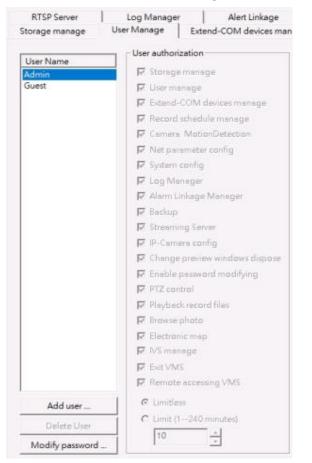


NUUO Thermal Plugin

- 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)

RTSP Server	Log Manager Alert Linkage Backup	IVS System	manage IP-Camera	IPCAM Web
Storage manage Us	er Manage Extend-COM devices manage Record Scher	dule Custom Window	Camera MotionDetection	Net parameter manage
Web server setting Web port (TCP):	1000 Enable IE-Active timeout (sec):	120 DDNS		_
Data port (UDP):	8001		0-5A-3A-46-4A-02	_
Open web server.	 Invays open C Always close C A cerical of open: 00:00 → 22 	DDNS-S	n DDNS-Server #1 erver IP: dns.adeglobal.	net
	C A period of open: 00:00 - 23		erver Port: 12400	

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):



NUUO Thermal Plugin

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

ata Source Displa	y Plug-in			
Update				
Brand	Model	Туре	Version	-
AC TCP Client		AC	2.2.0.0	
Herta		Nu-connection	2.3.0.0	
LPR TCP Client		LPR	2.2.0.0	_
NuThermal		POS	2.0.0.3	
NuFace		Nu-connection	2.0.0.7	
Visec		LPR	1.0.8	
Tyco Client		AC	1.0.8	
UDP		IVS	1.0.8	
Soyal		AC	1.0.8	_
Soyal Client		AC	1.0.8	
VAULT_FALCO		AC	1.0.8	
Micros Gateway		POS	1.0.8	

NUUO Thermal Plugin

3.2 Set Metadata Plugin Source

Name:	test		
Metadata Type.	POS	÷	
Source Type	NuThermal	*	Test Connection
Server IP	10.0.4.3		
Server HTTP Port	8080	-	
User Name	admin		
Password			

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

NUUO®

NUUO Thermal Plugin

3.3 Set Metadata Node

률 Metadata ∋ 🚑 test i∰ NuThermal	Record Metadata Transaction Display on Video Preview Aways Display Last for	seconds		
	Tag Filter NuThermal New Edit	Delete	Import	Export
	Associated Cameras			-
		Display	Region Definition	

- 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: <u>https://www.nuuo.com/DownloadDetail.php?id=0159</u>
- 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

3rd Party Software Installation & Setup

nuuo®

NUUO Thermal Plugin

ata Source Display Plug-in	Metadata Source Setting			×
Metadata	Settings Name: Metadata Type, Bource Type Camera IP Temperature Upper Limit Exceed Upper Limit Keyword Temperature Scale	NuThermal POS NuThermal 118.163.129.151 37.5 exceed_ulmt=1 © Celsus © Fahrenheit	Test	Connection
			🗸 ок	X Cancel

- 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.

nuuo®

NUUO Thermal Plugin

4. SmartGuard Setting

ent D D D D D D		Action	⊡ ගැක ප	0
CAM01 camera1(1)	_	Action	een Display	Options Cam01,
 test NuThermal User Defined Digital Input/Output 	Basic Advan	- Carlo		
- 😰 System - 🍄 Compound Event	Metadoto Event	Rule - User Define	d 1	
	Event Name: Alert Condit		User Defi	ined 1
			ession	ilimit=1
	C Numeric Prefix te Conditio Value: Postfix t	at: on:	-	
tvanced	C External	rule		

- 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**.

