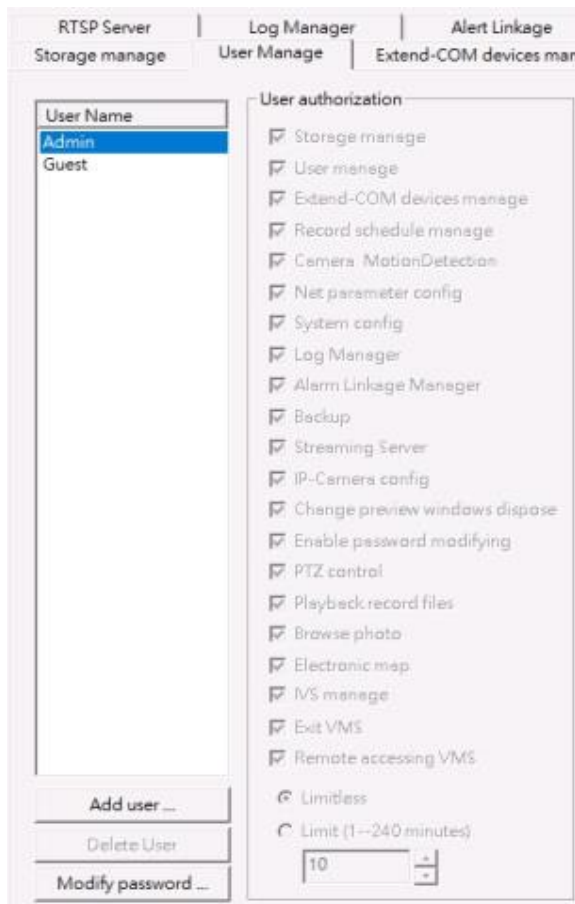1. Plugin Install Folder

   1.1 Copy the folder of '**MetadataModelNuThermal** includes the **MetadataModelNuThermal.dll** file to the Mainconsole's **PluginPack** folder.
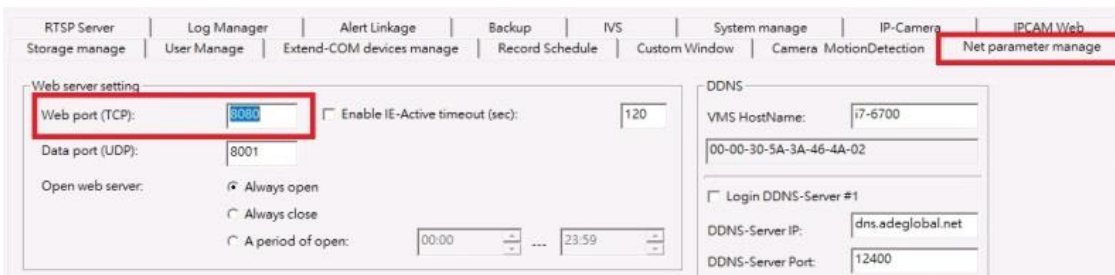
   Note that the **w32** and **x64** versions of Mainconsole and NuThermal Plugin must be matched.

2. 3rd Party Software Installation & Setup

   2.1 Set Username and Password for login (default is admin, password is blank)

   2.2 Set Web Service Port (default is 80, in this example it is changed to 8080)

   2.3 Verify 3rd Party Software installation: If 3rd Party Software is installed on 10.0.4.3 and the Web Port is 8080, enter the following URL in Chrome (or other browser):
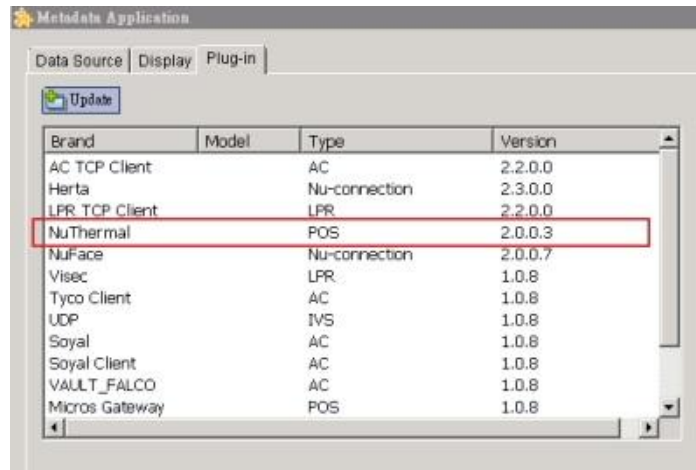
www.nuuo.com

http://10.0.4.3:8080/core.cgi?command=get_camera_list

Once key-in the account password (default is admin / blank), you can see the response text of 3rd Party Software on Chrome.

