

INFORMATION OF MANUFACTURER

Address :

Telephone :
Fax :
Web :
E-mail :

SERVICE CENTRE

Address :

Telephone :
Fax :

PRODUCTS

MODEL :
TRADEMARK :
BANDROL NO :
DATE - PLACE :
MAX. REPAIRING TIME : 20 working days
PERIOD OF GUARANTEE : 2 years

SELLER COMPANY

SELLER COMPANY :
ADDRESS :
PRODUCT'S TRADEMARK :
PRODUCT'S SERIAL NO :
INVOICE NO :
INVOICE DATE :
SALE DATE :

SELLER COMPANY

DATE SIGNATURE

STAMP CUSTOMER'S NAME

USER MANUAL
17 SERIES

CASCADABLE
MULTISWITCH

			1708	1712	1716	1724	1732
Inputs			16 SAT + 1 TERR				
Subscriber Outputs			8	12	16	24	32
Frequency Range	TERR SAT	MHz	47 - 870 950 - 2150				
Subscriber Insertion gain	TERR SAT	dB	-3 ± 2 +3 ± 2	-5 ± 2 +2 ± 2	-5 ± 2 +2 ± 2	-5 ± 2 +1 ± 2	-5 ± 2 +1 ± 2
Cascade Insertion gain	TERR SAT	dB	-4 ± 1 -2 ± 1	-4 ± 1 -2 ± 1	-4 ± 1 -3 ± 1	-4 ± 1 -4 ± 1	-4 ± 1 -5 ± 2
Isolation	SAT-SAT SAT-TERR OUT-OUT	dB	>34 >36 >34	>34 >36 >34	>33 >37 >34	>33 >36 >34	>33 >37 >34
Max. output level (Subscriber) TERR SAT		dBµV	85 92				
Sat. and polarity selection			DiSEqC 2.0 / 13-18 Vdc 0-22 KHz				
Max. current consumption (without LNB)		mA	150			300	
Operating temp. range		°C	-10 to 40				
Packing dimensions		mm	135x330x45	165x330x45	195x330x45	280x330x45	330x330x45
Weight		Gr	0,78	0,89	1,25	1,38	1,66

FINITE
MULTISWITCHES

			17/08	17/12	17/16	17/24	17/32
Inputs			16 SAT + 1 TERR				
Subscriber Outputs			8	12	16	24	32
Frequency Range	TERR SAT	MHz	47 - 870 950 - 2150				
Subscriber Insertion gain	TERR SAT	dB	-5 ± 2 +3 ± 2	-5 ± 2 +2 ± 2	-5 ± 2 +2 ± 2	-5 ± 2 +1 ± 2	-5 ± 2 +1 ± 2
Isolation	SAT-SAT SAT-TERR OUT-OUT	dB	>34 >36 >34	>34 >36 >34	>33 >37 >34	>33 >36 >34	>33 >37 >34
Max. output level	TERR SAT	dBµV	85 92				
Sat. and polarity selection			DiSEqC 2.0 / 13-18 Vdc 0-22 KHz				
Max. current consumption (without LNB)		mA	150			300	
Operating temp. range		°C	-10 to 40				
Packing dimensions		mm	125x330x45	150x330x45	185x330x45	265x330x45	315x330x45
Weight		Kg	0,69	0,86	0,99	1,30	1,57

AMPLIFIER

			17/17	17/30 D
Inputs			16 SAT + 1 TERR	
Outputs			16 SAT + 1 TERR	16x2 SAT+1x2 TERR
Frequency Range	TERR SAT	MHz	47 - 870 950 - 2150	
Insertion gain	TERR SAT	dB	-1±1 22 ±2	-1±1 25 ±2
Tilt		dB	4 ±1	4 +8 adj
Isolation	SAT-SAT SAT-TERR	dB	>33 >50	>33 >50
Max. output level (Ter.-60 dBIM3, SAT -35dB IM3)	TERR SAT	dBµv	120 110	120 110
Power supply			18V 2.5A 100-240VAC 1.3A	
Operating temp. range		°C	-10 to 40	
Packing dimensions		mm	150 x 500 x 50	122 x 400 x 57
Weight		Kg	1,51	1,90

