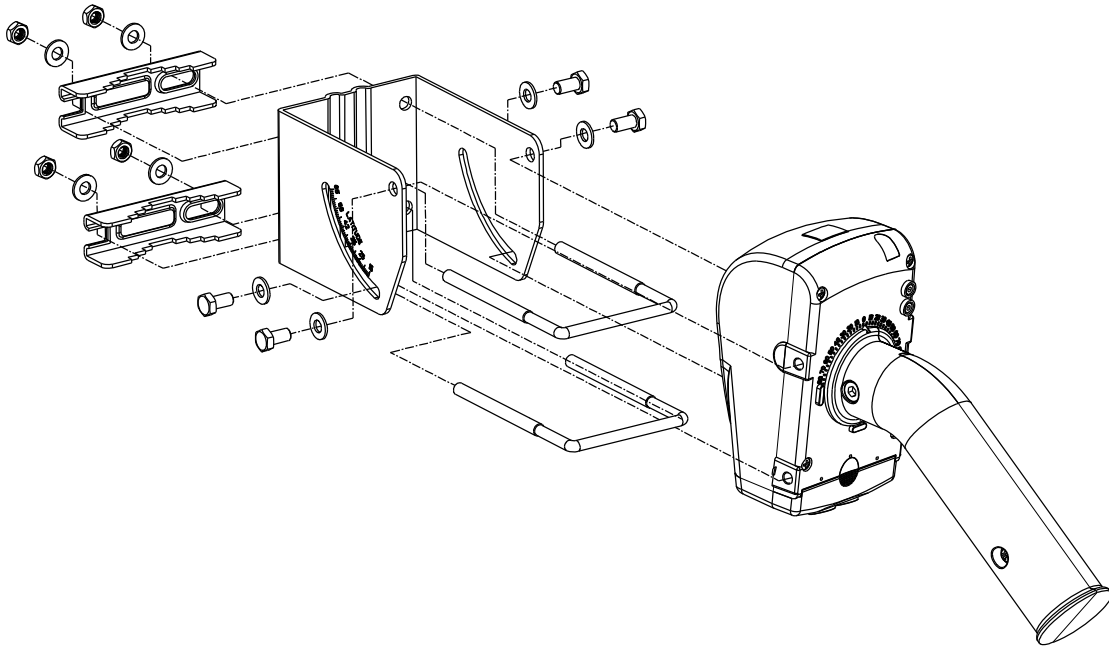


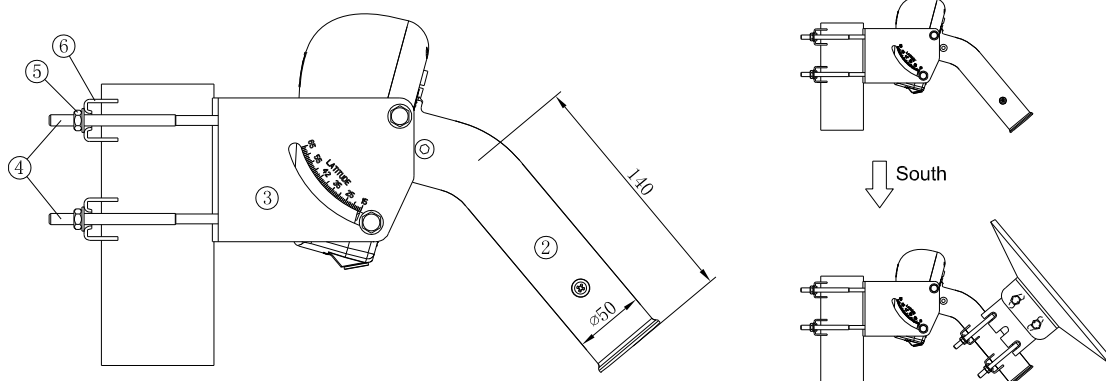
# SG6100 by DMS International

## INSTALLING THE MOUNT

1. Assemble the H-H Mount as the following diagram.



2. Ensure the mounting tube indicates  $0^\circ$ . If not, sit it to exactly  $0^\circ$  using the manual buttons on the bottom of the mount. The cable must be connected to the receiver which must be switched on.
3. Make sure the mounting pole is exactly **vertical** before installation.
4. Fix the H-H Mount onto the Mounting pole or stand and tighten the two u-bolts **evenly**. Make sure there is no obstacle facing the southern sky, such as a tree or building.



