The Intelligent Surveillance Solution

SCB-C31A

User Manual

Ver. 1.0.130726.00

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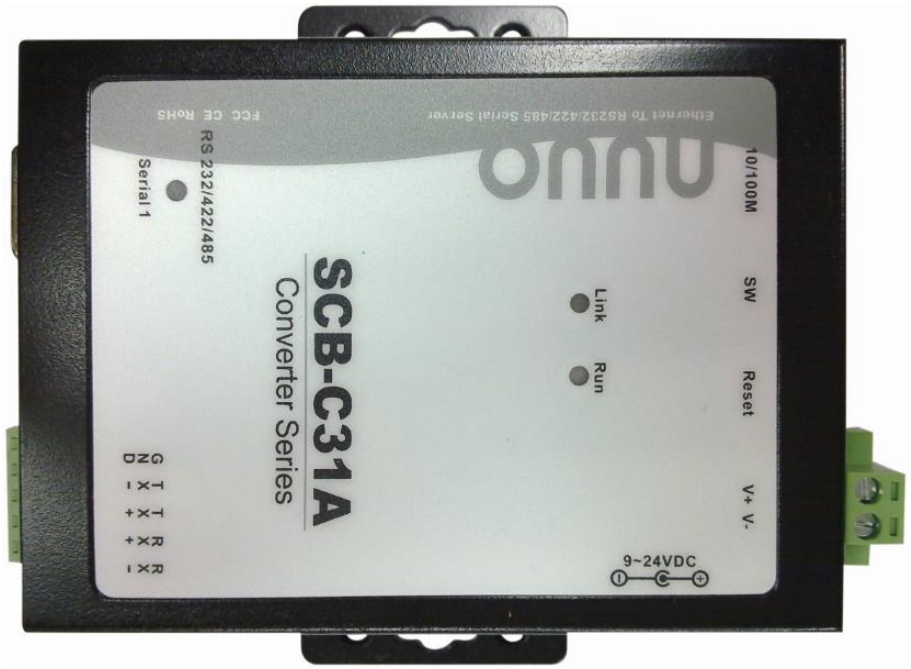
1.Introduction

C31A is an I/O converter to intermediate the communication between a surveillance server and multiple peripherals. It joins up all the major components in your surveillance network to deliver your prospective management and protection over your property.

This manual combs the hardware/software setup for C31A. Hardware-wise C31A needs box (C24/C26/C28), and software-wise the server relies on a piece of surveillance recording product, Mainconsole/NVRmini2/NVRsolo/Titan NVR, to bring all the peripherals under control.

Easy-to-mount and flexible in communication, C31A will be the pivot in your surveillance network. Thank you for choosing C31A.



1. Specifications

To apply C31A to your surveillance system, get to know it first. C31A is Ethernet-RS485 converter. Further, the C31A box can not be used for POS and converter at the same time.

2. Network Deployment Diagram

This diagram shows how server, converter (C31A), I/O box (C24/C26/C28) are deployed within the surveillance network to work. Take NVRmini2 structure for example:

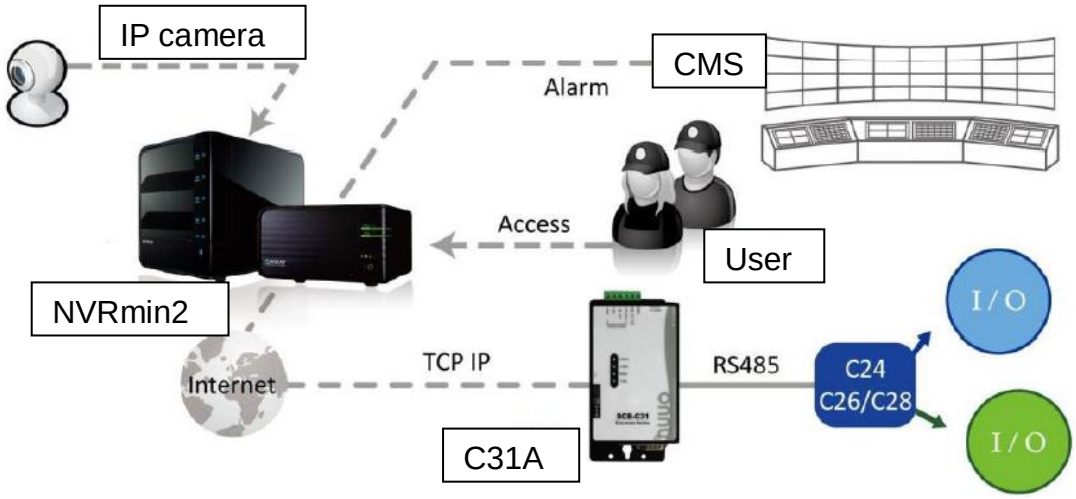


Fig. 1. Network Deployment Diagram

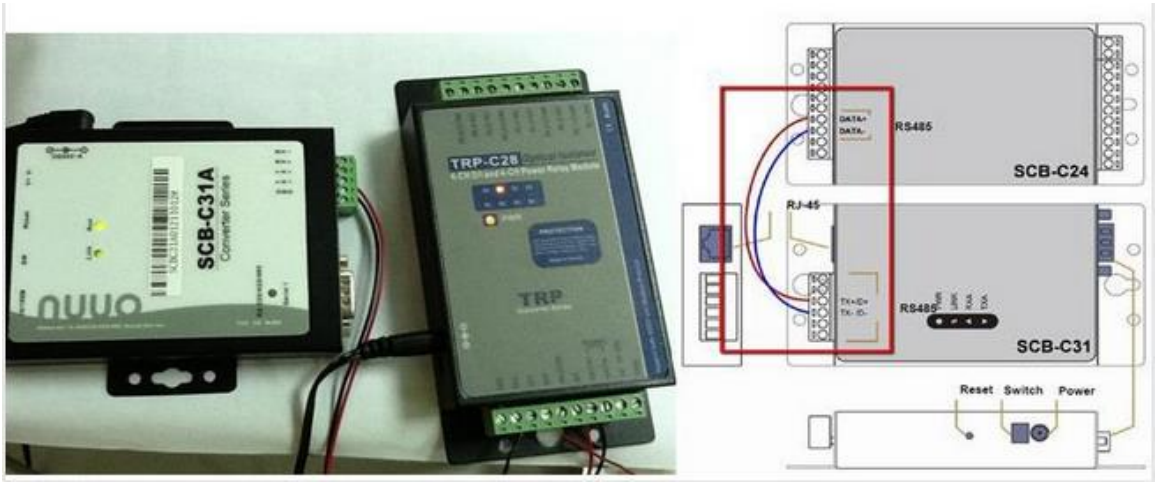
3. Hardware Setup

This chapter combs through the necessary setup for the major components in the surveillance network including:

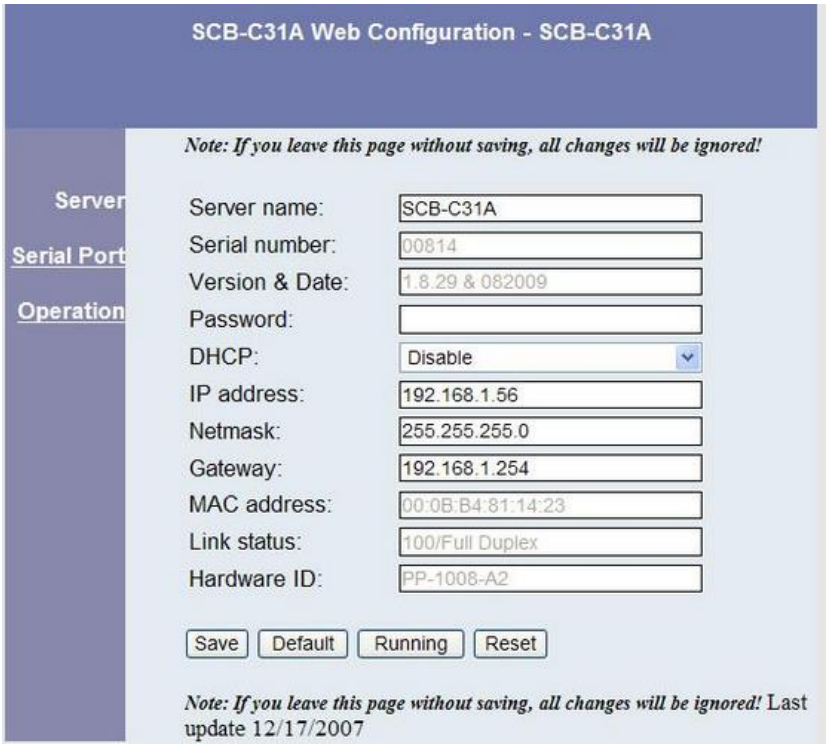
1. peripherals,
2. converter C31A,
3. I/O box C24/C26/C28,
4. Windows-based server PC.

