

# HTTP API Thermal

Version 1.00

Update Records:

[illegible]

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# 1. Camera Thermal Function Configuration

## 1.1 Thermal Function

http://<servername>/cgi-bin/control/camthermalfunc.cgi  
[?<argument>=<value> [&<argument>=<value> ...]]

Argument	Values	Description
id=<string>		
passwd=<string>		
action=<string>	getthermalfunc setthermalfunc	get : Get current value set : Set value using given data
<b>Image</b>		
color=<string>	grey iron rainbow greyred glowbow yellow midgrey bluered	
gainctrl=<string>	auto manual	Gain Control
usergainmin=<int>	1~16384	Manual Gain min
usergainmax=<int>	1~16384	Manual Gain Max
bright=<int>	-40~40	Brightness
contrast=<int>	-10~10	Contrast
colorinv_use=<string>	on/off	Color Invert
mirror_use=<string>	on/off	Mirror
flip_use=<string>	on/off	Flip
<b>Enhancement</b>		
edgenhance=<string>	off low middle high	Edge Enhancement
noisereducefilter=<string>	off low middle high	Noise Reduction Filter
imgenhance_use=<string>	on/off	Image Enhancement Type
imgAHE=<string>	on/off	CLAHE

<u>imgCIE</u> =<string >	on/off	CIE
<u>imgweightcie</u> =<string >	lowest low middle high highest	CIE Weight
<u>gamma_use</u> =<string >	on/off	Gamma
<u>gamma_param1</u> =<int>	1~1024	Gamma Parameter 1
<u>gamma_param2</u> =<int>	1~1024	Gamma Parameter 2
<b>NUC</b>		
<u>nucmode</u> =<string >	off time auto timeauto	NUC
<u>nucptime</u> =<int>	0/60/120/180/240/300/600/1200/1800/3600	NUC Period 0:OFF 60~3600 : Seconds
<u>nucautosens</u> =<string >	lowest low middle high highest	NUC Auto
<b>Display</b>		
<u>showcenter_use</u> =<string >	on/off	Show Center
<u>showtemp_use</u> =<string >	on/off	Show Temperature
<u>showindicator_use</u> =<string >	on/off	Show Indicator
<u>showcbar_use</u> =<string >	on/off	Show Color Bar
<b>Correction</b>		
<u>supportmode</u> =<int>	1/2/4/8/16	Get Temperature Mode: <a href="#">Bit-OR</a> , 1/2/4/8/16 → Normal/High/Medical/Medium/M-High
<u>temp_mode</u> =<int>	1/2/4/8/16	Set Temperature Mode
<u>correct_use</u> =<string >	on/off	Correction Enable
<u>emissivity</u> =<float>	0.0~1.0	Emissivity
<u>transmission</u> =<float>	0.0~1.0	Transmission
<u>atmosphere</u> =<float>	-50.0~100.0	Atmosphere
<u>zerooffset</u> =<float>	-100.0~100.0	Zero Offset

### 1.1.1 Send --Method: GET

Example 1.

```
http://192.168.1.30/cgi-bin/control/camthermalfunc.cgi?id=admin&passwd=admin
&action=getthermalfunc
```

```
http://192.168.1.30/cgi-bin/control/camthermalfunc.cgi?id=admin&passwd=admin
&action=setthermalfunc&color=grey
```

### 1.1.2 Response

return :

HTTP Status: 200 OK

Content-type : text/plain

Body:

#### <If Success>

```
:
```

#### <If Error>

```
Error: <description>
```

## 1.2 Thermal ROI

http://<servername>/cgi-bin/control/camthermalroi.cgi  
 [?<argument>=<value> [&<argument>=<value> ...]]

Argument	Values	Description
id=<string>		
passwd=<string>		
action=<string>	getthermalroi# setthermalroi#	get : Get curret value set : Set value using given data # is roi number. (0 ~ 9), Entire:200
roi_use=<string>	on/off	
startx=<int>		ROI Start position x : 0 ~ (Max width-1)
starty=<int>		ROI Start position y : 0 ~ (Max height-1)
endx=<int>		ROI width : 0 ~ (Max width-1)
endy=<int>		ROI Height : 0 ~ (Max height-1)
alarm_use=<string>	on/off	Alarm Out use
mode=<string>	center average minimum maximum	"center" is used, only Entire region
condition=<string>	above/below	
temperature=<int>		Normal : 0x0001 (-30°C ~ 130°C) High : 0x0002 (-10°C ~ 510°C) Medical : 0x0004 (-10°C ~ 70°C) Medium : 0x0008 (-30°C ~ 310°C) M-High : 0x0010 (10°C ~ 1100°C)
start_delay=<int>	0~1800	Start Delay Time
stop_delay=<int>	0~1800	Stop Delay Time
iso_use=<string>	on/off	ISO Therm Use
iso_color=<string>	red green blue grey	ISO Therm Color
alarm_out=<string>	none/1/2	Alarm Out Port No

### 1.2.1 Send --Method: GET

Example 1.

```
http://192.168.1.30/cgi-bin/control/camthermalroi.cgi?id=admin&passwd=admin  
&action=getthermalroi0
```

```
http://192.168.1.30/cgi-bin/control/camthermalroi.cgi?id=admin&passwd=admin  
&action=setthermalroi0&roi_use=on
```

### 1.2.2 Response

return :

HTTP Status: 200 OK

Content-type : text/plain

Body:

**<If Success>**

:

**<If Error>**

Error: <description>