

ThermalTronix

TT-1060MD-FTM Series Thermal Imaging Camera

User Manual



Intellisystem Technologies S.r.l.



General Information

CONVENTIONAL

ightarrow Warning: The improper operation can cause the thermal imaging system the major damage $_{\circ}$

Careful, attention, warning, danger: In the reminder operation should pay attention item
 Note, hint, tip and consider: to operates the content and explanation. Please read
 "WARNING" & "CAUTION" in the operation manual attached to the product carefully for proper operation before using the product.

Warnings & cautions

- An infrared camera is a precision instrument and uses a very sensitive IR detector. Pointing the camera towards highly intensive energy sources-such as sun or devices emitting laser radiation or reflections from such devices-may affect the accuracy of the camera readings, or even harm-or irreparably damage-the detector, whether the power supply of the camera is switch on or off.
- Avoid incorrect operation methods such as heavy pressing, shock or strong vibration during the course of transportation, store and installation otherwise the product could be damaged.
- For protective reason please keep the product in the environment between -40°C and +70°C during the course of transportation and storage. Original packaging box should be used during transportation.
- For protective reason the camera should be stored in shady, dry and draughty environment, avoids electromagnetic interference.
- Do not use the camera in a manner not specified in this manual or the protection provided by the equipment may be impaired.



Table of contents

1. INTRODUCTION	1
2. TECHNICAL SPECIFICATIONS	1
3. CONNECTIONS & BUTTONS DESCRIPTION	2
3.1 Connections	2
3.2 BUTTONS DESCRIPTION	4
4. OPERATIONS	5
4.1 INTERFACE	5
4.2. MENU FUNCTION DESCRIPTION	6
4.2.1 Temperature measurement mode	6
4.2.1.1 Spot	7
4.2.1.2 Horizontal	8
4.2.1.3 Vertical	9
4.2.1.4 Area	10
4.2.2 Level/Span	11
4.2.3 Setup	12
4.2.3.1 Measure Set	12
4.2.3.2 Measure Correct	13
4.2.3.3 Analysis	14
4.2.3.4 Local Adapt	15
4.2.3.5 System Info	16
4.2.3.6 Fact Default	16
4.2.3.7 Network Set	17
5. CLIENT SOFTWARE OPERATIONS	18
5.1 GETTING STARTED	18
5.2 GRAPHICAL USER INTERFACE	19
5.2.1 Interface and Connection description	19
5.2.2 Interface operation description	20
5.3. System setting	23
5.4. VIDEO PLAY SOFTWARE	27
6. TROUBLE SHOOTING	29



1. Introduction

Thank you for choosing the **TT-1060MD-FTM** thermal imaging camera (referred to hereafter as "camera" or "**TT-1060MD-FTM**").

The **TT-1060MD-FTM** uses the high sensitive UFPA detector. Simply connect the camera to a PC or a monitor and produce high-quality real-time images.

Its low weight, ruggedness and compacted. Fully configured I/O functionality allows the **TT-1060MD-FTM** either to be integrated quickly and easily in your control systems or to be set up as a stand-alone system. Real time color or voice alarm offer.

The **TT-1060MD-FTM** is available in RJ-45 Ethernet models that are ideal for individual or network multiple camera installations.

Accessories

The **TT-1060MD-FTM** and its accessories are delivered in an appropriative transport case, which typically contains the items below:

- TT-1060MD-FTM thermal image camera
- 2m network cable(Special cross-connect network cable)
- Power cable
- Technical specifications
- Video cable
- Users manual
- Users CD (Include: demonstrate software, users manual CD)
- Transport case.

2. Technical specifications

Refer to technical specification in transport case.

Intellisystem Technologies S.r.l.



3. Connections & Buttons Description

3.1 Connections



2

Figure 3.1

- 1. Ethernet Port: For data and information transfers.
- 2. Analog Video Output Connector: Connect large monitors for viewing.
- 3. Power Supply Connector: Connect to power supply
- **4. Serial Communication and I/O Port:** Digital (TTL) output/input, YUN terrace communication and user-defined pins.

IO port output function recommended connection.