3.1 Connect C31A to NVRmini2

Here take C31A and NVRmini2 as example:
Step 1: Connect SCB-C31A with power source and with internet by RJ45 LAN cable.
Step 2: Connect I/O Box with power source.
Step 3: Connect SCB-C31 and I/O Box with cable, positive connection (TX+/D+ and DATA+) and negative connection (TX-/D- and DATA-).
Take SCB-C31A with I/O Box SCB-C28 for example as below:

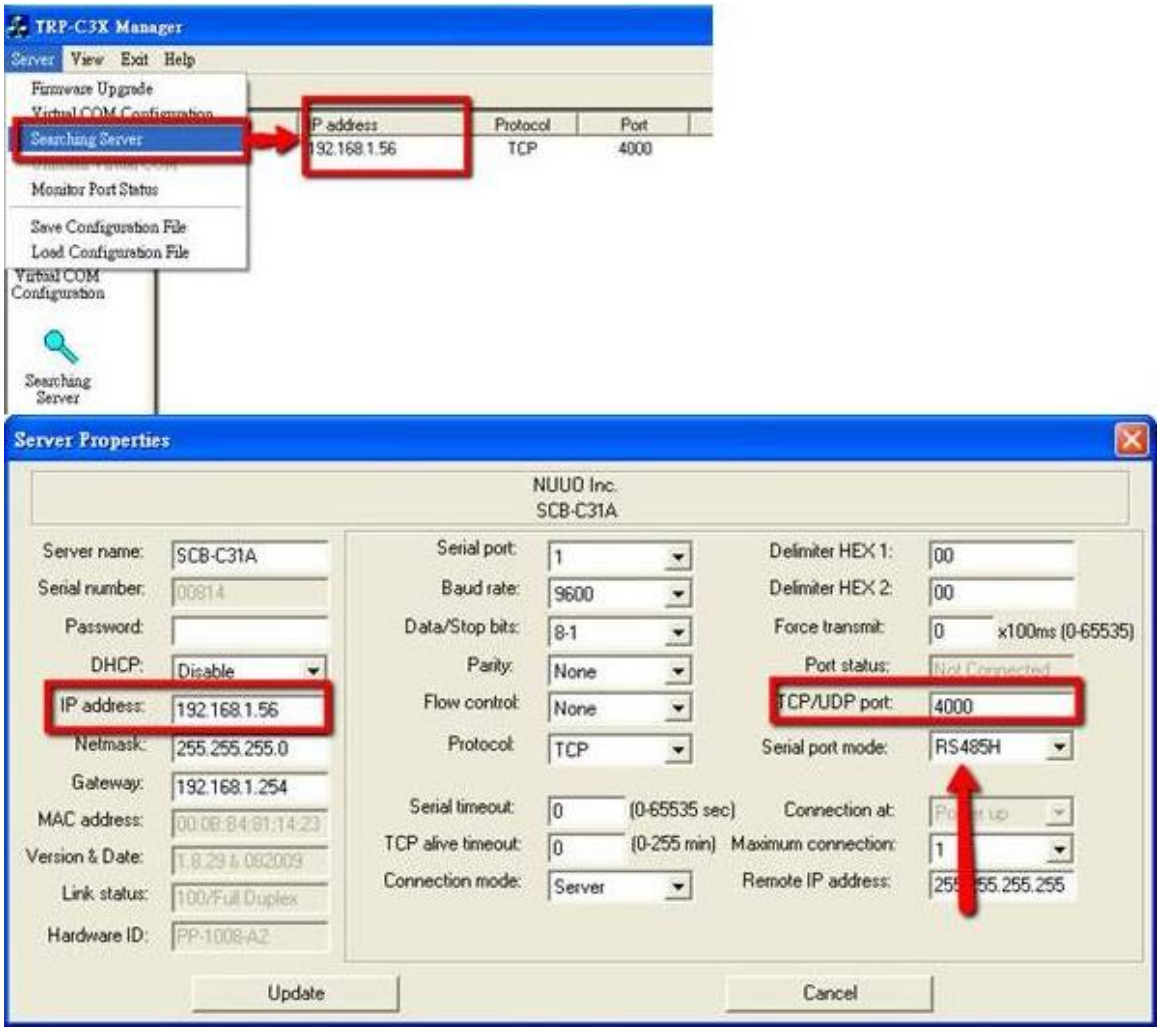


Step 4: Setup IP address and port of the C31A
Step 5: Open Internet Explorer to setup SCB-C31. The default IP address is 192.168.1.1.
Step 6: Setup IP address and port.



