



User Manual

dcCSS/dSCR Multiswitch 9731



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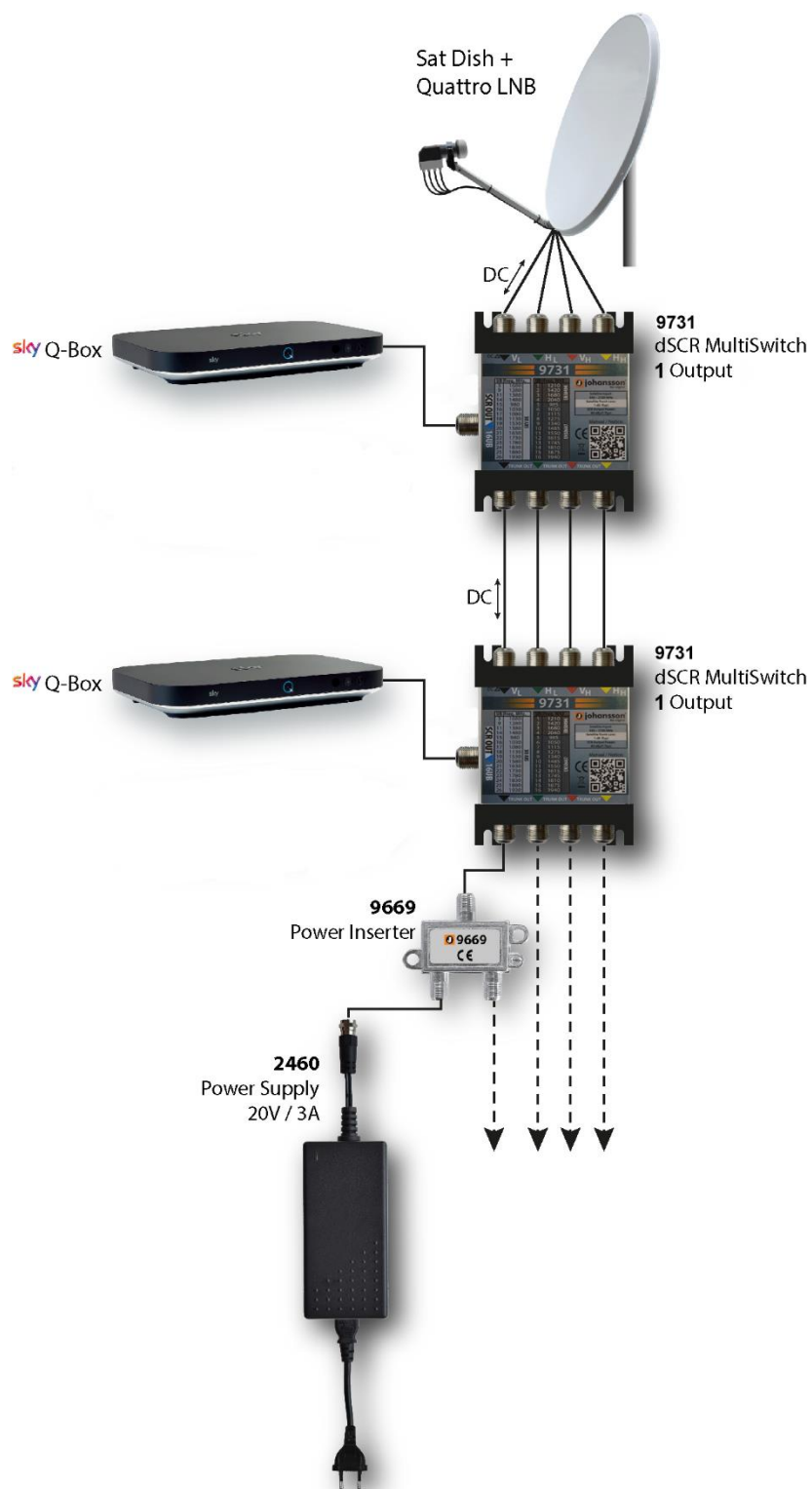
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1. INSTALLATION OF THE HARDWARE



2. CONFIGURATION OF THE MODULE

Installation Mode

The device starts up in installation mode to check the equipment functionality and the correct installation. In this mode the automatic gain control is frozen (commands for activating the AGC are required). The multiswitch switches to SCR/CSS mode upon receiving a DiSEqC message.

To activate one or more of the UBs a proper DiSEqC message should be received.

The installation mode starts up with the following 2 transponders active (both output signals are having a fixed gain):

- Transponder 58 (Frequency: 11880 Vertical) placed in output IF 1281.
- Transponder 101 (Frequency: 12731 Horizontal) placed in output IF 2131.

