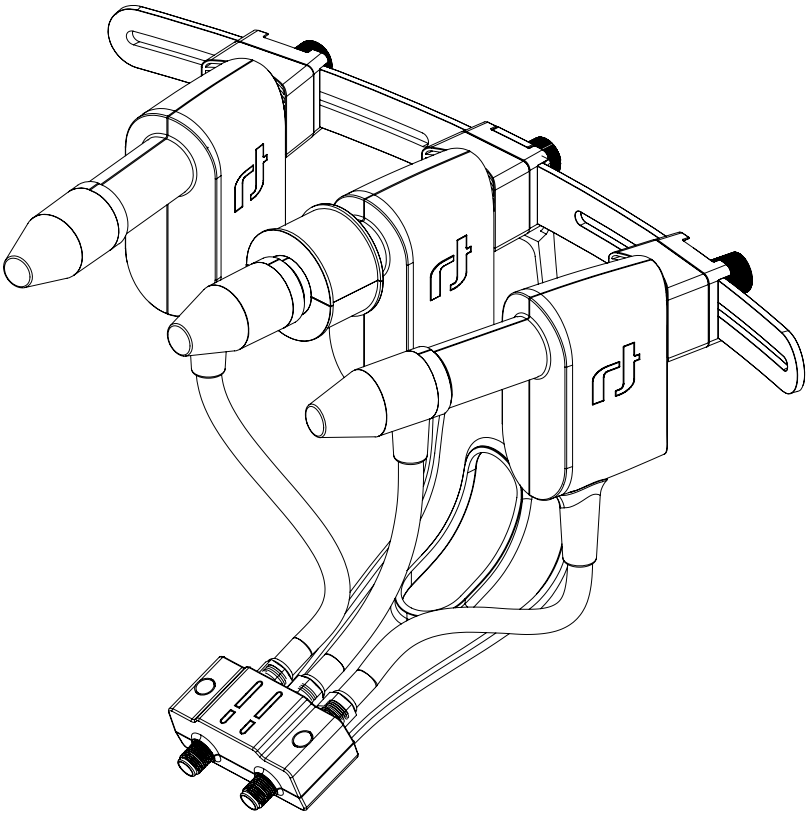
inverto.tv™

MultiConnect™ System

Installation Guide

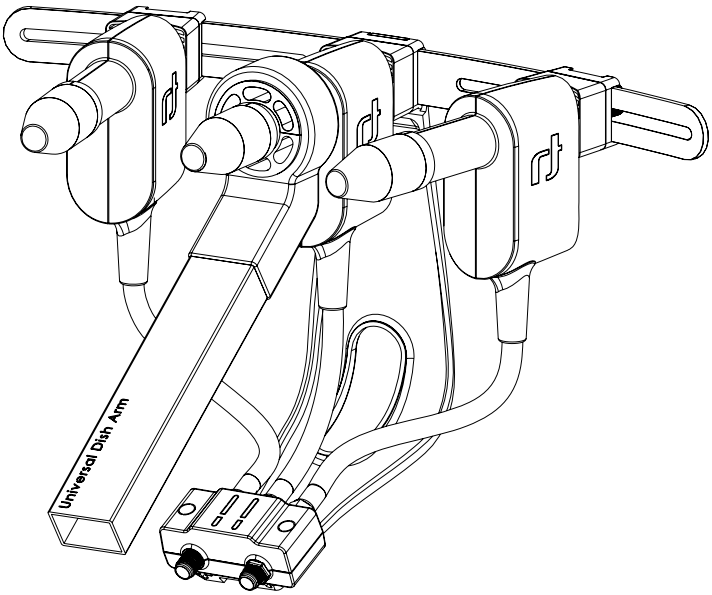


Thank you for purchasing Inverto's innovative MultiConnect system and we are certain it will meet your expectations.

Before installing the system, please read the following instructions and recommendations. We suggest that you keep this manual for future use.