A.INSTALLATION DIAGRAM

a) Preparing Cables

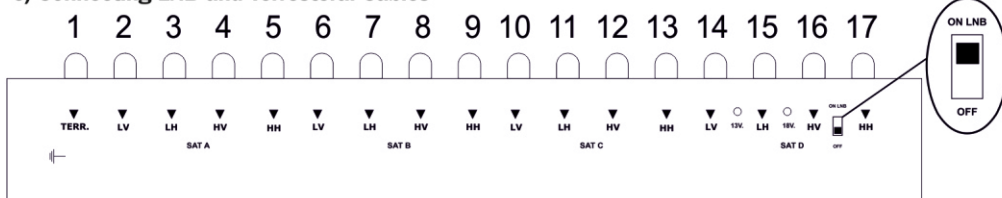
All input/output cables are finished with F-Connector.

b) Fixing Multiswitch

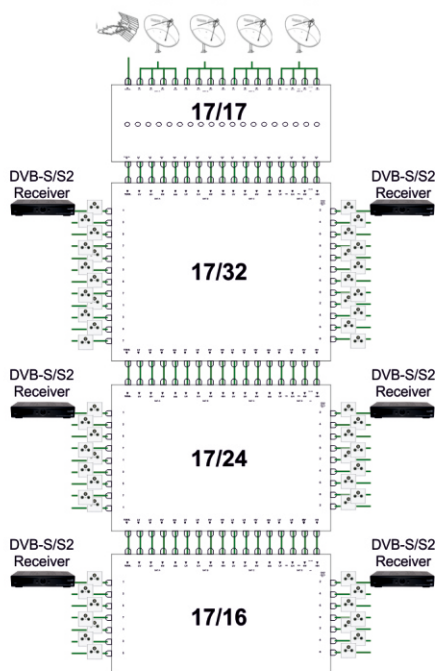
Multiswitch has 4 handgrips connecting on the corners.

Before multiswitch is worked, it is suggested to fix on a wall.

c) Connecting LNB and Terrestrial Cables



Multiswitches support Quad and Quattro LNB. Also it has LNB power on/off control switch.



1- Terrestrial (DVB-T & DVB-C)	TERR.
2- SAT A VL (Vertical low - 13V)	DISEqC A
3- SAT A HL (Horizontal low - 18V)	DISEqC A
4- SAT A VH (Vertical high - 13V+22KHz)	DISEqC A
5- SAT A HH (Horizontal high - 18V+22KHz)	DISEqC A
6- SAT B VL (Vertical low - 13V)	DISEqC B
7- SAT B HL (Horizontal low - 18V)	DISEqC B
8- SAT B VH (Vertical high - 13V+22KHz)	DISEqC B
9- SAT B HH (Horizontal high - 18V+22KHz)	DISEqC B
10- SAT C VL (Vertical low - 13V)	DISEqC C
11- SAT C HL (Horizontal low - 18V)	DISEqC C
12- SAT C VH (Vertical high - 13V+22KHz)	DISEqC C
13- SAT C HH (Horizontal high - 18V+22KHz)	DISEqC C
14- SAT D VL (Vertical low - 13V)	DISEqC D
15- SAT D HL (Horizontal low - 18V)	DISEqC D
16- SAT D VH (Vertical high - 13V+22KHz)	DISEqC D
17- SAT D HH (Horizontal high - 18V+22KHz)	DISEqC D

d) Making Subscriber Connection

Subscriber cables should be connected outputs on the left and right side of multiswitches. It is suggested that the maximum length of Subscriber cables should be 100 meter. Subscriber indicators will light up when the receivers are connected. All subscribers have portlock options. Each Sat. inputs can be blocked by portlock device. The working without diseqc is directed SAT A also it can be directed any of Sat. by portlock device.