# SG6100 by DMS International

## ALIGNMENT OF THE MOUNT

### 1. Finding TRUE SOUTH.

Attaching the Antenna Dish to the Mount. Make sure the dish is at the center of the mounting tube. Rotate the mount together with the antenna toward TRUE SOUTH. You can find the TRUE SOUTH using the magnetic variation table and a compass that indicates the MAGNETIC SOUTH.

### 2. Setting Elevation Angle.(A)

Adjust the motor elevation angle using an Inclinator or the Latitude scale on one side of the Motor according to the Latitude of your position.

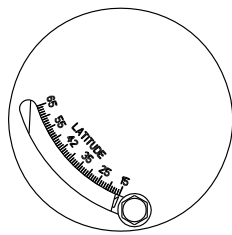
### 3. Setting Declination Angle.(B)

- Find the Declination Angle on the attached **ANGLE TABLE**

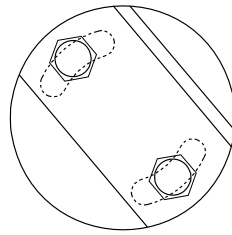
- Set the Declination Angle by the scale on the antenna dish. The reading on the antenna scale should be: **35°-DECLINATION ANGLE**

4. Drive the antenna east and west via the manual buttons on the bottom of the Mount to check if the reception arc is correct. If not, adjust the direction. Elevation. and declination angle to find the best reception.

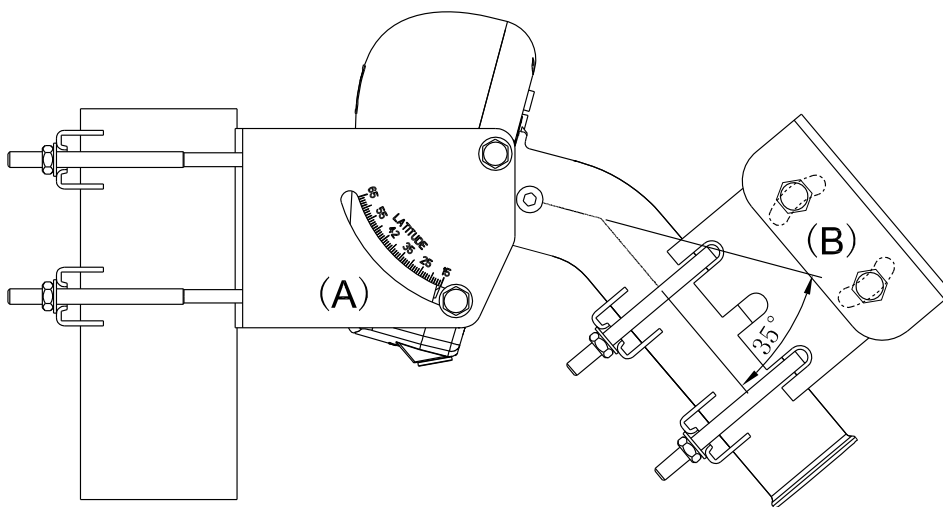
**P.S. To ensure** power to drive the antenna ,first connect the Mount to the receiver or interface box via coaxial cable.



