



RS816 & RS88 Remote Switches

RC816 RC88 RC812 RC84 Handsets

The Nortek Remote Switch family moves into a new generation with the RS816 & RS88 sixteen & eight camera remote switches. Sixteen cameras can be switched to up to four monitors completely independently.

This system finds applications in installations where personnel are required to be able to view some or all of the security systems' video channels without having access to the recording equipment. Covert cameras can be locked out by setting of the control handset or made inaccessible through using a handset with less channels than the remote switch.

Designed for ease of installation, the RS8xx family of switches can be assembled into a working system very quickly through the use of plug & socket connections for every interface. Cameras & monitors are BNC connected, the controller handsets are CAT5 with RJ45 sockets, power is 12Vdc connected through 3.5mm jack on the RS box, the controller handsets are powered through the control cable.

Cabling is reduced by sending the monitor video down the remote control handset CAT5 cable, converting back to coax in the handset for a short run to the monitor. BNC video out from the remote switch is still included when the CAT5 option is used.

Backward compatibility is ensured because the RS816 family parts are designed to inter-operate with the RS616 family – old and new RS switches & handsets can be mixed so that old installations can be supported with the new parts. Cabling fitted for the RS616 family can be re-used because the connections offered at the RJ45 sockets of the RS remote switch & RC remote control are repeated as terminal blocks at both ends of the system.

- ❑ PLUG & PLAY INSTALLATION
- ❑ COMPLETE BACKWARD COMPATIBILITY WITH RS616 FAMILY
- ❑ CAT5 CABLING TO HANDSETS
- ❑ 16 OR 8 CAMERAS
- ❑ 1 OR 4 MONITORS
- ❑ VIDEO CAT5 OPTION – CONVERT TO COAX BALUN IN HANDSET
- ❑ HANDSETS FOR 4, 8, 12, OR 16 CAMERAS – MANUAL OR OPERATOR SET AUTO SEQUENCE
- ❑ 4 ALARMS PER HANDSET ASSIGNABLE TO ANY 4 CAMERAS
- ❑ HANDSET TO SWITCH RANGE UP TO 150m

Specifications

Cameras	RS816	16	BNC 75Ω / High impedance - jumper settable
	RS88	8 Loop Through	BNC 75Ω / High impedance - jumper settable
Monitors	RS816 RS88	4	BNC / CAT5 (option)
(one per handset)	RS816/1 RS88/1	1	BNC & CAT5
Cable Lengths	Remote switch to handset		CAT5 150m (with or without video on CAT5)
	Remote switch to monitor		Coax 150m
	Handset to monitor		Coax 10m (required for CAT5 video only)
Power Supply	12Vdc 500mA	12Vdc powers remote switch, handsets are powered from the switch	
Dimensions –	Handset (RC8xx)	158	115 40 max
	Switch (RS8xx)	350	118 37
Finish	Handset (RC8xx)	Steel – textured powder coat with wipe clean membrane over buttons	
	Switch (RS8xx)	Steel – textured powder coat lid / zintec base	

Selection Chart – Remote Switches

Both 8 & 16 camera remote switches can operate 4 completely independent monitors, all monitors can view the same or different cameras.

Camera Inputs		
RS88	8	Loop through – 16 BNCs, 75Ω termination selectable with jumpers
RS816	16	16 BNCs, 75Ω termination selectable with jumpers
Options:		
CAT5 Video	RS88CAT5, RS816CAT5	
	As the above parts with an integrated Coax – CAT5 balun allowing video to be sent down the RC control cable – fitted in addition to video out BNCs.	
Single Monitor	RS88/1, RS816/1	
	Remote switch with only one monitor output for smaller installations – CAT5 option above is included.	

Selection Chart – Remote Control Handsets

Each monitor requires one controller handset. All of the remote control handsets (RC8xx) can be used with any of the remote switch units, if the RC used has less channels than the RS then only the lower numbered cameras will be selectable.

Cameras Selectable		
RC84	4	Manual channel selection & Auto channel cycle with operator set time period. Any single channel may be locked out by the installer using a secret setting key to hide unused or covert cameras.
RC88	8	
RC812	12	
RC816	16	
Options:		
CAT5 Video	RC84CAT5, RC88CAT5, RC812CAT5, RC816CAT5	
	As the above parts with an integrated CAT5 – Coax balun allowing video to be sent down the RC control cable, then out of the RC to the monitor on coax from BNC fitted on the RC.	
Alarms	RC84A, RC88A, RC812A, RC816A	
	As the above standard parts with 4 alarm inputs & switching relay, connection is through a second RJ45 socket. The 4 alarms can be software assigned to any of the selectable cameras.	

Backward Compatibility

This range supersedes the Nortek RS616 family of products. Backward compatibility has been maintained in two ways:

1. By ensuring that the new and old parts inter-operate and can be mixed on the same installation,
2. By reproducing the terminal block connections for the RS-RC control cable so that the RJ45 socket for the control cable is optional and the previously six core screened control cable can be re-used.

Nortek Electronics has a policy of continuous development and reserves the right to alter specifications.