System description

The MultiConnect system supports reception of multiple satellites with any universal dish antenna. The following diagram depicts the system architecture:

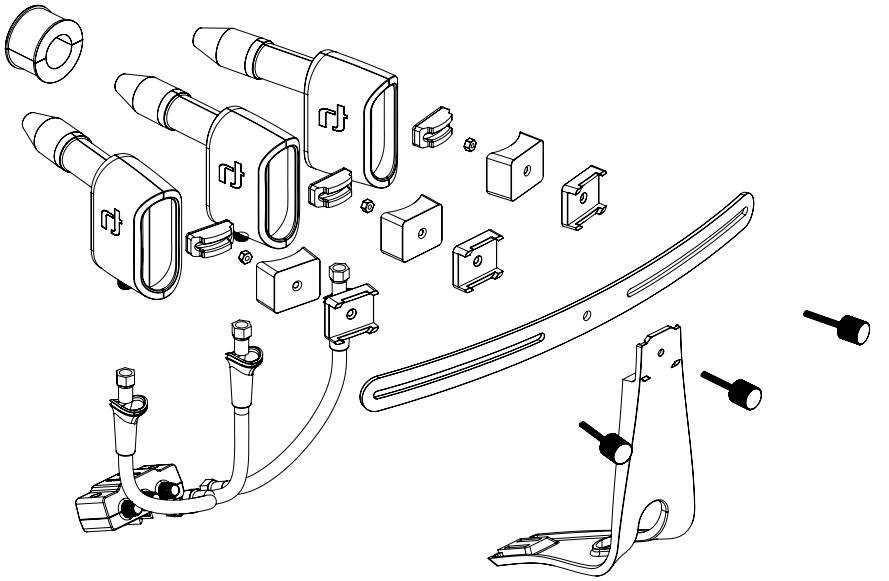


The system is based on unique LNB designs and set of mounting parts provided in two kits to support numerous installation scenarios – (a) Base-kit supporting installations of up to 4 MultiConnect Single and/or Twin LNBs, and (b) Quad-expand kit supporting installations of up to 4 MultiConnect Quad LNBs.

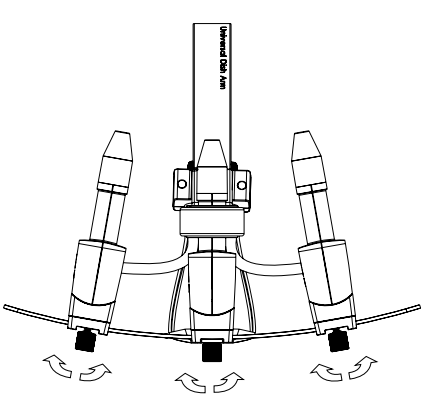
Thanks to the slim feed technology of the MultiConnect LNBs, the MultiConnect system supports remarkable reception span of multiple satellites. from 2 to 30 degrees spacing depending on the actual dish size:

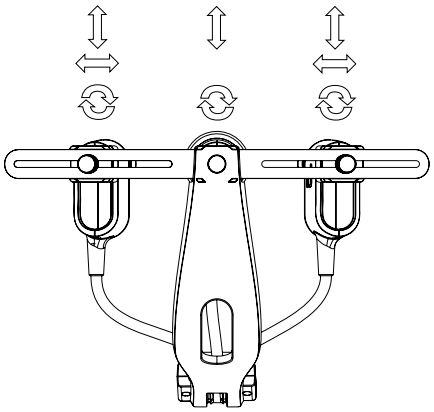
Dish antenna size	Minimum spacing between satellites	Maximum spacing between satellites
60cm (∅)	3 degrees	30 degrees
80cm (∅)	2 degrees	22 degrees

The system is mounted over a central LNB that is fixed to the satellite antenna's LNB feed holder. Since most LNB feed holders are designed for 40mm LNBs, there is a 23mm to 40mm ring adaptor supplied in the base-kit. Each MultiConnect LNB incorporates a built-in inner block behind its back cover. The inner block contains a bolt and together with the supplied screw tightens the LNB to the multi-feed arc bracket:



Due to the unique design of the inner block and the corresponding mounting parts, the MultiConnect LNBs can rotate on all axes and set on the optimal position for best signal reception. The LNBs can move up/down, left/right, in/out-ward the focal point and rotate clock/anti-clock wise:



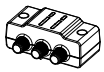
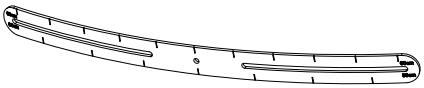
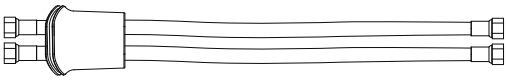
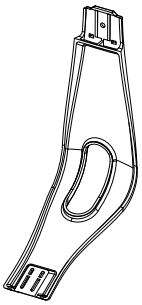


System kits

The MultiConnect system is modular and supports numerous installation scenarios. The system has two basic mounting kits to cover all installation scenarios with up to 4 MultiConnect LNBs. Installations of 5 LNBs or more are possible and require more kits to be used.

Base Kit

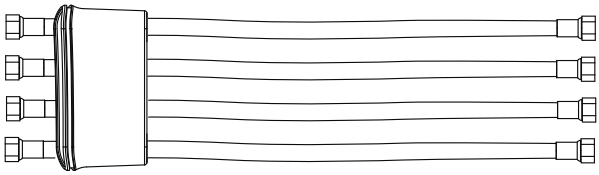
The Base kit provides all the parts required for installation of up to 4 MultiConnect Single or Twin LNBs on any universal dish antenna.
The following table lists all the parts supplied in this kit:

Part description	Quantity supplied	Part diagram
23mm to 40mm ring adaptor	1	
Spacer	4	
Long extender	4	
Long screw	5 (+ 1 spare)	
4 to1 DiSEqC 1.0 switch	2	
Multifeed arc bracket	1	
Twin RF cables with rubber boot for water protection	4 sets	
Single RF cables with rubber boot for water protection	4 sets	
Switch mounting arm	1	
Hex wrench	1	

Quad-expand kit

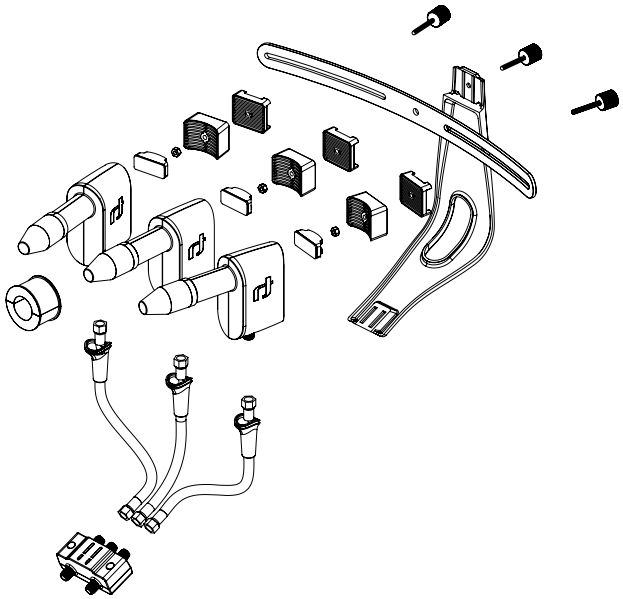
The Quad-expand kit provides all the parts required for installation of up to 4 MultiConnect Quad LNBs on any universal dish antenna.

The following table lists all the parts supplied in this kit:

Part description	Quantity supplied	Part diagram
Spacer	4	
Short extender(marked with II sign)	4	
Short screw	5 (x 1 spare)	
4 to 1 DiSEqC 1.0 switch	2	
Quad RF cables with rubber boot for water protection	4 sets	

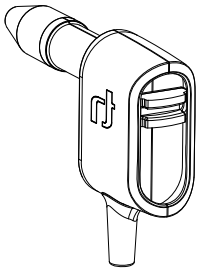
System installation

The following diagram shows the system elements and shall assist you when installing your system:



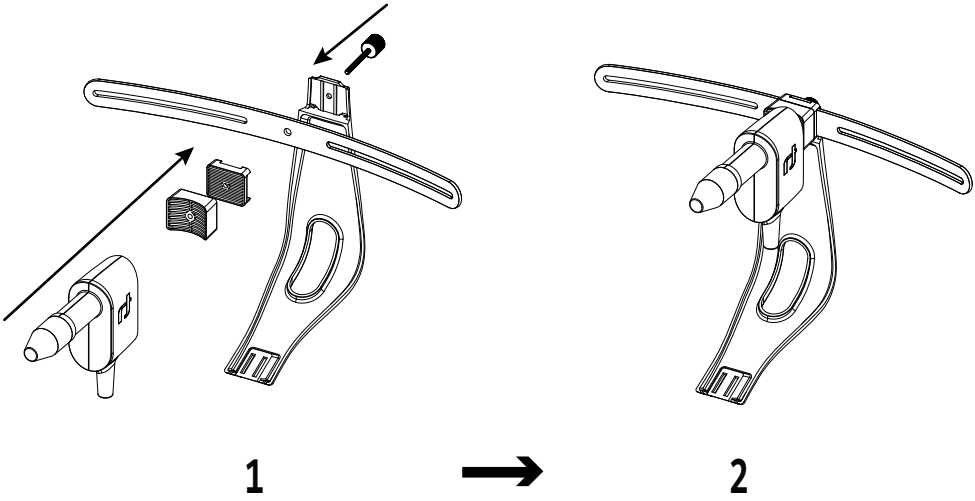
Recommended installation steps:

1. Remove the back cover of the LNBs you intend to install. You should see the inner-block with its built-in bolt.



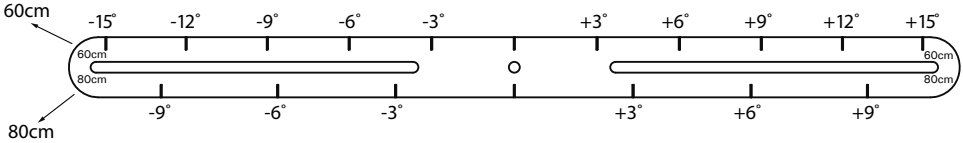
2. Connect the RF cables to the LNBs and fix the rubber boot for water protection.

3. Connect the central LNB to the LNB extender, spacer, multi-feed arc bracket and switch mounting arm with the supplied screw. Note that Quad or Quattro LNBs shall use the short screws and short extenders while Single and Twin LNBs shall use the long screws and long extenders.
   Use the supplied hex wrench to tighten the screw firmly.



4. Connect the rest of the MultiConnect LNBs on the multifeed arc bracket in the same way described in (3) above. Use the supplied hex wrench to tighten the screw firmly.

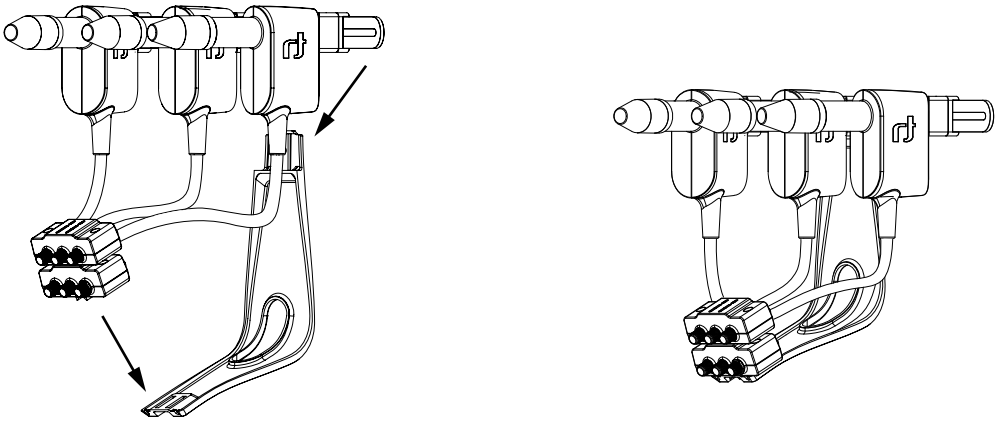
Note: The multifeed arc bracket is marked with tags spaced by 3 degrees - referenced to the position of the central LNB - to allow quick adjustment of the LNB's azimuth. The arc bracket has two lines of marks - one for 60cm dish antennas and the second for 80cm dish antennas.