(A)



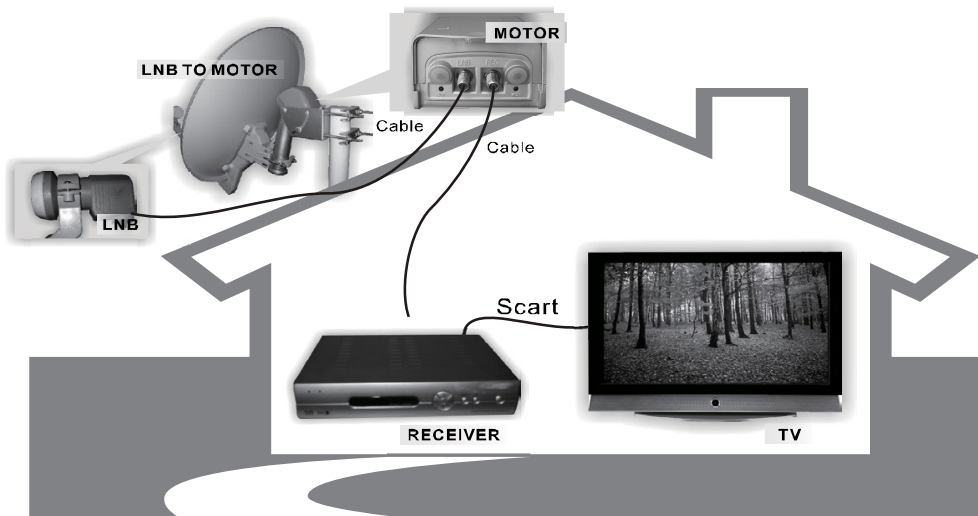
(B)



# SG6100 by DMS International

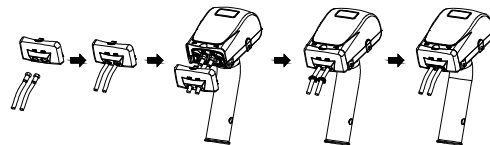
## CABLE CONNECTION

Connect the DiSEqC Mount and the coaxial cable (RG-6/U) per the following diagram



Connect the DiSEqC Mount and the coaxial cable (RG-6/U) per the following diagram.

1. Connect the cable to the mount across the front cover.
2. Fix the cover on the mount.
3. Fix the rubber rings on the cable.
4. Insert the rubber rings into the holes of the cover.



# SG6100 by DMS International

## DiSEqC 1.2 OPERATION

The DiSEqC Motor is designed for DiSEqC 1.2 Receiver. The commands of the receivers might be different, but similar. Please refer to the manual of the DiSEqC 1.2 receiver.

1. **Go East / West:** Rotates the antenna to East / West.
2. **Fine Tune East/ West:** Rotates the antenna East/West for one step.
3. **Store nn:** Store Satellites position nn (01-100)
4. **Goto nn:** Rotates Motor to Satellite Position nn (01-100)
5. **Goto 0°:** Rotates the Motor to 0° as a reference point.
6. **Re-synchronize/Shift:**
  - (a) Rotate the motor to a position by Goto command.
  - (b) Rotate the motor East/West to a better position.
  - (c) Send Re-synchronize commands to the motor. The original position will be shifted to the new position. All the other Satellite positions are also changed

## Goto X Function

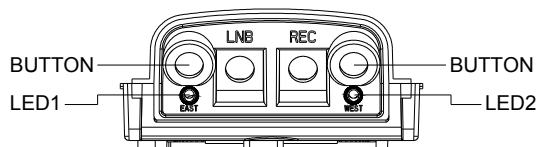
1. See your receiver manual and select the type of installation in **Goto X** mode.
2. Fill in the empty spaces in the receiver's menu with the **Latitude** and **Longitude values**. When the values have been correctly received, the receiver drives the Motor to the calculated position
3. Rotate the locked together antenna and motor slightly clockwise or anticlockwise until you find an image on the TV-screen connected to the receiver or the signal and quality, and then tighten the fixing screws

# SG6100 by DMS International

## LED INDICATOR

The 2 LED indicators on the bottom of the motor can show the following information: MOTOR

