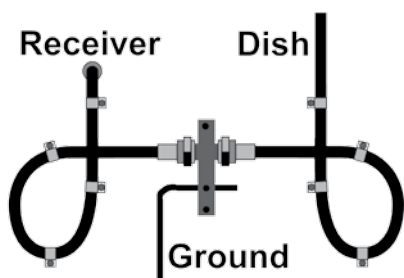
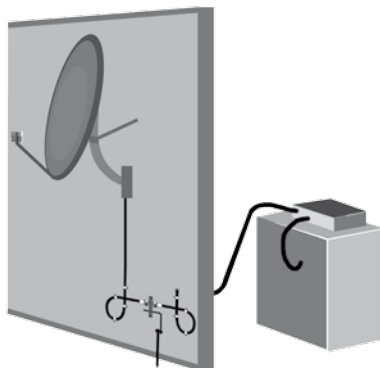
Record Signal Quality Sample Readings

CH #	Channel Name	Quality %	Quality %

Installation Notes:

## Completing the Installation

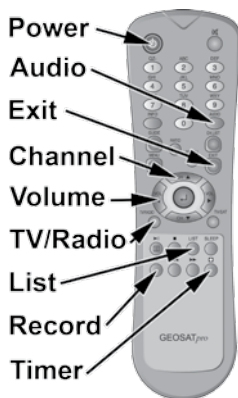
Carefully route the coax cable from the dish to the ground block then to the satellite receiver. Secure all cables using appropriate cable clips and nylon zip ties. Avoid using wire staples as they can dimple or penetrate the cable and can cause loss of signal! Form drip loops and cable loops as needed 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 often available at your local library or online.

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

Cable splitters or any 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 should use a multiple output LNB to avoid programming conflicts between the receivers.



## Basic Operation

Turn the satellite receiver ON/OFF using the Power button.

Change channels by either entering the channel on the numeric keypad or by pressing CH/UP or CH/DOWN buttons.

The volume is adjusted by pressing the VOL/UP or VOL/DOWN buttons. This does not affect the audio level during a recording to the hard drive. *Note: Volume is also controlled by the TV. Glorystar*

*suggests that the satellite receiver volume be set at mid-level and use the TV to adjust the sound level.*

The TV/RADIO button select between viewing the satellite TV channels or listening to satellite radio services.

Channels may offer alternative audio translations or additional audio services. Press the AUDIO button to determine if additional audio selections are available. Press CH/UP or CH/DOWN to select alternative audio then the EXIT button. *Note: This selected source will be the default audio when this channel is selected.*

Press the RECORD button to start a recording of current programming.

The TIMER button sets schedule for recording at future time.

The LIST button displays all programs currently recorded on the hard drive. These programs can be viewed while a current program is being recorded.

The receiver features many of the controls necessary for basic operation of the satellite system in case the remote is misplaced.

\* See the DVR1000ci Owners Manual for additional features.

## FAQ – Frequently Asked Questions

**Remote doesn't work but receiver front panel buttons may turn on/off and change channels.** Check batteries, remote needs a clear line of sight to the receiver. Reset Master Power switch on rear of the receiver.

**No lights on receiver.** Check power plug make sure that it is plugged into a working electrical outlet. Reset Master Power switch.

**Receiver displays 50%+ Signal Level, 10% Quality on all channels.** The dish might be pointed at the wrong satellite or there is an obstruction in the line of sight between the dish and the satellite. Mounting mast may have moved or is loose. Reset Master Power switch.

**Meters display 0% signal level and no quality.** Coax not connected from LNBF on dish to SAT INPUT on receiver. Dish not properly aimed. Bad coax, connectors or LNBF failure.

**Picture breaks up into big blocks and the audio is garbled.** The antenna might not be aimed correctly. Satellite view partially obstructed. Damaged coax or connections.

**Satellite receiver has a channel number on front panel, but TV displays snow.** Tune TV to channel 3 /4 or the AV input if using the RCA AV cables.

**Local or cable TV channels are fuzzy and channel number is displayed on front panel.** Turn off the satellite receiver when watching local or cable channels.