System Log Export and Backup Log Unusual Event Edge Storage Counting Application Cligaran Metadata Log Log Type: All Event All Event Tom. Event Tom. Event Tom. Event Tom. Event Name <th>⊂Log Viewer</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	⊂Log Viewer						
Metadata: All Date: Image: 2020/04/16 image: 2020	System Log Exp	ort and E	ackup Log Unusual Event Edg	e Storage Counting Ap	oplication Count	ing Application (Diagram) Metadat	ta Log
Date: Image: Constraint of the const	Log Type:	All	×				
Date Time: 2020/04/16 11:17 to 2020/04/16 11:17 Search Event Time Event Name Metadata Name Camera Description 2020/04/16 11:16:49 User Defined Event Rule 01 NuThermal 1 Keyword "exceed_ulmit=1" is detected! 2020/04/16 11:17:06 User Defined Event Rule 01 NuThermal 1 Keyword "exceed_ulmit=1" is detected! 2020/04/16 11:17:06 User Defined Event Rule 01 NuThermal 1 Keyword "exceed_ulmit=1" is detected! 2020/04/16 11:17:16 User Defined Event Rule 01 NuThermal 1 Keyword "exceed_ulmit=1" is detected! 2020/04/16 11:17:16 User Defined Event Rule 01 NuThermal 1 Keyword "exceed_ulmit=1" is detected! 2020/04/16 11:17:16 User Defined Event Rule 01 NuThermal 1 Keyword "exceed_ulmit=1" is detected! 2020/04/16 11:17:16 User Defined Event Rule 01 NuThermal 1 Keyword "exceed_ulmit=1" is detected!	Metadata:	All					
Event Time Event Name Metadata Name Camera Description 2020/04/16 11:16:49 User Defined Event Rule 01 NuThermal 1 Keyword "exceed_ulmit=1" is detected! 2020/04/16 11:17:06 User Defined Event Rule 01 NuThermal 1 Keyword "exceed_ulmit=1" is detected! 2020/04/16 11:17:06 User Defined Event Rule 01 NuThermal 1 Keyword "exceed_ulmit=1" is detected! 2020/04/16 11:17:06 User Defined Event Rule 01 NuThermal 1 Keyword "exceed_ulmit=1" is detected! 2020/04/16 11:17:26 User Defined Event Rule 01 NuThermal 1 Keyword "exceed_ulmit=1" is detected! 2020/04/16 11:17:26 User Defined Event Rule 01 NuThermal 1 Keyword "exceed_ulmit=1" is detected!	Date:	~	2020/04/16 💌 🜻				Export to
2020/04/16 11:16:48 User Defined Event Rule 01 NuThermal 1 Keyword "exceed_ulimit=1" is detected! 2020/04/16 11:16:57 User Defined Event Rule 01 NuThermal 1 Keyword "exceed_ulimit=1" is detected! 2020/04/16 11:17:06 User Defined Event Rule 01 NuThermal 1 Keyword "exceed_ulimit=1" is detected! 2020/04/16 11:17:06 User Defined Event Rule 01 NuThermal 1 Keyword "exceed_ulimit=1" is detected! 2020/04/16 11:17:06 User Defined Event Rule 01 NuThermal 1 Keyword "exceed_ulimit=1" is detected! 2020/04/16 11:17:25 User Defined Event Rule 01 NuThermal 1 Keyword "exceed_ulimit=1" is detected!	Date Time:		2020/04/16 11:17 + 📺 to	2020/04/16 11:1	7_*		Search
2020/04/16 11:16:57 User Defined Event Rule 01 NuThermal 1 Keyword "exceed_ulmit=1" is detected! 2020/04/16 11:17:06 User Defined Event Rule 01 NuThermal 1 Keyword "exceed_ulmit=1" is detected! 2020/04/16 11:17:16 User Defined Event Rule 01 NuThermal 1 Keyword "exceed_ulmit=1" is detected! 2020/04/16 11:17:16 User Defined Event Rule 01 NuThermal 1 Keyword "exceed_ulmit=1" is detected! 2020/04/16 11:17:26 User Defined Event Rule 01 NuThermal 1 Keyword "exceed_ulmit=1" is detected!	Event Time		Event Name	Metadata Name	Camera	Description	
	2020/04/16 11 2020/04/16 11 2020/04/16 11 2020/04/16 11	1:16:57 1:17:06 1:17:16 1:17:25	User Defined Event Rule 01 User Defined Event Rule 01 User Defined Event Rule 01 User Defined Event Rule 01	NuThermal NuThermal NuThermal NuThermal	1 1 1	Keyword "exceed_ulimit=1" is a Keyword "exceed_ulimit=1" is a Keyword "exceed_ulimit=1" is a Keyword "exceed_ulimit=1" is a	detected! detected! detected! detected!