Note: If the IP has been changed, use TRP-C3X manager tool to search the device. To change the IP address or port…etc, double click on the device found and configure. The serial port mode must be RS485H

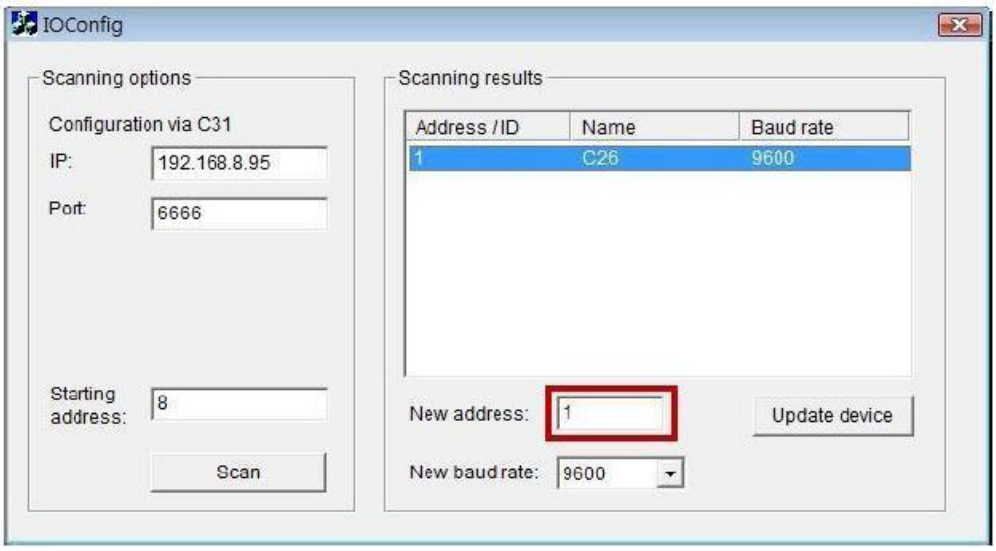
- C31A search tool is downloadable at **www.nuuo.com** > **Download**



Step 7: Setup address/ID of the I/O box

Execute C31A Config tool (IOConfig.exe), type in the IP address and port of SCB-C31A, and click the Scan button. When the I/O Box is discovered, click on the item and change the ID from the New Address field. Click the Update device button to activate the settings.

- C31A Config tool is downloadable at www.nuuo.com > **Download**



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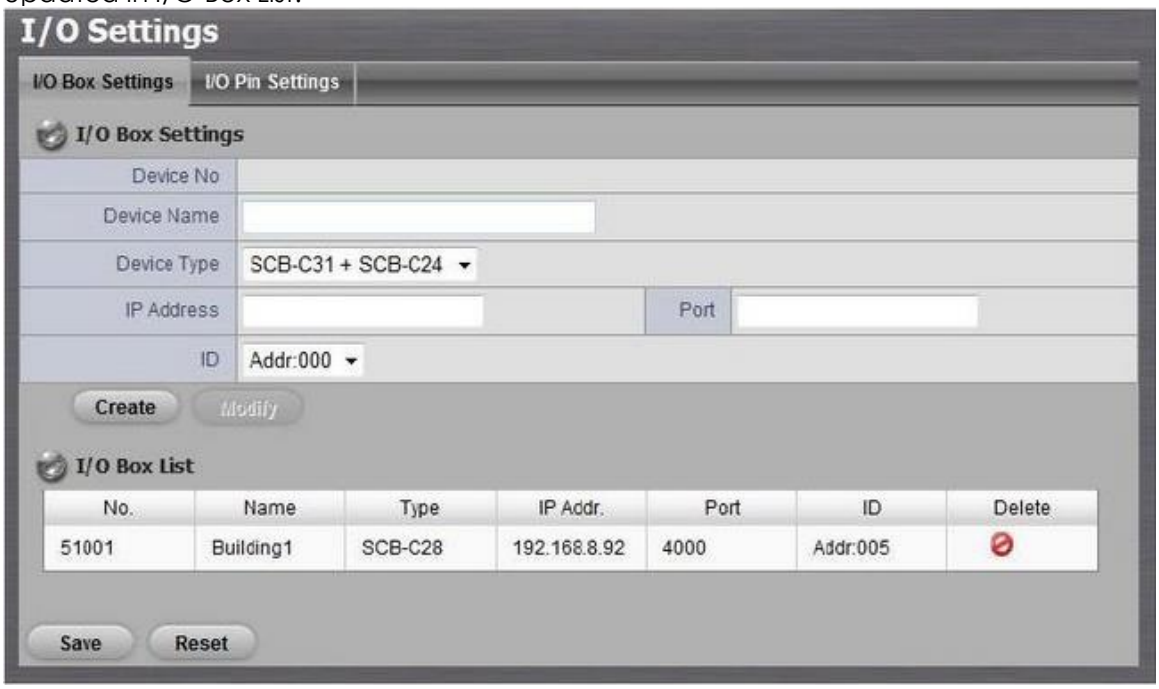
Step 8: Setup on NVRmini web setting page

Step 9: Open Internet Explorer and log in to the NVRmini 2.

Step 10: Click POS & I/O -> I/O Settings -> I/O Box Settings.

Step 11: Enter the information of C31A & I/O box. Click the Create button, and the information will be updated in I/O Box List.