**No audio on any satellite channels.** Set satellite remote control audio up to 75% and use the TV volume control to adjust volume.

**Picture breaks up during rain and snow.** Heavy rain or clouds may affect the strength of the satellite signal. A properly installed dish will rarely lose signal during extreme weather. Snow or ice build up can interfere with the satellite signal. Mount the dish where snow can be gently brushed off. Dish covers and heaters are available for locations with regular ice and snow accumulations.

**DVR will not record.** Local time has not been set. Hard disk is full. Overlapping timers.



**Satellite receiver displays “No Signal” only during very hot or cold weather.** LNBF is aging or is affected by temperature extremes. Replace the LNBF.

**Most of the channels have strong Signal Quality, but Miracle Channel signal quality is poor or the receiver displays “No Signal”.** Miracle Channel has a weaker signal than the other channels and may display a low signal quality or no signal. Installations often need to be fine tuned to receive this weaker station. Slight adjustments might need to be made to the antenna elevation, azimuth and the LNBF rotation and distance from the reflector to peak the quality.

**I only receive either the TV or the Radio Channels.** How do I switch between these services? Press the TV/Radio button on the lower left corner of the remote control. This button toggles between the TV and Radio services available.

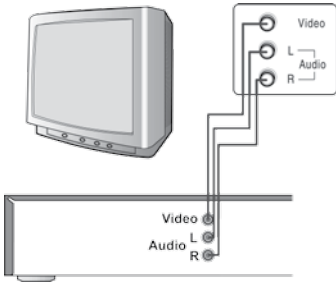
**Are more channels available?** Many more channels are often available for viewing on this and other satellites. This receiver is capable of automatically programming these additional TV and Radio services. Many free national and international services are available. Do this at your own risk, as Glorystar will only provide the warranty free technical support for the reception of the Glorystar programming.

### Scanning the Satellite for Additional Channels (optional)

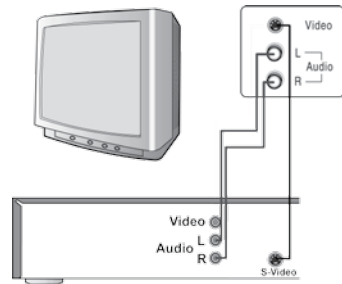
1. Press MENU on the remote, verify that the receiver is in the Installation Menu. If not, CH/DOWN arrow to enter the Installation Menu.
2. Press OK and enter password 0000.
3. Press CH/DOWN to select Satellite Scan.
4. Press VOL/Right arrow to select FREE ONLY
5. Press CH/DOWN to select satellite name
6. Press VOL/Right arrow to select IA5 KU or AMC4 KU
7. Press ENTER button to begin the satellite scan. This process will take approximately 3 minutes.
8. After the Scanning is complete, press the ENTER button once to save and a second time view or listen to the scanned channels.

Do not call to activate programming; all channels are free to air and available with no monthly charge. The receiver assigns channel numbers while scanning; therefore, no uniform channel line-up will be available after a scan is performed.