3. Set NuThermal Plugin

    3.1   In Metadata Application / Plug-in, you can see NuThermal, use POS License

www.nuuo.com

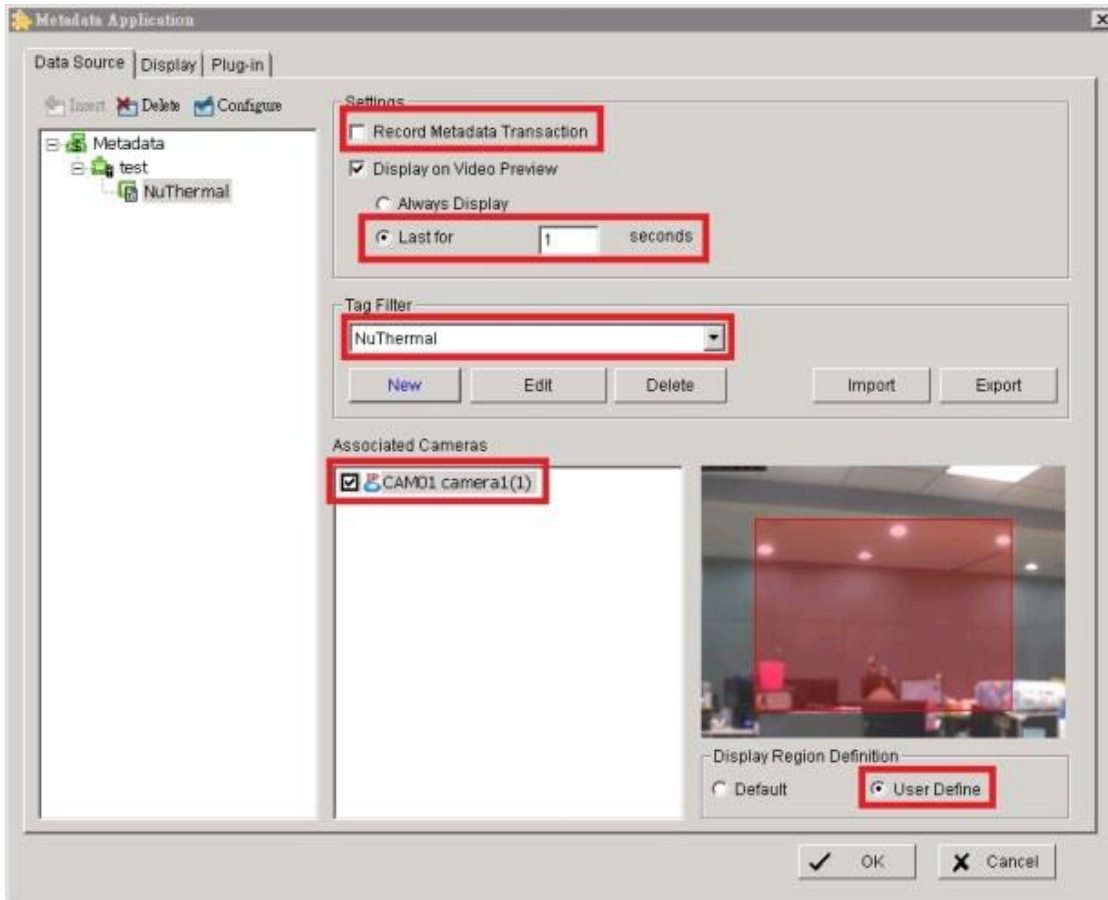3.2   Set Metadata Plugin Source

Server IP: The IP address of the PC where is the 3rd Party Software, in this example is 10.0.4.3.

