



Installation Manual

Wall Mounting

EN

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DigiDish 33



DigiDish 45



Satman 33



Satman 45



Multytenne 45

Dear customer,

thank you for purchasing one of the quality products produced by TechniSat. In order to ensure that the quality of the product remains constant over many years, both the dish and the mounting bracket are made of aluminium. Please read the installation instructions carefully before proceeding with the installation, to ensure that you can enjoy optimum reception performance after installation. Before starting the installation, please check that you have received all parts and components of the external unit.

Items supplied (see illustrations 1 and 2)

Item	Article			
1	AZ/EL bracket with LNB holding bracket and swivel profile			
2	Dish antenna			
3	Connector			
4	Wall mount*: 	"short" or 	"medium" or 	"long"
5	LNB			
6	LNB holding bracket with 2 screws M3x30, 2 nuts M3, 2 washers**			
A	Screws M6x15, 4 nuts M6, 4 washers			
D	Screws for the adjustment of the elevation angle			

* Contents vary with package selected
 **only with DigiDish

Illustration 1

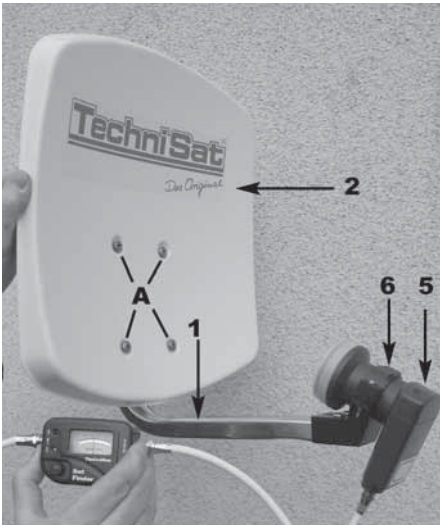
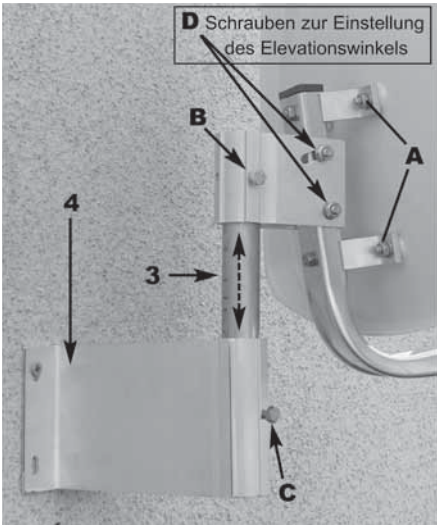


Illustration 2



1 Mounting the external unit

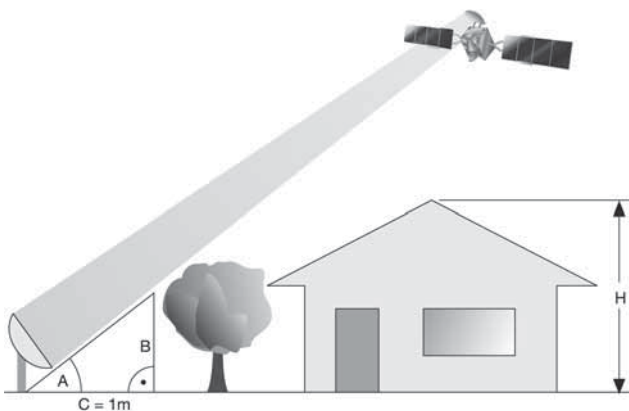
When you unpack the external unit, you will find that it has already been partly pre-assembled, so all you need to do is to mount the dish (item 2) and the connector piece (item 3). First, use the screws (A) to attach the dish to the AZ/EL bracket (item 1). Then loosen the screw (B) on the swivel profile in order to mount the connector piece. Then mount the LNB (item 5) on the LNB holder, using the LNB holding bracket (item 6) as shown in illustration 1.

2 Installation

Selecting a location

- First ensure there is an uninterrupted line of sight from the intended mounting position in a southerly direction in order to receive signals from the satellite position ASTRA 19,2° East. With the aid of the illustration below you can see whether you have left enough space with regard to any neighbouring obstruction, in order to avoid the signal being weakened by such an obstruction. When mounting the dish below a terrace, please ensure that it is not in the shadow of a projecting roof.
- Now attach the wall mount (item 4) horizontally at the location selected. In order to ensure an optimum hold for the external unit, you should select appropriate fastening materials (dowels, screws, etc.). Because of the huge variety of wall conditions found in practice, no fastening materials for mounting the wall mount is supplied with the package.
- Loosen the screw (C) on the wall mount, and attach the external unit using the connector piece.

Angle A (elevation)	Gradient B (cm per m)
22°	40,40
24°	44,52
26°	48,77
28°	53,17
29°	55,40
30°	57,74
31°	60,00
32°	62,49
33°	64,90
34°	67,45
35°	70,02
36°	72,65
37°	75,36
38°	78,13



3 Safety notes

When installing the unit, please conform with the various European standards and VDE regulations relating to the safety of electrical appliances and installations (e.g. VDE 0855, Part1). When in doubt, consult your retailer.

4. Mounting the F-connectors

Note!

Attach the F-connectors while the receiving installation is disconnected from main power!

Please proceed with extreme care when installing the F-connectors, in order to avoid any functional problems or even the destruction of the satellite receiver, which can result from incorrectly mounted connectors. In addition to the text, please also see illustration 3.