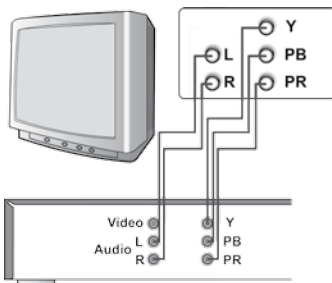
## Connection Examples



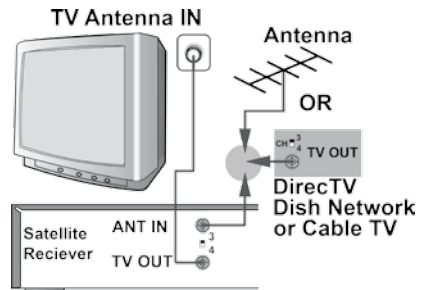
Audio / Video RCA



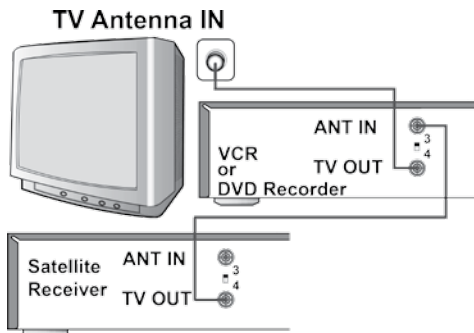
S-Video / Audio RCA



Component Video / Audio RCA



Cable, DirecTV, Dish or Antenna



VCR or DVD Recorder

Please consult the owners manual provided with TV, VCR or other device that will be connected to the Glorystar satellite receiver. The manual will include important connection and operational information. Please contact Glorystar technical support for assistance in connecting the receiver to a television. Questions regarding the connection to any other equipment should be directed to the manufacturer of that device.

## Accessories

Glorystar carries a large selection of satellite accessories and replacement items. Call 866-597-0728 or visit [www.glorystar.tv](http://www.glorystar.tv) for additional items or to place an order.



Satellite Finder Meter  
Installs Faster, Easier  
\$15



AC Surge Protector  
Protect Your Investment  
\$10



Non-Penetrating Roof Mount  
No Holes or Temporary  
\$55



RF Remote Extender  
Change Channels from 2nd Room  
\$45



Universal Remote  
Mercury Replacement  
\$20



Dish 1.2 Meter  
Reliable Fringe Area Reception  
\$129.



LNBF  
\$20



Twin LNBF Clamp  
\$15



Signal Line Amplifier  
Long Cable Runs  
\$12



RCA A/V Cable  
VCR or Stereo Connectors  
\$3



S-Video Cable  
Better Quality Picture  
\$6



RG6 Coax Cable 3'  
Connect VCR or to Splitter  
\$2.50



Satellite Receiver with PVR  
45+ Hour Record time.  
\$259



Extra Mercury II Receiver  
Replacement or Upgrade  
\$135



Splitter for 2 TV Viewing  
Low Cost 2 Room Viewing  
\$5

## One Year Limited Warranty

Glorystar Satellite Systems are guaranteed to be free of defects in materials and workmanship under normal use for a period of 12 months from the date of Sales Invoice by the original purchaser. Annual warranty extension and telephone technical support is available for a \$19.95 fee.

Glorystar agrees to repair or replace the unit at no charge within the warranty period, provided that the item is delivered to a Glorystar service center in the original packaging and appropriately protected and packaged for shipment.

The warranty does not cover damage due to lightning, flood, fire, act of God, electrical surge, accident, misuse, abuse, negligence, modification of hardware, installation of software, improper operation, installation, or maintenance.

The warranty remedies presented here are exclusive and in lieu of all other expressed or implied warranties. No other representations or claims shall bind or obligate Glorystar in any way. Any warranty applicable to this product is limited to the period described above. In no event will Glorystar be liable for any special, incidental, or consequential damages, loss of revenues, cost of replacement goods, cost of professional services, or installer fees resulting from the use or malfunction of these products or to the equipment systems on which they are used.

## Return, Repair and Exchange Policy

1. Call Glorystar Customer Service at 866-597-0728 for an RMA number (Return Merchandise Authorization) before returning any merchandise.
2. Equipment must be properly protected and packaged to prevent damage in transit. The retail display box provided with the equipment is not suitable to use as a shipping container. Write the RMA number on the outside of each box near the mailing address.
3. All returned equipment must include a copy of the original Sales Invoice or the name, address, along with the RMA number and a description of the reason the equipment is being returned. Glorystar will not be responsible for any loss or damages incurred while in transit for such returned merchandise.
4. Ship authorized RMA Merchandise to:

**Glorystar Satellite Systems**

**8801 Washington Blvd., Suite 101**

**Roseville, CA 95678**

5. Warranty repair merchandise must be received within the 12 months from the date of Sales Invoice. Merchandise will be evaluated and tested for manufacturing defect or faulty workmanship. Problem-free merchandise or problems caused by improper settings or operation error may be charged a \$35 bench fee plus shipping charges. All returned merchandise for refund or exchange must be received by Glorystar within 30 days of the original date of delivery. Equipment will be accepted for return if it is unassembled and in like new condition with original packaging and accessories. Refunds, exchanges or refused shipments are subject to a 20% restocking fee plus shipping charges.
6. Glorystar reserves the right to refuse any returned merchandise if the equipment is returned without an RMA, not sold by Glorystar or its authorized distributors, found to have hardware / software modification or used in a manner that voids the manufacturers warranty.

