Infrared thermal imaging temperature monitoring system user's guide

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1. Install

Double-click the installation package, select the installation language, and then follow the prompts to install the software:

Setup - GThermalIR 1.2.1.0	-		×
Select Destination Location Where should GThermalIR be installed?		2	
Setup will install GThermalIR into the following folder.			
To continue, click Next. If you would like to select a different folder, click Browse.			
D:\GThermallR	Br	owse	
At least 140.9 MB of free disk space is required.			
L	Next	Can	cel
Setup - GThermaliR 1.2.1.0	-		×
Setup - GThermalIR 1.2.1.0 Select Additional Tasks Which additional tasks of the performed?	-		×
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2. Running the software

1 Interface profile

After double-click the program to run, the login interface will pop up first (the software will configure an admin account by default, and please request the password from the supplier), and the interface below is shown below:



After successful login, the software running interface is displayed as follows:

Infrared n	nonitoring system	Monitor	Manage	Alarm	Settings	Offline	Wednesday 12:00:14 2024-07-24	800
🕐 Device List	• Real time monitoring						• Temperature Statistics Table	
							Channel Name Max("G Avgr"G Min("G Rise	ondition Status
	Temperature curve							
	1125 750 375 00 115514 115544 115614	11:56:44 11:57:14	11:57:44	11:58:14 11	-58.44 11:5 <u>9:14</u>	11:59:44 12:00:14		
User [admin]							Run tim	e: 0 . 00 : 00 : 17

five main function buttons on the software, which are:

Real-time monitoring: the software operation interface displayed by default;

Equipment management: discover equipment and add equipment;

Alarm center: record the object alarm information;

System configuration: It is used for system configuration, user management, and version information query. Offline analysis: For offline analysis of images and videos

3 . Direction for use

1 Real time monitoring

1.1 Real-time monitoring diagram

After the device is successfully connected, the infrared video will be displayed in the instant monitoring map.



Below is the toolbar for the layout and common operation settings, defined as follows:



The above tool buttons function from left to right as follows:

Lock: lock / unlock the real-time monitoring diagram interface, after locking, the object editing operation cannot be performed, the right button failure;

Lock toolbar: after selected, this toolbar will be fixed display, after cancellation, the mouse moves to this area display, automatically disappear after 5s display;

Image toolbar: Display / hide the image toolbar;

Image status bar: Show / hide the image status bar;

Image palette: Display / hide the image palette;

Image stretch: When selected, the image is filled with the window, and when cancelled, the image is displayed in

scale;

Layout adjustment: window layout adjustment

To the left of the video is the image toolbar, as shown below.





At the bottom of the video is the camera status information. Click the right mouse button on the

image to display or hide part of the information:



After the middle temperature measurement object is selected, click the right button to edit the properties of the temperature measurement object. Take the parameter line of the rotary kiln as an example:

Alias		Enter object r	name	
Emissivity		0.980		
Reflection temper	ature	20.0(°C)		
Distance		2.0(m)		
Temperature corre	ection	0.0(°C)		
OSD display optio	ns:			
Name	Prefix	🗹 Index	🗆 Alias	
Max	🗹 Mark	☑ Value		
Min	🗆 Mark	🗆 Value		
Avg		🗆 Value		
Alarm switch:	● Max O A	vg OM	Min	
Level1 alarm	>1500.0°C	<0.0°C	🐴 🗆 Alarm	
Level2 alarm	>1500.0°C	<0.0°C	🗐 🗆 Alarm	
Lever1 rise alarm	>10.0°C /	10(s)	🗧 🗆 Alarm	
Lever2 rise alarm	>10.0°C 🗧 /	10(s)	🗧 🗆 Alarm	
Alarm mode: O	Single ○ Repeat Alarm	interval: 30s		

Alias: Object name

Radirate: for temperature correction according to the radiation rate of the measured object Reflectance temperature: for temperature correction, fill in the current ambient temperature Distance: Distance for temperature correction to fill in the target

Temperature correction: For temperature correction, fill in the temperature value to be corrected OSD Display options: To display or hide related options

Alarm switch: default for the maximum temperature alarm, alarm can set two levels of alarm, set according to the need

Alarm mode: single: when the alarm condition is detected, an alarm will be triggered;

Repetition: When the alarm condition is detected from never satisfied to satisfied, an alarm will be triggered. If the condition is always met, the repeated alarm will be conducted at a certain interval. Alarm catch picture: save a jpg image when alarming

Alarm video: record a gcv video during an alarm

IO: When using moxa IO module, IO can be associated, when the alarm condition is met, IO is closed,

when not satisfied, IO is disconnected.

Apply to all rectangular configurations: you can quickly apply the selected configurations to other objects of the same type;

Apply to all configurations: you can quickly apply the selected configuration to all other objects;

1.2 Temperature statistical table

Display the highest temperature, average temperature and minimum mild alarm warning of each object of

temperature measurement in real time.

Channel	Name	Max(°C)	Avg(°C)	Min(°C)	Rise	Conditions	Status
ChO	Global	22.2	19.2	15.5	-0.0°C/10s		<u></u>
CIU	EO	20.9	20.1	19.3	0.2°C/10s		(

When there is an alarm, the alarm diagram of the corresponding temperature measurement object is yellow

(primary alarm) or red (secondary alarm), and the alarm is restored to green after the alarm disappears.

1.3 List of equipment

Displays the currently added camera and channels.



Select the IP, and the point can replace the channel of the camera.

2 device management



2.1 Add equipment

The software monitors the online device in real time, and shows in the online device list, select the current online device, click "Add to the client", add when you need to add a name to the device, the default name is the device IP.

