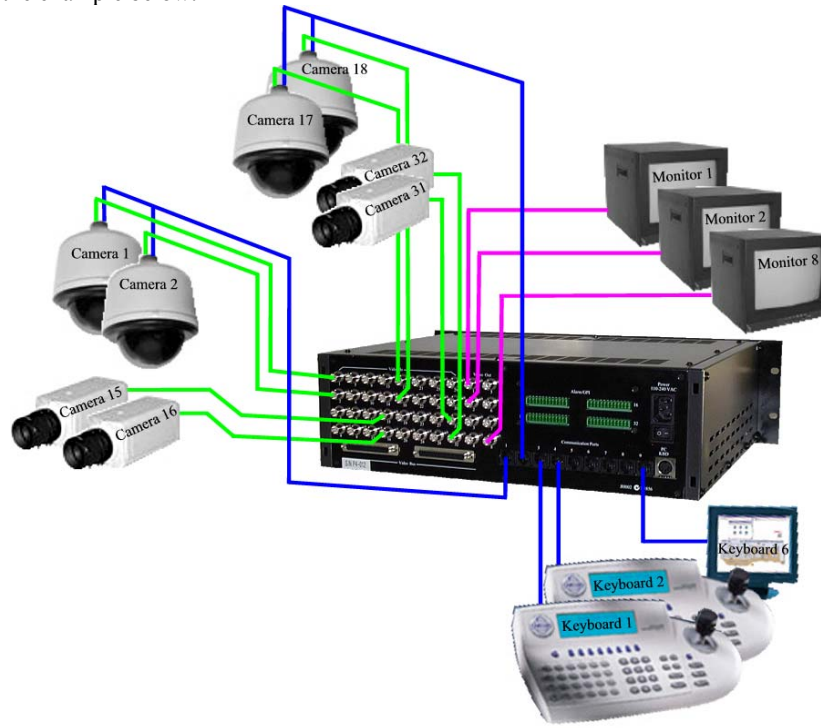


JH2000 manufacture default configuration.

The JH2000 switching controller is ready to operate using its default parameters. The system is set up to operate in a basic, stand-alone configuration that supports the Pacom 2030/Pelco 9760KBD keyboards and Pelco camera decoders as in the example below.



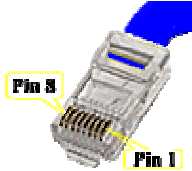
The default parameters are set as follows:

1. Cameras are numbered (logical numbers) from 1 to 32 (matching their physical numbers - connections).
2. Camera's identification text is set to be displayed as "Cam 1", "Cam 2", etc up to "Cam 32".
3. First sixteen cameras (cameras 1 to 16) can be controlled through communication port 1.
4. Second sixteen cameras (cameras 17 to 32) can be controlled through communication port 2.
5. Communication ports 1 and 2 are set to operate as RS422 with a baud rate of 4800 and Even parity.
6. Monitors are numbered (logical numbers) from 1 to 8 (matching their physical numbers - connections).
7. Monitor's identification text is set to be displayed as "Mon 1", "Mon 2", etc up to "Mon 8".
8. Communication ports (port 3 through 9) are set to accommodate operator's keyboards.
9. Communication ports 3 through to 8 are set to operate as RS422 with a baud rate of 4800 and Even parity.
10. Communication port 9 is set to operate as a RS232 with baud rate of 4800 and Even parity.
11. Camera's logical numbers, identification text, monitor's identification text and time & date messages will be displayed on each of the monitors.
12. The operators login PINs are defined as follows:
 PIN 1001 – Operator 1,
 PIN 1002 – Operator 2,
 etc up to
 PIN 1016 – Operator 16.
13. The keyboard's numbers are defined as follows:
 Keyboard No. 1 – for the unit attached to port 3,
 Keyboard No. 2 – for the unit attached to port 4,
 etc up to
 Keyboard No. 7 – for the unit attached to port 9.
14. All keyboards and operators have access and control over all the defined cameras and monitors.

Note: Any of the above parameters can be changed or modified at any time by the user.

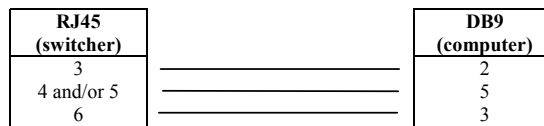
Interconnection notes

1. All switcher's video inputs and outputs impedance are 75 Ohms.
2. All video signals should be carried by the 75 Ohms coaxial cables terminated by BNC plugs.
3. Pin outs for all communication ports (RJ45 plug) are as follows:

Pin No.	Pin Definition	Pin Layout
1	Tx+	
2	Tx-	
3	Tx (RS232)	
4	Ground	
5	Ground	
6	Rx (RS232)	
7	Rx-	
8	Rx+	

RS485 – uses pin 1 and 2
 RS232 - uses pin 3, 4(5) and 6
 RS422 - uses pin 1, 2 and 7, 8
 All ports support RS232 and RS422, whereas only ports 7, 8 and 9 support RS485.

4. Camera control decoders/receivers could be connected to port 1 and/or 2. Pins 1 and 2 should be connected to the respective receive pins on the decoder unit. So the Tx+ pin from the port is connected to the Rx+ point and Tx- pin is connected to the Rx- point on the decoder unit. Please ensure that the communication standard and parameters match port definitions as described before.
5. Keyboards connected to the ports 3, 4, 5, 6, 7 and 8 utilise pins 1, 2, 7 and 8. Again, the corresponding signals (wiring) should be connected together as follows:
 Pin 1 (switcher's Tx+) with Rx+ on the keyboard,
 Pin 2 (switcher's Tx-) with Rx- on the keyboard,
 Pin 7 (switcher's Rx-) with Tx- on the keyboard and
 Pin 8 (switcher's Rx+) with Tx+ on the keyboard.
6. Port 9 (RS232) can be used to connect a PC based controlling program (eg. GUI). This port utilises pins 3, 4(5) and 6. As before the signal interaction has to be observed (Tx signal pin joined with Rx signal pin). Please ensure that the communication standard and parameters match the port definitions as described before. The RS232 standard requires ground connections as well.



Note:

Due to the undefined location of the system's components, all cables and connectors need to be provided by the system installer.