## Quick Guide for Professional Installers

*This section is an overview of the installation information contained in this booklet designed for the experienced professional installer.*

Glorystar equipment is preprogrammed to receive all Christian Television and Radio Services on satellites Galaxy25 (IA5) and AMC4. No activation is necessary.

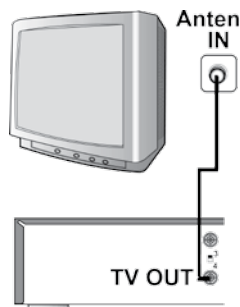
Before assembling the satellite dish, lay the reflector on a flat surface. **Verify that the reflector has not been warped** in shipping. If the edges do not lie flat, hold the dish like a steering wheel and rapidly flex the reflector away from your body. Repeat if needed until the edges lay perfectly flat.

1. Perform a thorough site survey using the included dish aiming coordinates for Glorystar Twin Satellite System. The dish arm will be aimed near the DirecTV 101w location. Verify line of site for the 4 degrees between Galaxy25 (IA5) 97w and AMC4 101w.
2. Install the dish on either the universal roof/wall mounting post or mounted on a steel post set in concrete. It is very important to have the post perfectly plumb before mounting the dish. Mast tripod support legs **MUST** be installed if the dish is mounted with the included universal post mount. **Failure to install the tripod support legs will result in a Charge Back to the contracted installer.**
3. Install two LNBFs into the Twin LNBF clamp. The LNBF cover will extend approximately 20mm (3/4") in front of the clamp toward the reflector. Align the LNBF centering marks with the clamp centering pointers. LNBF #1 is for AMC4 and LNBF #2 is for Galaxy25 (IA5).
4. Rotate the Twin LNBF clamp to the Skew Angle specified in the aiming coordinates and tighten the locking nut securely to prevent any movement. This setting should not require further adjustment. The Skew Angle numbers are visible while standing in front of the dish. A Positive (+) skew angle is counter clockwise, Negative (-) is clockwise.

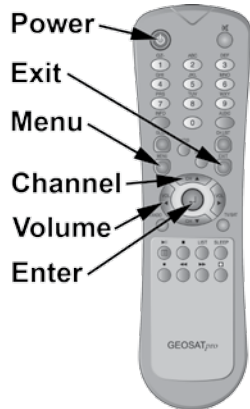
*If using a Lacuna, SatHawk, BirDog or SatBuddy digital satellite location and identification meter, connect LNB # 1 to the meter and use data for standard LNB type, KU, AMC4, Horizontal and Vertical transponders. Peak for AMC4. Connect LNB #2 and use a data set for IA5 (also known as Telstar 5 or T5). Peak for IA5. Verify and balance the aiming for optimum AMC4 and IA5 reception.*

5. The satellite receiver features very sensitive Strength and Quality meters to align the dish. Connect LNB #1 to DiSEqC switch input #1, LNB #2 to DiSEqC switch input #2 using the three foot coax cables. Connect the DiSEqC switch output to the satellite receiver Digital LNB IN using the 25' or 75' coax cable.

6. Connect the satellite receiver **TV OUT** to the television set **Antenna IN**. Place the **Output Selector Switch** on the back of the receiver to Channel 3 or 4 and select the same channel on the television set.