\oslash	\oslash	\bigcirc	\oslash	\oslash	\oslash	\oslash	\oslash	\oslash	\oslash
+12₹	GND	485+ R+	485- R-	T+	T-	I01	102	103	104

Output definition (form left to right):

ltem	Power supply		Serial port		Com	nmon IO and	I COM	ports		
definition	+12V	GND	RS485+ /R+	RS485- /R-	T+	T-	GPIO1 (voice alarm output)	GPI O2	GPI O3	СОМ

Description:

- 1. Power in: +12V, GND
- 2. Serial port

RS485 output: RS485+, RS485-

4 terminals"RS485+/R+, RS485-/R-, T+,T-,"configuration:

Termi	nal	RS485+/R+	RS485-/R-	T+	T-
-------	-----	-----------	-----------	----	----

Intellisystem Technologies S.r.l.



	Mode 1	RS485+	RS485-	Spare	Spare
	Mode 2	R+	R-	T+	T-

RS422 Output:

RS485 and RS422 changeable

3. GPIO 1, 2, 3 output:

1) Inside framework



2) recommended connection:



Item: VCC recommended: 3.3V, 5V, 8V, 12V. RL recommended: 10K

VCE Output control pin $\ensuremath{\,\,{}}$. We suggest adding amplifying circuit if the circuit drives high current component.

Normal state: GPIO: High impedance. Temporality: VCE approximately equal to VCC; **Alarm state**: GPIO: Low impedance .Temporality: VCC approximately equal to 0V;

Intellisystem Technologies S.r.l.



3.2 Buttons description

Press briefly to freeze an image
Press to leave freeze mode and go to live mode
 Composite Buttons consist of UP, DOWN, LEFT, RIGHT and CONFIRM buttons. Press confirm button to display the menu system Press confirm button to exit the menu system Press to confirm selections and leave dialog boxes If the camera is in temperature measured mode press confirm button to display the attribute of spots, lines and areas Press up/down or left/right buttons to navigate in menus, dialog boxes and on the screen. Press up/down or left/right buttons to the spots position If camera is in horizontal measured mode press up/down buttons to move the horizontal position, press left/right buttons to move reference point, vertical contrarily. If camera is in area measured mode press up/down or left right to move the press up/down or left press up/down or left press left/right buttons to move reference point, vertical contrarily.
Press to guit current operation
 Press to leave freeze mode and go to live mode
If the menu system is inactive press and hold down C button for more
than 3 seconds to autofocus.
 Press and hold down for more than 3 seconds to autoadjust the camera. Press to seriatim select the spot,line,area and palette. The chosen item will show in yellow, the number will change to '*'mark and the corresponding result in result table will be displayed in yellow background.

4

Intellisystem Technologies S.r.l.



4. Operations

4.1 Interface



Figure 4.1

Callout	Item	Description
1.	Work mode	To display current work mode
2.	Crosshair	To display the position of a spot in the image
3.	Minimum temperature	The minimum temperature of the color palette
4	Color palette	To show the scale of the thermal image
5.	Maximum temperature	The maximum temperature of the color palette
6	Result table	To display the measured temperatures result of spots,
		isotherm and areas
7	Pull up menu	it is made up of Measurement Level/Span and Setup.

Intellisystem Technologies S.r.l.

Via Augusto Murri, 1 – 96100 Siracusa - Phone +39 (0)931-1756256 / +39 (0)2-87167549 - Mobile (+39) 335 1880035 em@il: info@intellisystem.it WEB: http://www.intellisystem.it

5



4.2. Menu function description

The menu system includes a number of different menu objects. This section describes the menu

objects.



4.2.1 Temperature measurement mode



Figure 4.3

- Press confirm button to display the pull up menu.
- Point to **Measurement** item by pressing up/down buttons.
- Press the confirm button to display **Measurement** dialog box.



Intellisystem Technologies S.r.l. Via Augusto Murri, 1 – 96100 Siracusa - Phone +39 (0)931-1756256 / +39 (0)2-87167549 - Mobile (+39) 335 188003 em@il: info@intellisystem.it WEB: http://www.intellisystem.it 6



Figure 4.4

Press left/right button to seriatim change the content with the sequence of None, Add Spot,

Horizontal, Vertical and Add Area.