- Use a sharp knife to remove approximately 6 mm of the insulation at the end of the cable, cutting down to the core cable. Please be careful not to damage the core cable.
- Remove the extraneous section of shielding mesh.
- Now remove 10 mm of the outer plastic mantle, in order to expose the wire mesh. Please ensure that the wire mesh is not damaged.
- Ensure that no wires of the shielding mesh are in contact with the core cable.
- Now twist the F-connector carefully on to the cable, until the core cable is level with the front rim of the F-connector. Then check once more that the wire mesh is not in contact with the core cable. The F-connector is now correctly mounted.

Screw-on F-connector

Exposed wire

wire mesh

Silver foil

5. Positioning the external unit

The positioning of the external unit should preferably be done with the aid of a calibration tool. Alternatively, positioning can also be effected with the aid of the less expensive TechniSat SatFinder (Article No. 0000/3045). If neither of these aids is available, positioning can be carried out as follows, using a digital receiver and a television set.

1. Use a suitable co-axial cable to connect the LNB to the receiver.
2. Connect the receiver to the television set, and set the receiver to a programme slot on which a programme of the desired satellite can be received.
3. Consult an AZ/EL table to determine the elevation angle for your location. For Example, the angle for the ASTRA 19,2° East satellite in the German town of Daun is 31,29°. As your external unit incorporates an offset dish, the angle of elevation to be set is not the angle in the table, but an adjusted angle which is calculated for the specific dish used. This is calculated as follows

Angle of Elevation – Offset angle = Angle to be set

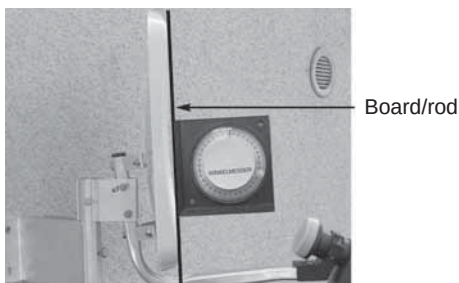
The offset angle of the DigiDish 33 resp. the DigiDish 45 is 30°.

Therefore, if you are in Daun and using a DigiDish 33 resp. 45, this results in an angle of:

$$31,29^{\circ} - 30^{\circ} = 1,29^{\circ}$$

4. Loosen the screws (D) on the swivel profile so that you can move the external unit up or down. Place a rod or plank over the dish as shown in Illustration 4. Now use a protractor to set the angle calculated.

Illustration 4



5. Now loosen the screw (C) resp. (B) on the swivel profile, and slowly turn the dish in an easterly or westerly direction (angle of azimuth), until you receive the television picture via the receiver.
6. Some fine-tuning of the dish is now still required. Ideally, you should call up the transponder information (see operating manual of the digital receiver).
7. Now carefully adjust the azimuth (East/West) angle as well as the angle of elevation so that the indicator for signal strength resp. quality is at a maximum level.
8. Now tighten all screws, and take care to note that reception does not deteriorate. The dish is now completely mounted, and has an optimum position for the reception of the desired satellite.

Mounting advice

Multytenne LNB

Art. No. 0000/8810

Dear customer,

Your Multytenne LNB is designed for use with the SATMAN 45 satellite dish antenna. With this, you can receive the digital programmes of 4 orbital positions while located in Germany. Reception in neighbouring or other countries may be restricted.

The Multytenne LNB is pre-set for the following 4 satellite positions:

Astra 19,2° East

Eutelsat 13° East

Astra 23,5° East

Eurobird-Astra 28,5° East

In order to receive the programmes of all 4 satellite positions via your digital receiver, you must programme these satellite positions in the antenna settings of your receiver, as per the operating manual of your receiver.

Position/Option	Switching criterion	Satellite
A/A	1	Astra 19,2° East
B/A	2	Eutelsat 13,0° East
A/B	3	Astra 23,5 ° East
B/B	4	Eurobird-Astra 28,5° East

Set the 4 switching criteria of the DiSEqC control as follows:

1. Push the LNB housing onto the twin-tube frame, and hold it in position by means of the self-tapping internal hexagonal screw supplied.



2. Now use a suitable antenna calibration tool (DiSEqC setting: A/A) to position the dish for the Astra 19,2° East satellite.
3. Use a suitable co-axial cable to connect the LNB to the digital receiver.

Note!

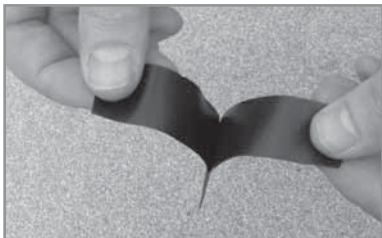
Do not open the LNB housing, as this would compromise the weatherproof qualities, and the LNB could be damaged by seeping water and humidity. Opening the LNB housing will void the guarantee!

Sealing the LNB connection

Dear customer,

in order to prevent any moisture from entering the Multytenne LNB, please use the self-sealing duct tape supplied to insulate and seal the LNB connection.

1. First remove the foil from the sealing tape.



2. Apply one end of the sealing tape approx. 1-2 cm below the F-connector.



3. Now stretch the sealing tape as much as possible, and wrap it around the co-axial cable and the F-connector, with overlapping edges. Stretching the sealing tape ensures that the layers of tape form a sealed bond at the overlapping edges.



4. The LNB is now insulated and sealed, so that no water or humidity can penetrate.



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Your
TechniSat Team

Optional accessories:

Tube clamp for mounting on a mast: Art. No.: 0000/0500

Balcony stand Art.No.: 0000/1751



This product bears the CE symbol, and complies with all relevant EU standards.

Subject to change without prior notice, not responsible for printing errors.

Correct as at 10/04

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