3.2 Setup POS

Here take C31A and Mainconsole as example:

To connect Cash Register, Printer, and SCB-C31A POS data capture converter together, please follow below steps:

Step 1: Please refer the user manual to setup Cash Register and printer.

Step 2: Using a "Y-shape" DB-9 cable, one DB-9 female connect to POS system and one DB-9 male connect to the receipt printer Y-shape (provided by Printer vendor).

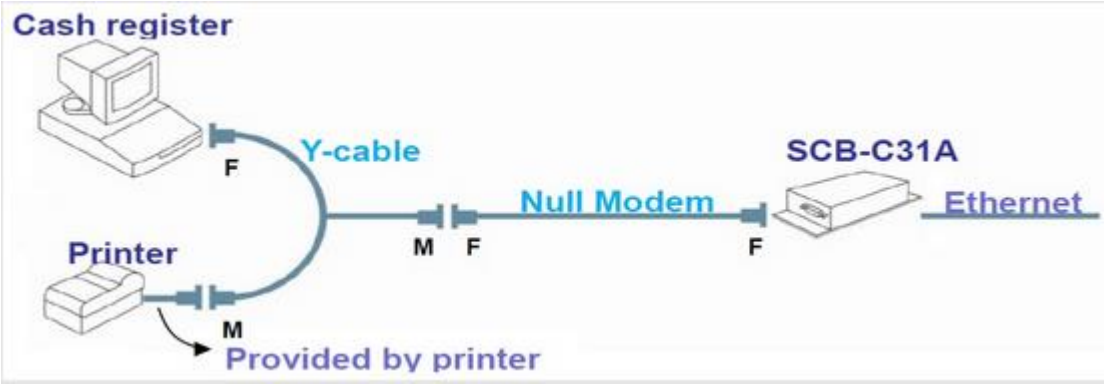
Step 3: Using another DB-9 female connect to SCB-C31A POS Data Capture R232/Ethernet converter with Null modem.

Note: There are two kinds of serial cable: Straight pass-through and Null-Modem.
The connection between SCB-C31 POS Data capture box and Y-cable must be null modem (in package).

Step 4: Check the system switch of the SCB-C31A is switched to OFF-OFF position.

Step 5: Connect SCB-C31A with power source.

Step 6: Connect SCB-C31A with internet port by RJ45 LAN cable.

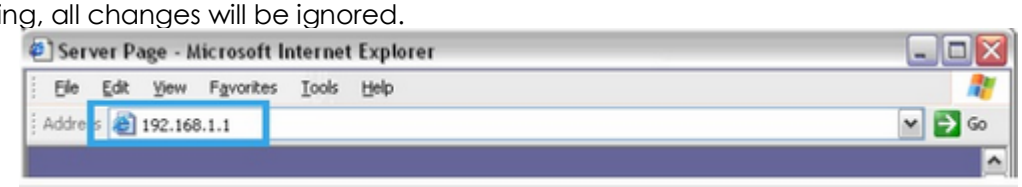


Software Installation – SCB-C31A

Step 1: Use IE-browser to setup SCB-C31A, the default IP address is 192.168.1.1

Step 2: Setup IP address and password in Server page, and click the Save button.

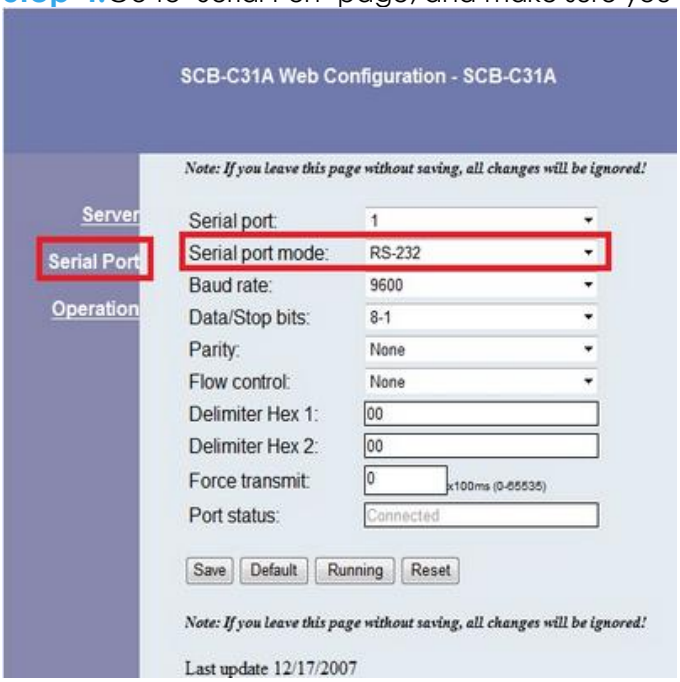
Note: Each time you switch the page of the web, please click Save at first. If you leave this page without saving, all changes will be ignored.