4.2.1.1 Spot

- Point to Measurement and then press the confirm button to display the Measurement dialog box.
- Press left/right button to select Add Spot and then press the confirm button. A spot will now appear on the screen. The measured temperature will be displayed in the result table in the top right corner of the screen. The temperature will show in shape with Sx=YY. For example: Like following figure S1=24.3 denote the temperature of the spot1 is 24.3°C, you can change the temperature unit.
- You can add 4 spots maximum.
- Press the A button to select the spot1, the selected item will be shown in yellow background and the mark will show in "*"you are now in edit mode.

Intellisystem Technologies S.r.l.



- Press left/right or up/down button to move the spot.
- Press the confirm button to display the attribute dialog. Press up/down to change the select item and press the left/right to change the value of emissivity or set the reference temperature.



Press C button to delete the spot.



4.2.1.2 Horizontal



- Point to Measurement and then press the confirm button to display the Measurement dialog box.
- Press left/right button to select Horizontal and then press the confirm button. A line and a curve will now appear on the screen. The measured temperature will be displayed in the result table in the top right corner of the screen. The line indicates the measured position and the curve is the temperature distribution of the line.
- The temperature will show in shape with LH=YY to denote the intersection temperature of line and cross cursor.
- Press A button to select the horizontal and then the horizontal and the result will be show in yellow background, you are in edit mode.
- Press up/down button to move the horizontal and press left/right to move the cursor on the horizontal.
- Press confirm button to display the attribute dialog box, press left/right button you change the emissivity.

Intellisystem Technologies S.r.l.

Via Augusto Murri, 1 - 96100 Siracusa - Phone +39 (0)931-1756256 / +39 (0)2-87167549 - Mobile (+39) 335 1880035 em@il: info@intellisystem.it WEB: http://www.intellisystem.it

8



Figure 4.6

4.2.1.3 Vertical

- Point to Measurement and then press the confirm button to display the Measurement dialog box.
- Press left/right button to select Vertical and then press the confirm button. A line and a curve will now appear on the screen. The measured temperature will be displayed in the result table in the top right corner of the screen. The line indicates the measured position and the curve is the temperature distribution of the line.
- The temperature will show in shape with LV=YY to denote the intersection temperature of line and cross cursor.
- Press A button to select the vertical and then the vertical and the result will be show in yellow background, you are in edit mode.
- Press left/right button to move the vertical and press up/down to move the cursor on the vertical.
- Press confirm button to display the attribute dialog box, press left/right button to change the emissivity.

Intellisystem Technologies S.r.l.



Figure 4.7

4.2.1.4 Area

- Point to Measurement and then press the confirm button to display the Measurement dialog box.
- Press left/right button to select Add Area and then press the confirm button. A temperature area will now appear on the screen. The measured temperature will be displayed in the result table in the top right corner of the screen.
- The temperature will show in shape with Ax个=YY
- Press A button to select the area and then the result will be show in yellow background and the mark of the area will show in *you are in edit mode.
- Press up/down or left/button to move the area or resize the area.
- Press the confirm button to display the attribute dialog box



Intellisystem Technologies S.r.l.

Via Augusto Murri, 1 – 96100 Siracusa - Phone +39 (0)931-1756256 / +39 (0)2-87167549 - Mobile (+39) 335 1880035 em@il: info@intellisystem.it WEB: http://www.intellisystem.it 10





- Emissivity: Press the left/right button to change the emissivity.
- Set Ref: Set the current temperature as reference temperature.
- Area Type: To set the display temperature in result table, you can select maximum, average or minimum.
- Area Move: To set the function of press left/right and up/down button to move the area or resize the area.

4.2.2 Level/Span



Figure 4.9

Point to **Level/Span** to and press the joystick to manually change **level** and **span**. The level command can be regarded as the brightness, while the span command can be regarded as the contrast.