	🖸 Modifying device information — 🗆	×
	Device IP 192.168.1.42 Device Name Please enter a device name Display Channel Channel 0	
Add to client		
		192.168.1.42

2.2 Modify the device IP

In the device management interface, you can modify the device IP (note: the device must be successfully connected before modifying the IP).

lodify device name	Modify device IP	Delete device	
		Device IP	
192,168,1.42			192.168.1.42
		Modify Sevice	IP – X 192.168.1.42
		Device Name	192.168.1.42
		Display Channe	hannel_0
			Cancel

If you modify the network segment of the camera (for example from 192.168.10.11) to 192.168, change the local link IP of the computer to the same network segment to connect the camera normally. After changing the IP, click "Refresh the online device" to see whether the change is successful.

3 The alarm center

When an alarm is detected, it will be recorded to the alarm center. Click on the alarm center to see these records.



The alarm center can be set to filter, and the table results can be exported in csv format.

4 System Settings

4.1 System Settings



Number of cameras: select the number of cameras according to the actual situation; Temperature refresh period: the refresh frequency of the interface temperature; OSD font size: Select the font size of OSD.

4.2 Communication Settings



MOXA enables: whether to use the MOXA module;

MOXA IP: Fill in the module IP address;

MOXA Port: Fill in the module communication port.

4.3 User management

admin admin User Group1 User Group2	admin admin Image: Im		user name	purview
2 User Group1 3 User Group2	2 User Group1 3 User Group2	I.	admin	admin
3 User Group2	3 User Group2	2		User Group1
		3		User Group2

The software configured an admin account by default, and the admin account can increase or delete users.

Account rights are administrator, user group 1 and user group 2. Permissions are slightly different:

Administrator: can create and delete the administrator, administrator, user group 1 and user group 2 accounts, can change the account password, have full control over the software;

User group 1: cannot create and delete the account, can only modify their account password, and have full control over the software;

User Group 2: Can not create and delete the account, can only modify their own account password, can only view the software, can not modify the Settings or delete the data;

4.4 Version information



5 Offline analysis

Offline analysis can turn on the recorded GCV video and jpeg images and analyze the temperature.

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 Technology (1999) Technology (1999) Technology (1999) Technology (1999) Technology (1999) Technology (1999) Technology (1999) Technology (1999) Technology (1999) Technology (1999) Technology	
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Constitutioner Propriet Annual	
Tanka Alac Maga	
Contract of Contra	
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Carlotty Committee Charlottype 10/01/08	
Charrier (CHC) (2000) (2000) (2000) (2000)	
Canal Canal and a state of the state of the state	

Above is the playback control toolbar:

Funcfunctions from left to right are: Den the file
Den t

The upper left side is the playback file information:



The lower left side is the storage directory, in the storage directory, you can directly double-click to open the selected file.

Name	Size	Туре
🖌 🔄 alarm		File Folder
- 应 20230519_095213_432.jpg	327.75 KiB	jpg File
- 应 20230519_133225_920.jpg	328.51 KiB	jpg File
- 💩 20230519_133248_281.jpg	331.02 KiB	jpg File
- 💼 20230519_133256_280.jpg	328.74 KiB	jpg File
- 💼 20230519_175411_732.jpg	313.57 KiB	jpg File
- 🚋 20230519_175508_950.jpg	310.59 KiB	jpg File
- 👼 20230519_175521_049.jpg	312.42 KiB	jpg File
- 💩 20230519_175532_755.jpg	313.13 KiB	jpg File
- 💼 20230519_175540_052.jpg	314.16 KiB	jpg File
- 💼 20230519_175553_310.jpg	311.89 KiB	jpg File
- 应 20230519_175711_531.jpg	311.98 KiB	jpg File
- 💼 20230519_175749_229.jpg	308.05 KiB	jpg File
- 💼 20230519_175755_370.jpg	311.34 KiB	jpg File
- a 20230519_180458_542.jpg	323.52 KiB	jpg File
- 🎰 20230519_181500_980.jpg	312.20 KiB	jpg File
- 🔯 20230519_182502_399.jpg	315.76 KiB	jpg File
- 💼 20230519_182505_981.jpg	315.34 KiB	jpg File
L 📠 alarm_230604_105127_734.jpg	748.52 KiB	jpg File
🖌 🔤 csv		File Folder
empdata_230523_150526_333.csv	3.37 KiB	csv File
a tomodata 220522 152120 569 cru	3 37 KiB	cent File

4. Common faults and solutions

phenomenon	Possible cause	solve
The software does not	1 The computer IP and the device	1 Modify the computer IP network segment to be consistent with the
detect device IP; IP is	IP are not in the same network	device IP and different from the device IP
detected but no image	segment	2 Turn off the computer firewall or let the firewall allow programs to

after connection	2 Computer firewall	pass
	block	3 Camera hardware failure, contact the supplier for remote
		troubleshooting
Software open reported	1 The computer is missing	1 Contact the supplier for remote screening
exception error	from the library files	
The camera is powered	1 Network cable	1 Replace the network cable
up and directly	connection problem	2. The equipment is gigabit network card, the corresponding computer
connected to the	2 Network speed does	needs to adapt or also gigabit
computer network cable,	not match	3 Check the computer network port
and the computer	3 Computer network	4、 For K31, K26H, K26H2, K41 model equipment need to open the
network connection	port failure	network card giant frame function
shows a red fork		
Image lag	1 、 network problem	1 Check whether the network cable is normal
	2 Insufficient	2. Check the switch, the computer network card is gigabit, if 100
	bandwidth	megabytes, the frame rate
	3 The computer	3、 Replace computer (recommended i7 CPU, 8 Gb memory, Gigabit
	configuration is just	network and above)
	too low	