Step 3: Setup Password if needed. Password is only using to activate a security feature on the serial server. Once a password is entered it will be required to access the menu and make change of configuration when access.
Please write down the Serial number and MAC address, these two parameters are necessary when user forget your password.

Note: Please write down the Serial number and MAC address, these two parameters are necessary when user forget your password.

Step 4: Go to "Serial Port" page, and make sure you are using "RS-232" in "Serial port mode".

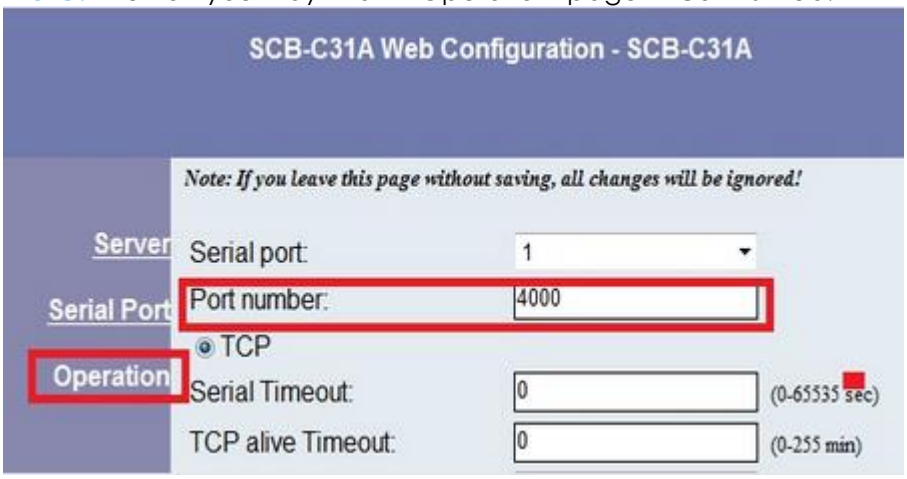


2. Mainconsole POS setup

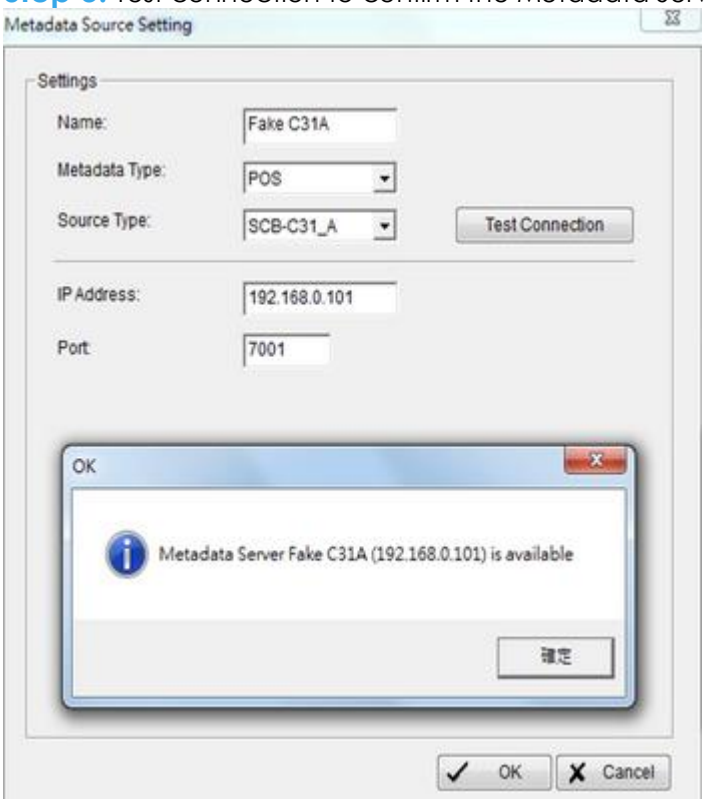
Step 1: Open Main Console -> General Settings -> Metadata Application -> Insert a new Metadata Type as POS and select the Source Type as SCB-C31A.

Step 2: Input the IP address (as same as the IP of Main console, local server) and the POS port.

