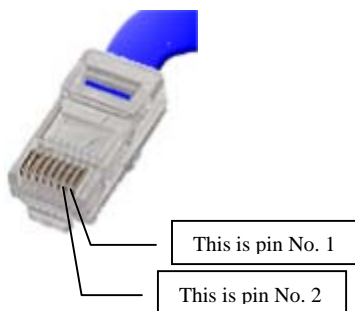


## JH2000 – Frame Network set up

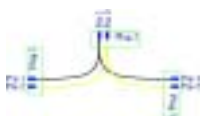
In our example, we will configure two units working in the cross-framing configuration. The video signal will be routed between units using four tie lines. This description is intended as a sample demonstrating basic steps required for successful set up of the system. These steps should be followed for any other system configuration.

### 1. Data connection

The RS485 communication standard is used to route data between all networked units. This is the only standard that can be used for that purpose. The RS485 is specified to operate over two wires in a half duplex mode. The ports 7, 8 and 9 of the JH2000 can be selected to connect system frames. Please reference to the drawing below for designation of the pins on the RJ45 plug. Only pin 1 and 2 are used for our interconnection.



All pins marked as No. 1 should be joined together and pins No. 2 should again form single path (see sketch below).



In example below, units are connected using communication ports No. 7.



### 2. Video tie lines connection

In our example we connected four tie lines to pass video from one frame to another. The video cables are connected from “Video Out” on one frame to the “Video In” on the other frame. The video signal will flow from the video outputs to the video inputs. Therefore, to be able to see pictures from all cameras in the system (cameras attached to both frames) operator’s monitors have to be connected to the frame where the tie lines are connected to the video inputs.



In our example, the tie lines are connected as follow.

Video Out 5		Video In 1
Video Out 6		Video In 2
Video Out 7		Video In 3
Video Out 8		Video In 4

The units are numbered as Frame 12 - left hand side unit, and Frame 11 – right hand side unit (operator’s monitors are attached to the Frame 11).

### 3. System configuration

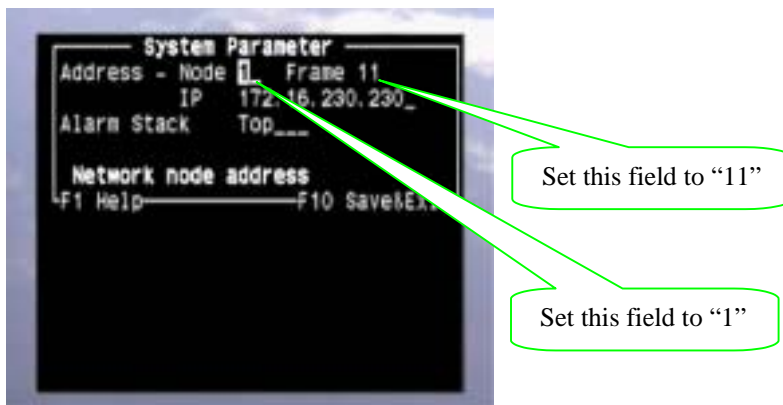
Four sets of the configuration parameters have to be set up. Namely; System parameters, Port parameters, Monitor parameters and Camera parameters.

The Monitors parameters has to be adjusted on Frame 12 when Camera parameters on Frame 11. Two remaining sets have to be adjusted on both frames.

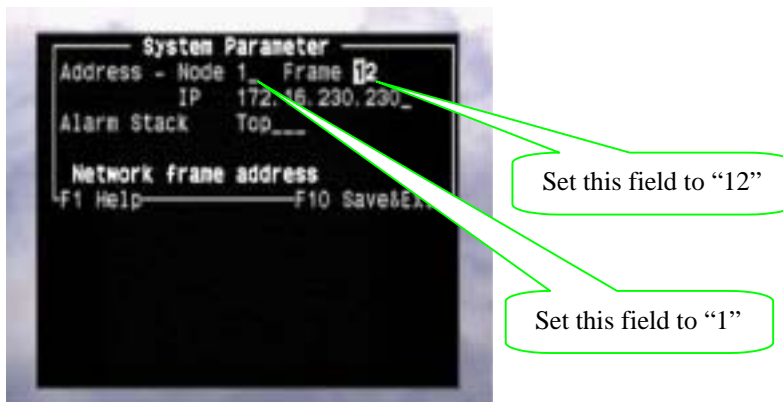
After parameters have been adjusted, press F10 to save new values.