CSS Mode

ONLY EN50494/SCR standard

For Installation with Legacy STB and PVR/MySKYHD SCR compatible:

- Max 4 User Bands (UB1 to UB4) available (as in the LNB SCR)
- Signalling DiSEqC 1.0

ONLY EN50607/dCSS standard

For NEW Installation of HMG:

- 12 User Bands for HMG in the range from UB5 to UB16
- Signalling DiSEqC 1.0 or 2.0

CONCURRENT EN50494/EN50607 standards

For existing MULTIVISION installations (Legacy STB/PVR SCR compatible), with main STB upgraded to Next Gen PVR/HMG:

- Max 4 User Bands (UB1 to UB4) available for current STB/PVR
- 12 User Bands for HMG in the range from UB5 to UB16
- Signalling DiSEqC 1.0 + signalling DiSEqC 2.0 in the same cable from LNB to apartment

SKY UK standard

For Installations with SKY Q-Box :

- 16 User bands in SCR mode
- Signalling DiSEqC 1.0 or 2.0

3. TECHNICAL SPECIFICATIONS

9731		
Trunk inputs	-	4
Trunk outputs	-	4
Frequency (MHz)	-	950 – 2150
Trunk loss	-	3 dB
dCSS/dSCR outputs	-	1
dCSS/dSCR output connector	-	75 Ohm F type (Female)
dCSS/dSCR UBs	-	16
dCSS/dSCR output level	-	85 dB μ V
Return loss	-	≥ 8 dB (Typ 12 dB)
Tap loss	-	Not applicable, AGC (automatic Gain control)
Band and polarity selection	-	DiSEqC 1.0 (unidirectional) DiSEqC 2.0 (bidirectional) Standard EN 50494 (SCD) Standard EN 50607 (SCD 2) SKY UK standard
Max DC current consumption	-	< 300 mA @ 13 Volt
Power supply	-	From STB, power inserter or trunk (VL)
Power inserter (2460+9669 available separately)	-	3A, 20V

UB index	UB center frequency (MHz)	UB default BW (MHz)		Usage
1	1210	46	EN50494	Legacy STB and PVR SCR compatible
2	1420	46	EN50494	
3	1680	46	EN50494	
4	2040	46	EN50494	
5	985	46	EN50607	HMG 12 tuners
6	1050	46	EN50607	
7	1115	46	EN50607	
8	1275	46	EN50607	
9	1340	46	EN50607	
10	1485	46	EN50607	
11	1550	46	EN50607	
12	1615	46	EN50607	
13	1745	46	EN50607	
14	1810	46	EN50607	
15	1875	46	EN50607	
16	1940	46	EN50607	

UB index	UB center frequency (MHz)	UB default BW (MHz)	
3	1680	46	SKY UK
9	1280	46	SKY UK
11	1380	46	SKY UK
14	1480	46	SKY UK
15	980	46	SKY UK
16	1030	46	SKY UK
17	1080	46	SKY UK
18	1130	46	SKY UK
19	1530	46	SKY UK
20	1580	46	SKY UK
21	1630	46	SKY UK
22	1730	46	SKY UK
23	1780	46	SKY UK
24	1830	46	SKY UK
25	1880	46	SKY UK
26	1930	46	SKY UK

4. SAFETY INSTRUCTIONS



Read these instructions carefully before connecting the unit



To prevent fire, short circuit or shock hazard:

- Do not expose the unit to rain or moisture.
- Install the unit in a dry location without infiltration or condensation of water.
- Do not expose it to dripping or splashing.
- Do not place objects filled with liquids, such as vases, on the apparatus.
- If any liquid should accidentally fall into the cabinet, disconnect the power plug.



To avoid any risk of overheating:

- Install the unit in a well aery location and keep a minimum distance of 15 cm around the apparatus for sufficient ventilation
- Do not place any items such as newspapers, table-cloths, curtains, on the unit that might cover the ventilation holes.
- Do not place any naked flame sources, such as lighted candles, on the apparatus
- Do not install the product in a dusty place
- Use the apparatus only in moderate climates (not in tropical climates)
- Respect the minimum and maximum temperature specifications



To avoid any risk of electrical shocks:

- Connect apparatus only to socket with protective earth connection.
- The mains plug shall remain readily operable
- Pull out power plug to make the different connections of cables
- To avoid electrical shock, do not open the housing of adapter.



Maintenance



Only use a dry soft cloth to clean the cabinet.



Do not use solvent



For repairing and servicing refer to qualified personnel.



Dispose according your local authority's recycling processes

5. CONDITIONS OF WARRANTY

Unitron N.V. warrants the product as being free from defects in material and workmanship for a period of 24 months starting from the date of production indicated on it. See note below.

If during this period of warranty the product proves defective, under normal use, due to defective materials or workmanship, Unitron N.V., at its sole option, will repair or replace the product. Return the product to your local dealer for reparation

THE WARRANTY IS APPLIED ONLY FOR DEFECTS IN MATERIAL AND WORKMANSHIP AND DOES NOT COVER DAMAGE RESULTING FROM:

- Misuse or use of the product out of its specifications.
- Installation or use in a manner inconsistent with the technical or safety standards in force in the country where the product is used
- Use of non-suitable accessories (power supply, adapters...).
- Installation in a defect system.
- External cause beyond the control of Unitron N.V. such as drop, accidents, lightning, water, fire, improper ventilation...

THE WARRANTY IS NOT APPLIED IF

- Production date or serial number on the product is illegible, altered, deleted or removed.
- The product has been opened or repaired by a non-authorized person.

NOTE

Date of production is YYWW format, example 1447 = year 2014 – week 47.
For the serial number barcodes, the date corresponds to the 4 first numbers



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