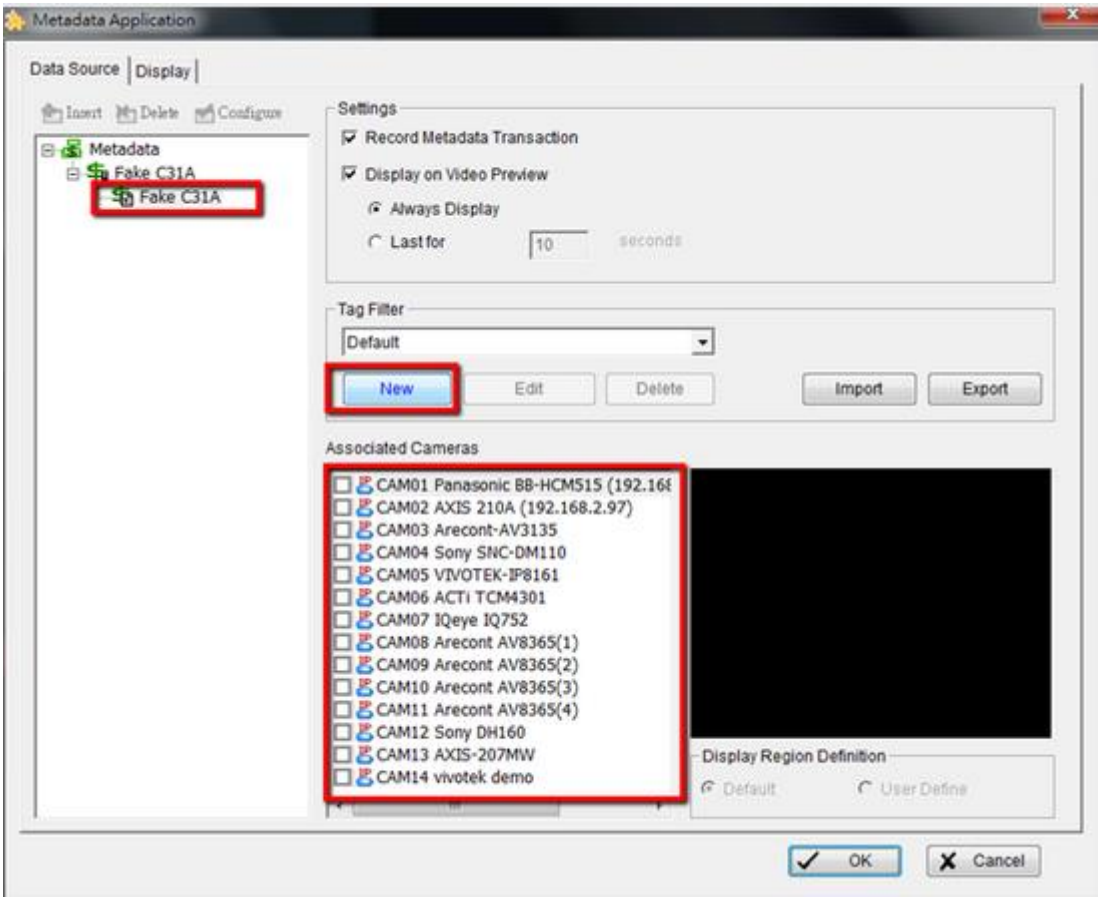
Note: The Port you may find in "Operation" page in C31A's web.



Step 3: Test connection to confirm the Metadata Server is available.