B.TECHNICAL INFORMATION

a)Power Supply

Type : SMPS
Input voltage : 100 / 240VAC
Output voltage : 18V 2.5 Adc

b)Max. Output Signal Level of Subscribe

FM Stereo : 70dBuV
Terrestrial : 85dBuV
Satellite : 92dBuV

C.SECURITY & WARNINGS

1. After doing all controls use multiswitch.
2. Multiswitch is only designed for indoor and therefore it hasn't any resistance against water.
3. The place where multiswitch is installed;
 - * shouldn't be exposed to sun light
 - * shouldn't be next to or on heaters and fireplace.
 - * The products are affected by the electromagnetic signals. There must be enough length between multiswitches and other electronic devices.
 - * Against fire, flammable items shouldn't be next to or under multiswitches.
 - * It is not contact with water, in case cause breakdown or electric shock.
4. Please don't try to open multiswitch If someone who haven't any information about multiswitches, and not responsible person. Otherwise it can breakdown and duration of guarantee come to an end.
5. Please use buats and splitters which has only DC voltage transition.
6. Please pay attention to be not any contact between ground and wire inside of cable connector
7. Please be sure every one of LNB cable connect with correct input which is on multiswitch.
8. Please connect earthing terminal to ground connection

D.USAGE

1. The products support to work with QUATTRO,QUAD and universal LNB
2. The power supply should be used for Finite multiswitch. The cascade multiswitch takes their energy via the other multiswitch. If you need to use for cascade multiswitch you should turn off LNB power switch There must be a multiswitch which LNB power switch of multiswitch is on
3. You should use subscriber cables as short as possible. If you use RG6 quality cable the length of cable should be less than 100 meters. If you need use cable more than 100m you should use Rg11 quality cable.
4. There is an amplifier on terrestrial input. When you use the Terr. input, you should care Terr. input signal level.
5. Please get out power supplies from plug if you make changing cables on multiswitch on working system.

E. TRANSPORTATION & FREIGHT

The products transport and store boxes with which is inside cartons. Please pay attention not to get wet and save it against strokes.

F.Warranty Terms

- 1-The guarantee is 2 years from purchasing or date on guarantee documentation with manufacturing stamp
- 2-All items of goods are in guarantee
- 3-If the product breaks down in period of guarantee we add the time which pass over the during the repair. This time can be max.20 working days and It starts with handing over to sale office, to exporting or importing company
- 4-If the product breaks down in period of guarantee by wrong assembly, wrong installation or any component It will be repaired without charging any fee. If the period of repair pass 10 working day The another product is given to use instead breakdown until repairing.
- 5-The product can be changed by new one if there is following causes
 - 4 times in a year after beginning of guarantee or 6 times in period of guarantee
 - the repairing time is more than 20 guarantee
 - The company report which is manufacture, sales office, importing or exporting company says that the repairing is not possible
- 6- If the product is broken down by not using or installation under user manual condition , If there is no warranty label or It is damaged, If the product is damaged or fallen down, contacted with water It is not in the guarantee
- 7- If the product is beak down the costomer must declare the guarantee card with manufacture stamp, signature and purchasing date otherwise it will not be in guarantee. The invoice will not be apply instead the guarantee card
- 8- If the product is loaded illegal software the guarantee will end

G.Causes of losing the Guarantee

- 1-the serial number of product must be same on the guarantee card and there must be no changing or damage on guarantee card
- 2-the product must be repaired by responsible person for the guarantee to be valid
- 3-The product will be out of guarantee if there is following causes
 - If the product is connected to another device which is not defined by user manual
 - breakdown caused by main electricity
 - breakdown caused by transport
 - breakdown caused by misuse
 - breakdown caused by natural disaster In this cases the product will be repaired by charging a repair fee
- 4-The sales office, importing and exporting company are responsible to fill the guarantee card and the invoice and guarantee card must include same the date and serial number