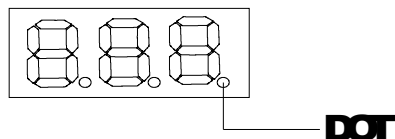
Color	Status	Description
Green	On	Power on, Standby
Red	On	Error Message: Overcurrent/Reach limits
Red	Blink	Receiving DiSEqC command/Reset Mode



## DIGIT DISPLAY INDICATOR

- 1.The digit display will show the current angle of the tube.
- 2.The “Dot” of the lower right corner will indicate the direction, West or East. If it lights on, it means the east angle, if it turns off, it means the west angle. For example, “**40.5**.” means east 40.5 degrees of the angle, “**40.5**” means west 40.5 degrees of the angle

P.S. If the angle value on the display is different from the indicator of the tube , please execute the operation “**Goto 0**” or “**Re-synchronize/Shift**”.



# **SG6100 by DMS International**

## **HARDWARE RESET BY RECEIVER**

1. Execute the command: Go To Reference(Go to "0").
2. Cut off the power by disconnecting the coaxial cable.
3. Reconnect the coaxial cable.
4. Execute the command: Shift"0"
5. Then, its memory erased, the receiver rewrites the satellite table to initial one and corrects the "0".

## **HARDWARE RESET BY DiSEqC MOTOR**

1. Cut off the power by disconnecting the coaxial cable.
2. Press and hold both EAST/WEST buttons for 5 seconds.
3. Reconnect the coaxial cable.
4. Red LED blinks for 4 times.
5. Then ,its memory erased, the receiver rewrites the satellite table to initial one and corrects the "0".

# SG6100 by DMS International

## Troubleshooting the H-H Mount

Symptoms	Check points
The manual buttons don't work.	<ol style="list-style-type: none"><li>1. Connect the Motor to the receiver via coaxial cable first and make sure the receiver power is on.</li></ol>
The Mount doesn't work .	<ol style="list-style-type: none"><li>1. Ensure all cables and power are connected well.</li><li>2. Check if the receiver is DiSEqC 1.2. if not, try to use our interface box.</li><li>3. Check whether the dish is too heavy.</li></ol>
The Mount stops at some positions and can't go farther.	<ol style="list-style-type: none"><li>1. Disable the software limits and move the motor again.</li><li>2. Make sure the Mount or antenna are not interfered with any</li></ol>
The Mount runs intermittently.	<ol style="list-style-type: none"><li>1. Make sure the antenna is not too heavy or too large</li><li>2. Check if the cable quality is good enough. Try a better RG-6U cable.</li><li>3. Check whether the output power of the receiver is higher than 350mA</li></ol>
The Mount sometimes runs fast and sometimes runs slowly.	<ol style="list-style-type: none"><li>1. The speed of the Mount varies with receiver output voltage (13/18Vdc)</li></ol>
All satellite positions are not correct and the angle value on the display is different from the indicator of the tube.	<ol style="list-style-type: none"><li>1. Correct this problem via the "Goto 0"Function, the Mount will go to 0 degree as a reference point.  <b>OR</b></li><li>2. Goto a satellite position via receiver or interface box wait for about 30 seconds until the motor stops.</li><li>3. Drive the antenna East or West until the reception of this satellite is clear.</li><li>4. Use "Re-calculate" or "Shift" Function to correct position.</li></ol>

# SG6100 by DMS International

## SPECIFICATION

- H-H Mount

Protocol	DiSEqC 1.2 & Goto "X"
Compatible Receiver	Receiver with DiSEqC 1.2 or Interface Box
Antenna Size	120 cm Max.
Speed	2.5° / sec(at 13V) ; 3.2° / sec(at 18V)
Azimuth Angle	80° East ~80° West (160°)
Elevation Angle	25~75°
Input Voltage	13 / 18Vdc
Output Voltage	13 / 18Vdc
Power Consumption	100mA(Standby) 200mA(Normal) 350mA(Max.)
Satellite Positions	100 positions
Calibration Function	Yes(Goto 0°)
Manual East/West Buttons	Yes(Build-in on the bottom of the Mount)
Limit Protection	1.Fixed type with micro-switches 2.Programmable Software Limit 3.Current Limit
Positioning Sensor	High Resolution Hall Effect Sensor
Connector	F-Type
Weight(Mount)	3.1 Kg (Net) / 3.5 Kg (Gross) (~8 lbs)
Dimension(Mount)	345*168*110mm3(Gross)