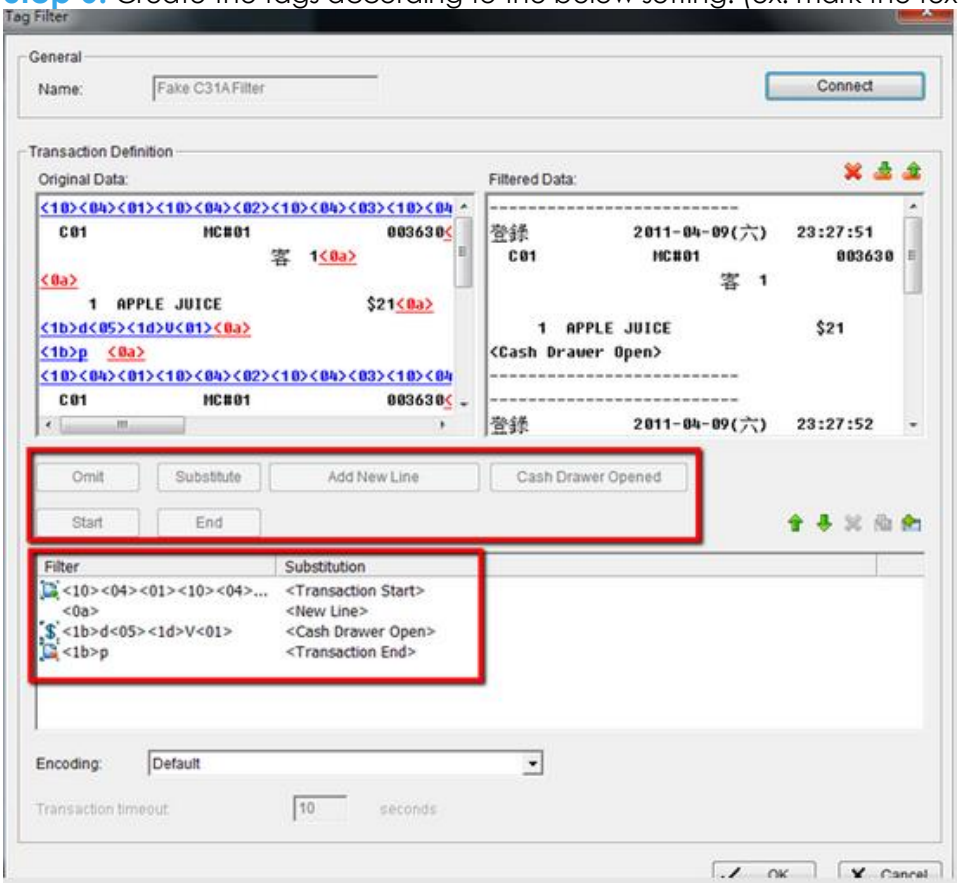


Step 4: Click "Fake C31A" and New a Tag Filter.



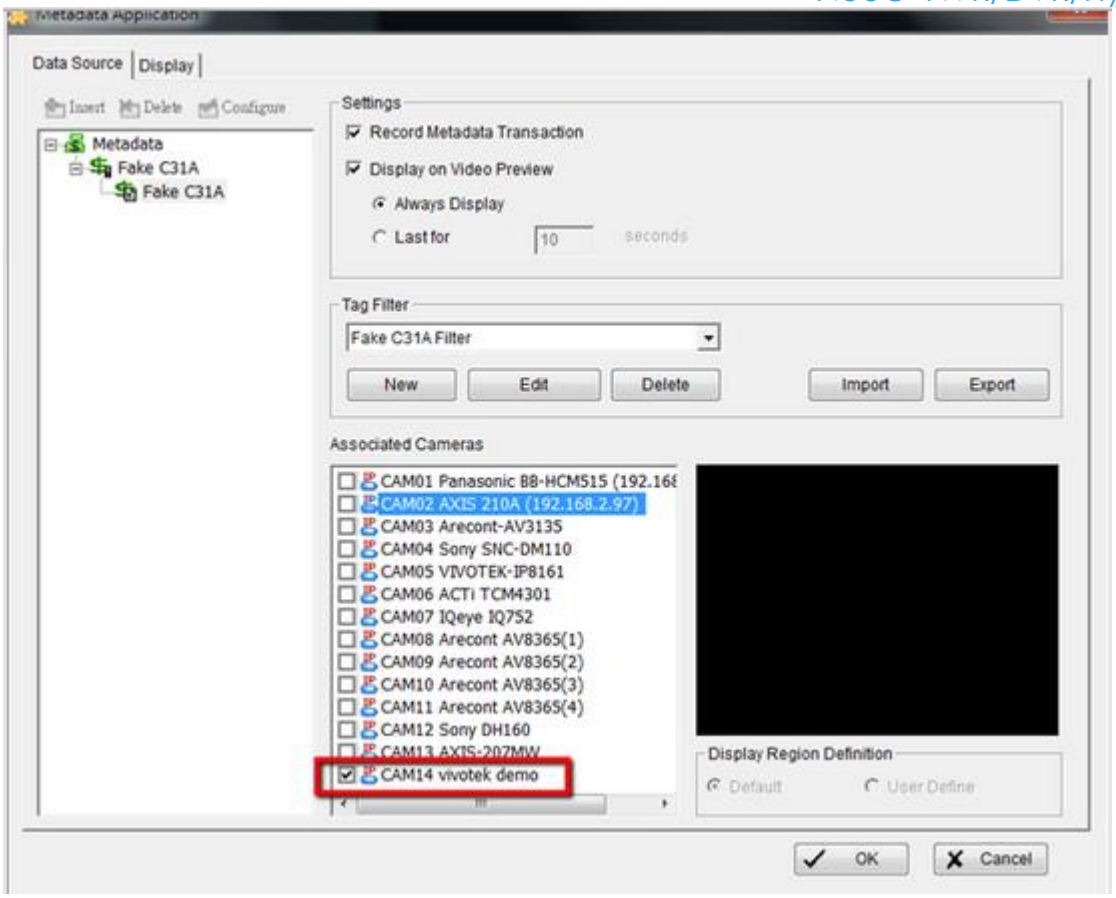
Step 5: Press connect and press disconnect once to receive the transaction data as a template from POS. (we need to make a tag filer according to the template transaction data)

Step 6: Create the tags according to the below setting. (ex: mark the text "<0a>" and set it as "New Line")



Step 7: Press ok to accomplish the tag setting.

Step 8: To associated cameras which would like to display the transaction data and press OK.



Step 9: Then you should be able to see POS data on associated camera channel.