7. Power **ON** the **Master Power** switch on the rear of the receiver.



8. Power the receiver in the **Operate** mode by pressing the **Power** button on the remote control.

9. Press the **MENU** button.

10. Press the **CH/DOWN** arrow to select **Installation**.

11. Press **OK**.

12. Enter password **0000** with the remote numeric keypad.

13. Press the **CH/DOWN** arrow to select **Antenna Setup**.

14. Select satellite **AMC4 KU** by pressing the **VOL/LEFT** or **VOL/RIGHT** arrow.

15. Press the **CH/DOWN** arrow to select the 2nd line. This line selects the frequency that the receiver is tuning.

*The Signal Strength Level and Signal Quality is displayed in the lower left corner of the screen.*

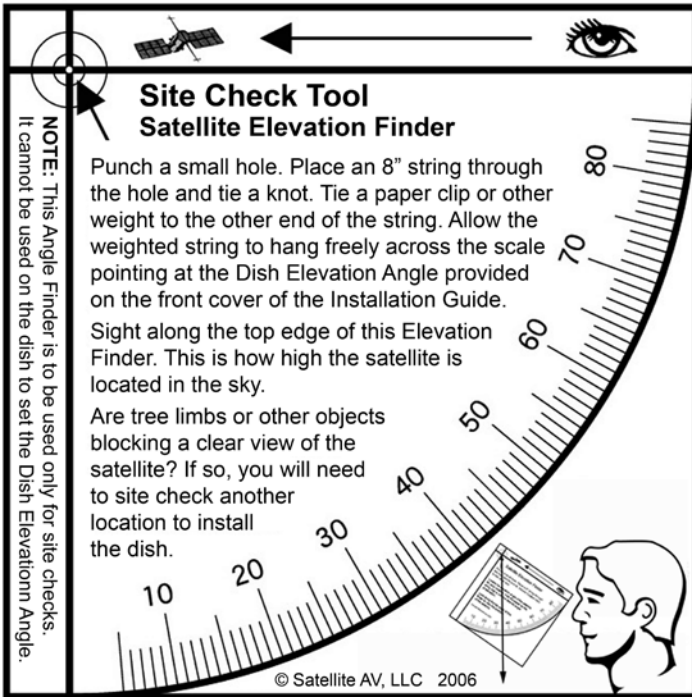
16. Select **11822** by pressing **VOL/LEFT** or **VOL/RIGHT**. (This is 3ABN, the strongest transponder on the 1st satellite).
17. Locate the satellite and peak **Signal Quality** reading by setting the dish elevation and panning the dish side to side. As the dish is directed at any one of the 30+ satellites visible over North America, the signal strength reading will rise and fall. Only when the dish is aimed at the correct satellite will the Signal Quality reading increase above 10%. *Note: Signal Level is not important at this time.* If no Signal Quality is detected, increase or decrease the elevation by one degree and sweep once again. The elevation may need to be adjusted up to +/- 5 degrees depending on the accuracy of the post leveling and mechanical tolerances. Signal Quality must be at least 90% + on this channel.
18. Press **VOL/RIGHT** arrow to place the receiver on **12020**. (This is LLBN, a weaker transponder on 1st satellite).
19. Verify the Quality reading is **70% +**. If not, peak Quality reading by fine tuning the dish angles.
20. Press **CH/UP** arrow to select satellite **AMC4 KU**. Press **VOL/UP** arrow to place the receiver on **IA5**, the 2nd satellite.
21. Press the **CH/DOWN** arrow to select the 2nd line. Press the **VOL/RIGHT** arrow to select **12177**. (This is TBN, a strong transponder on the 2nd satellite).
22. Verify the Quality reading is **70% +**. If not, fine tune the dish.
23. Press **VOL/LEFT** arrow to place the receiver on **11966**. (This is the Miracle Channel, a weaker transponder on 2nd satellite).
24. Verify the Quality reading is **50% +**. If not fine, tune the dish.
25. Press **EXIT** button **3 times** to exit the menus. Verify all channels are being received. If so, the installation is complete!

*Installer Tip: If you are having trouble locating the satellites, remove the Glorystar LNBFs from the clamp and install a DirecTV LNBF into the LNBF #1 position. Locate the DirecTV 101w satellite with a meter or DirecTV receiver. Replace the Glorystar LNBFs into the clamp. The Dish is now roughly aimed and will only require fine tuning for optimal reception of the linear satellites.*



**Cut Here**

**FOLD  
HERE**



**FOLD  
HERE**