#### 3.1. System parameters

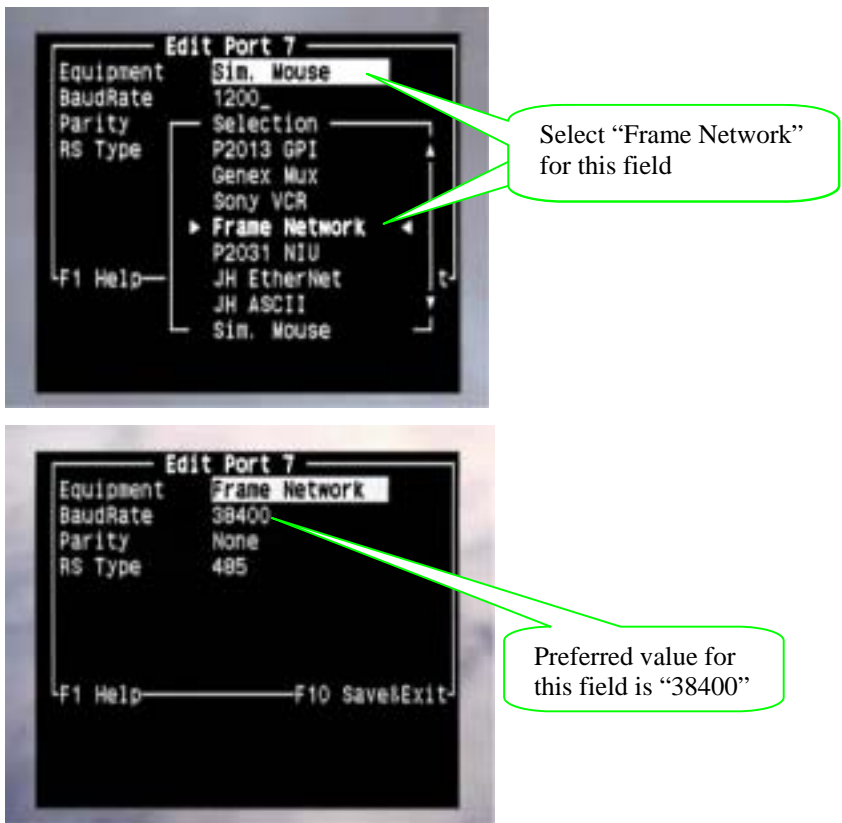
##### 3.1.1. For frame 11



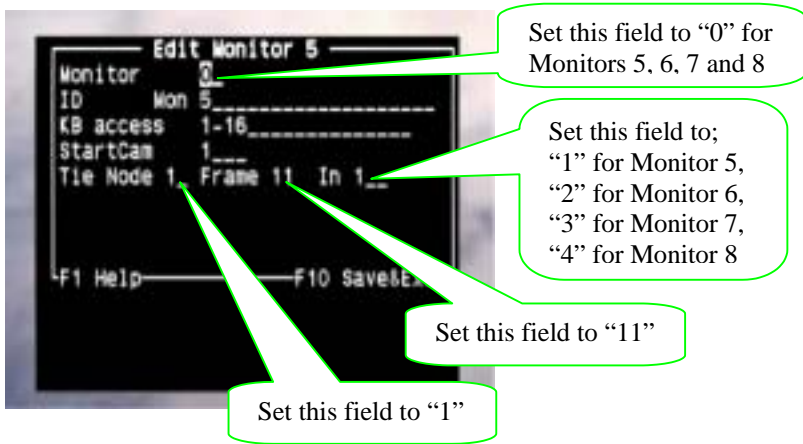
##### 3.1.2. For frame 12



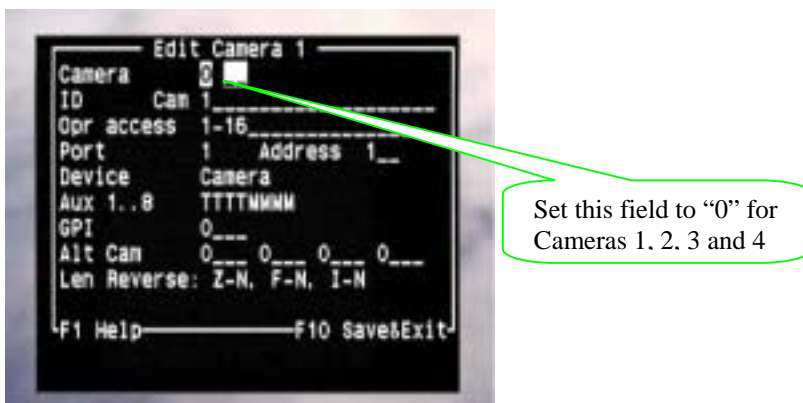
3.2. Port parameters – Frame 11 & 12



3.3. Monitor parameters – Frame 12



3.4. Camera parameters – Frame 11



**4. Sample of other configurations**

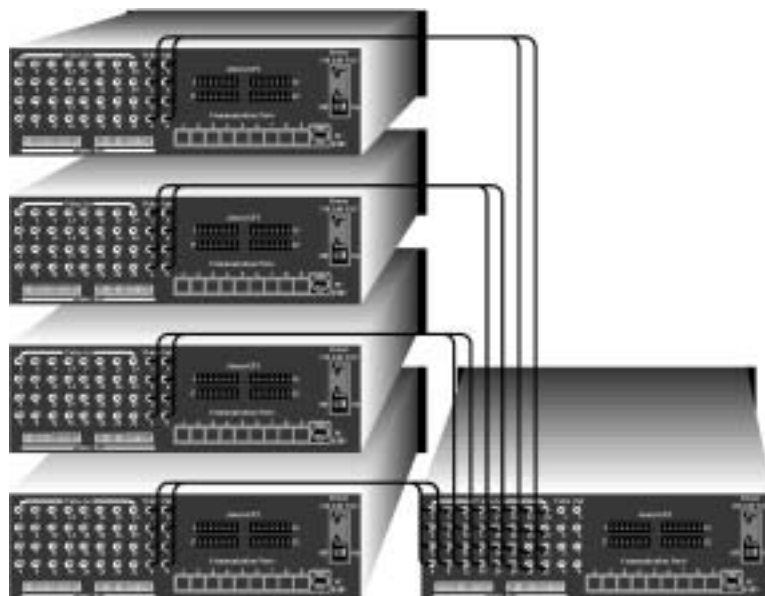
**4.1. Cross framing – 56 video inputs and 8 video outputs**



**4.2. Down framing – 32 video inputs and 32 video outputs**



**4.3. Cross framing – 128 video inputs and 8 video outputs**



**4.4. Cross and Down framing – 128 video inputs and 32 video outputs**