1. Connect the LNB RF cables to the DiSEqC switches. The inputs of the DiSEqC switches are marked with ‘A’ to ‘D’ and the output port that connects to the STB at home is marked ‘Out’.

Note :Installations of Quattro LNBs do not make use of the DiSEqC switches and are typically connected to universal Multiswitch unit.

2. After all the LNB RF cables are connected to the inputs of the DiSEqC switches, stack the switches one on top of the other (clicking mechanism) and then click in the stacked units to the dedicated openings in the switch holder arm.

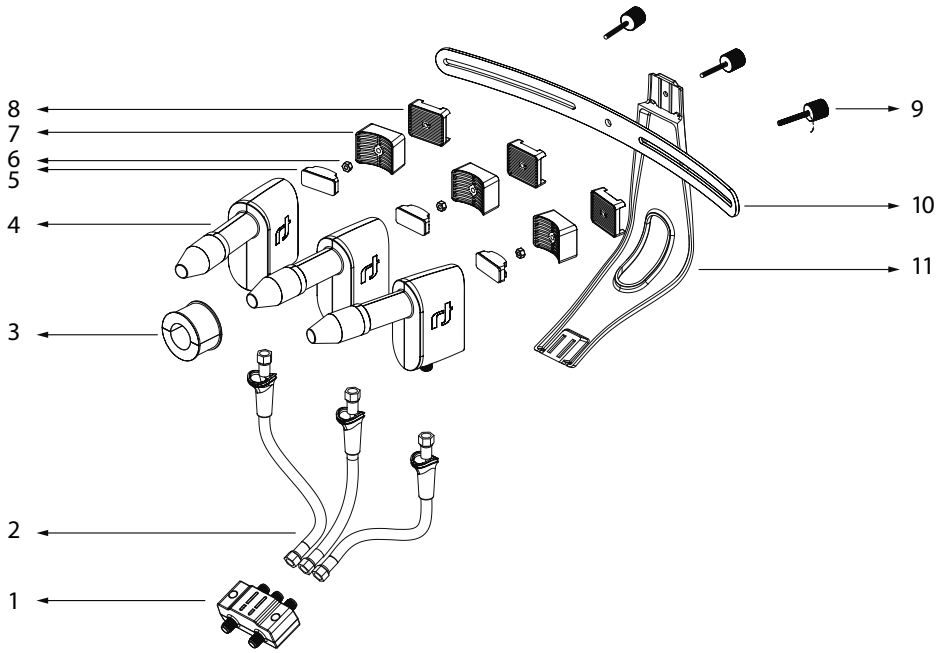


Disposal

Following relevant EU directives, this device shall not be disposed of together with municipal waste. Use local waste collection and recycling systems to dispose wore out products.

* DiSEqC™ is a registered trademark of Eutelsat

System Diagram



1	4 to 1 DiSEqC 1.0 switch
2	RF cables
3	23mm to 40mm ring adaptor
4	Multiconnect LNBs
5	LNB inner block
6	Inner block bolt
7	Extender (long / short)
8	Spacer
9	Screw (long / short)
10	Multifeed arc bracket
11	Switch mounting arm

Available MultiConnect LNBs & Kits:

IDLB-SINL20-MULTI-0PP - MultiConnect Single
IDLB-TWNL20-MULTI-0PP - MultiConnect Twin
IDLB-QUDL20-MULTI-0PP - MultiConnect Quad
IDLB-QUTL20-MULTI-0PP - MultiConnect Quattro

IDLB-SET01-MULTI-STP - Base kit for installing up to 4 Single or Twin MultiConnect LNBs on universal dish antennas
IDLB-SET02-MULTI-QQP - Expansion kit for installations with up to 4 MultiConnect Quad or Quattro LNBs