Server HTTP Port: Web Port of 3rd Party Software, this example is 8080

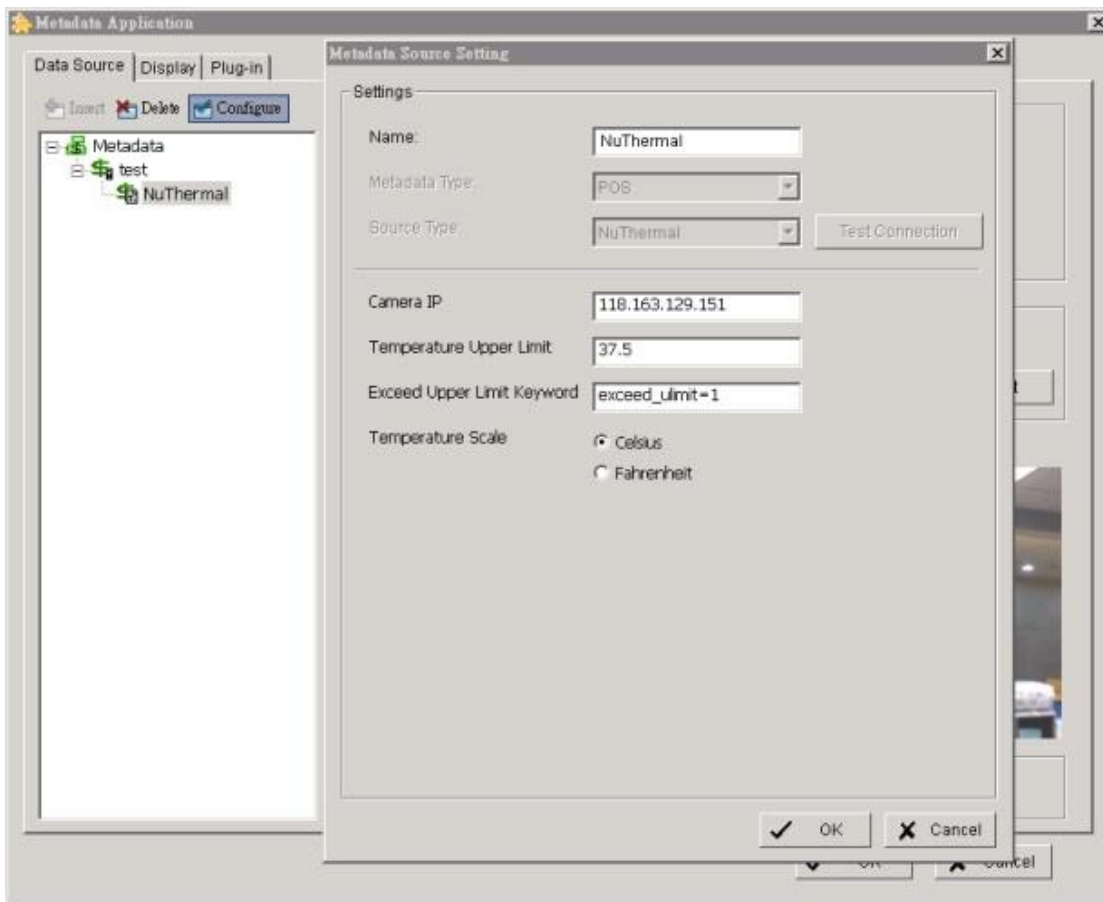User Name / Password: The default is admin / blank, can be reset on 3rd Party Software

www.nuuo.com

3.3   Set Metadata Node

3.3.1 Because NuThermal's metadata will update by per second, the amount of metadata will be large (15MB / per ch-per day), so in order to reduce the load on the metadata database, recommended to disable record metadata transactions ; If you want to find events which with high temperature, you can use SmartGuard's metadata user-defined events, which will be more efficient to use (compare with recording all metadata transactions and then using metadata search is not very efficient)

3.3.2 Supplementary Note: If Playback NuThermal Metadata Transaction is required in the site, then you can only select Enable Record Metadata Transaction

3.3.3 Select Display on Video Preview / Last for 1 second, only the latest Thermal Transaction will be displayed

3.3.4 Set the Tag Filter of NuThermal; It can also be downloaded from the NUUO official website: https://www.nuuo.com/DownloadDetail.php?id=0159