**DiSEqC™ Is a trademark of EUTELSAT**



# SG6100 by DMS International

## ELEVATION AND DECLINATION ANGLE TABLE

Your Site Latitude	Elevation Angle	Declination Angle	Dish Bracket Angle	Your Site Latitude	Elevation Angle	Declination Angle	Dish Bracket Angle
0	90	0.0	35.0	34	56	5.5	29.5
1	89	0.2	34.8	35	55	5.6	29.4
2	88	0.4	34.6	36	54	5.8	29.2
3	87	0.5	34.5	37	53	5.9	29.1
4	86	0.7	34.3	38	52	6.0	29.0
5	85	0.9	34.1	39	51	6.1	28.9
6	84	1.1	33.9	40	50	6.3	28.7
7	83	1.2	33.8	41	49	6.4	28.6
8	82	1.4	33.6	42	48	6.5	28.5
9	81	1.6	33.4	43	47	6.6	28.4
10	80	1.8	33.2	44	46	6.7	28.3
11	79	1.9	33.1	45	45	6.8	28.2
12	78	2.1	32.9	46	44	6.8	28.2
13	77	2.3	32.7	47	43	7.0	28.0
14	76	2.4	32.6	48	42	7.1	27.9
15	75	2.6	32.4	49	41	7.2	27.8
16	74	2.8	32.2	50	40	7.3	27.7
17	73	3.0	32.0	51	39	7.4	27.6
18	72	3.1	31.9	52	38	7.5	27.5
19	71	3.3	31.7	53	37	7.6	27.4
20	70	3.4	31.6	54	36	7.6	27.4
21	69	3.6	31.4	56	34	7.8	27.2
22	68	3.8	31.2	58	32	7.8	27.2
23	67	3.9	31.1	60	30	8.0	27.0
24	66	4.1	30.9	62	28	8.2	26.8
25	65	4.2	30.8	64	26	8.3	26.7
26	64	4.4	30.6	66	24	8.4	26.6
27	63	4.5	30.5	68	22	8.4	26.6
28	62	4.7	30.3	70	20	8.5	26.5
29	61	4.8	30.2	72	18	8.6	26.4
30	60	5.0	30.0	74	16	8.6	26.4
31	59	5.1	29.9	76	14	8.6	26.4
32	58	5.2	29.8	78	12	8.7	26.3
33	57	5.4	29.6	80	10	8.7	26.3

# SG6100 by DMS International

## Pre-Store Satellites Table

NO	Satellite Name	Longitude(+West / -East)
1	TELESTAR 12	15W
2	ATLANTIC BIRD 1	12.5W
3	ATLANTIC BIRD 2	8W
4	NILESAT 101,102, ATLANTIC BIRD 4	7W
5	ATLANTIC BIRD 3	5W
6	AMOS 2/3	4W
7	INTELSAT 10-02	1W
8	SIRIUS 4	4.8E
9	EUTELSAT W3A	7E
10	EUROBIRD 9A	9E
11	EUTELSAT W1	10E
12	HOTBIRD 6,7A,8	13E
13	EUTELSAT W2	16E
14	ASTRA 1F/H/KR/L/M	19.2E
15	EUTELSAT W6	21.6E
16	EUROBIRD 2	25.5E
17	BADR 4-6	26E
18	ARABSAT 2B	30.5E
19	ASTRA 1D	31.3E
20	EUTELSAT W4	36E
21	EXPRESS AM-1	40E
22	TURKSAT 2A/3A	42E
23	EXPRESS AM22	53E
24	INTELSAT 902	62E
25	ABS 1	75E
26	NSS 7	22W