3.3.5 Associated Cameras are set up and can be assigned to multiple Cameras at the same time.

3.3.6 Select Display Region Definition

3.3.7 In this example, click "**NuThermal**", then press Button **Configure**

www.nuuo.com

3.4   Set Metadata Channel

   3.4.1 **Camera IP**: It is the IP address of Thermal Camera

   3.4.2 **Temperature Upper Limit**: If the detected temperature exceeds this temperature, the default Metadata Transaction will include the string "exceed_ulimit = 1"; this string can be changed, see below for details.

   3.4.3 **Exceed Upper Limit Keyword**: The default value is "exceed_ulimit = 1", when the Temperature Upper Limit is exceeded, it will appear in Metadata Transaction
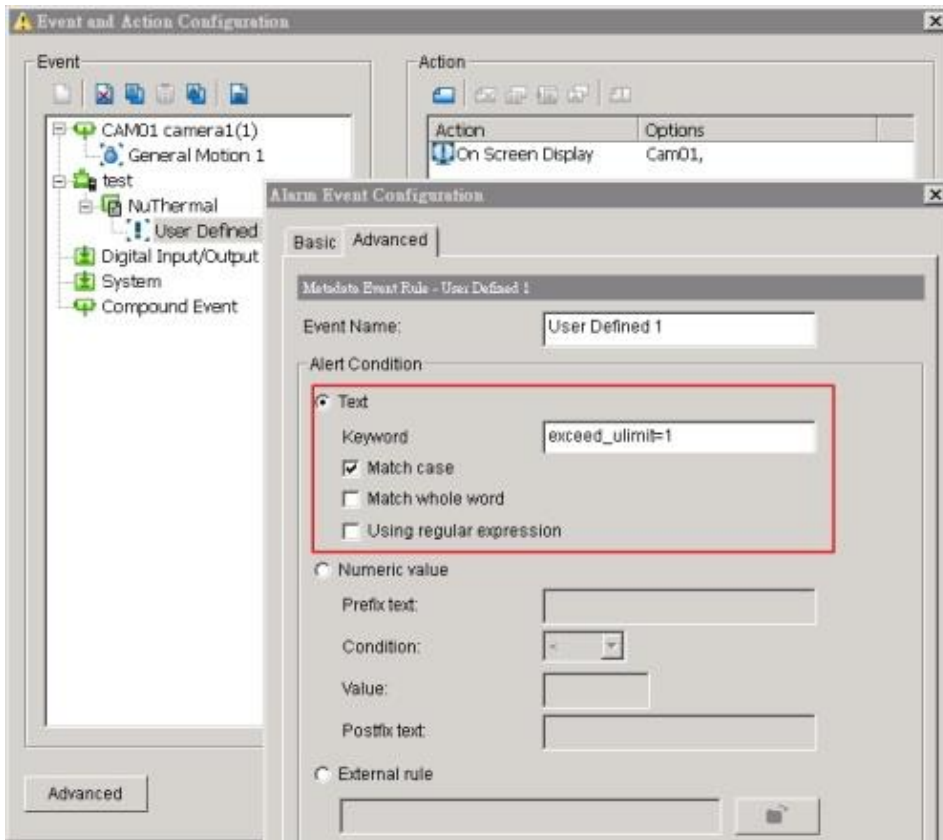
   3.4.4 **Temperature Scale**: You can choose the temperature in **Celsius** or **Fahrenheit**.
          The Temperature Upper Limit should be adjusted by the user.

   After completing the above settings, you can see Metadata Transaction on the Associated Camera.

www.nuuo.com

4. SmartGuard Setting

4.1 Under **NuThermal**, select **User Defined Event**

4.2 In Advanced, set the **Alert Condition** to Keyword as exceed_ulimit = 1, (default value, see 3.4.3 for details), as shown above.

4.3 User can configure the corresponding SmartGuard Action.

4.4 Start SmartGuard, when the temperature is too high, it can be observed Event is triggered.

4.5 Can find SmartGuard **Metadata Event Log** from the **Log Viewer**.