- Press left button to decrease the span, press right button to increase the span (indicated by two arrows pointing away from each other or towards each other)
- Press up button to increase the level, press down button to decrease the level (indicated by an arrow pointing upwards or downwards in the temperature scale)



Intellisystem Technologies S.r.l.



Symbols in the temperature scale, indicating (1) increasing span; (2) decreasing span;(3) decreasing level, and (4) increasing level

4.2.3 Setup

12

This menu contains all the functions for changing the camera setup parameters. This section describes the parameter setup.



Figure 4.10

4.2.3.1 Measure Set

Measur i	ng Setup	
Temp Ra	inge <mark>-20/180`()</mark>	
Lens	Standard	
Temp Ur	nit C	
AmbTemp	35.4	D,
Ref Typ	e Off	
Ref Tem	np 30.0	- C



Intellisystem Technologies S.r.l.



Point to Measure Set and then press the confirm button to display the Measuring Setup dialog box.

Label	Value	comments
Temp Range	-20~180°C	To set the temperature range it could not be adjust by
		user.
Optional Lens	Standard	To set the optional lens, set by manufacture
Temp Unit	°С F К	To set the temperature unit, press left/right button to
		select unit.
AmbTemp	Adjustable	To set the atmosphere temperature between the
		camera and the target.
		This value usually detect by camera it need not
		correcting unless you turn on/off the apparatus
		continually or the ambient temperature change
		quickly.
		■ Briefly press left/right button to adjust 0.1°C,
		press and hold down left/right button to adjust
		1°C.
Ref Type	On/off	Select On to set the reference temperature
		Select Off to disable the reference temperature
		When it is on, the temperature result table will
		show the temperature difference between the
		object's temperature and reference temperature.
Ref Temp	User-defined	■ You can set the reference temperature if Ref Type
		is On . If not this option will be shaded.
		The reference temperature can be used when the
		camera calculates temperature differences

4.2.3.2 Measure Correct

MeasureCorrec	t	
Emissivity	0.90	
PCorrect	0.00	
TCorrect	0.0	-c
Distance	2.0	
Humidity	60	

Figure 4.12

Label	Value	comments

Intellisystem Technologies S.r.l.



Emissivi	User-defi	To set the emissivity Typical emissivity for a variety of common
ty	ned	materials are listed in appendix 1. The value are meant to be
	(0.1~1)	used only as a guide and can vary depending on many different
		factors.
Р		To set the system's parameter correction(Usually set by
Correct		manufacture)
Т		To set the system's temperature correction(Usually set by
Correct		manufacture)
Distanc	User-defi	You can set the distance by manual.(It's better to set as the
e	ned	actual distance and accurate to 0.5 meter if the distance within
		10 meters)
Humidit	User-defi	To set the current environment humidity. Increase or decrease
у	ned	the value by pressing the left/right button.

4.2.3.3 Analysis

Analysis Setup	
Color Rule	Open
Temp Alarm	Close
Alarming Temp	-12.2 C
Alarming Color	Auto
Isotherm Color	Auto
Isotherm Temp	50.0 C
Isotherm Width	1.0 C

Figure 4.13

Label	Value	Comments	
Color Rule	Open/Close	To set the palette hide or show on the screen	
Temp Alarm	Open/Close	This item setting defines whether the alarm should be	
		triggered when the temperature exceeds or drops	
		below the alarm temperature.	
Alarming Temp	User-defined	To set an alarm temperature if Temp Alarm is opens.	
		if not, this option will be shaded	
Alarming Color	9 colors to be	To set an alarm color when the Temp Alarm was	
	chosen	selected Open. It will not change the original color of	

Intellisystem Technologies S.r.l.

, , ,	INTELLISYSTEM					
			the screen when the alarm is triggered.			
	Isotherm Color	9 colors to be	Sets an isothermal color. This setting command colors			
		chosen	all pixels with the setting temperature. The isotherm			
			levels will be displayed in the temperature palette.			
	Isotherm Temp	User-defined	Sets the temperature of the isothermal central point.			
	lsotherm	User-defined	Average distribute around the central isothermal			
	Width		point. If the isothermal temperature is 50° C, isothermal width is 2° C, and then the isothermal range will be 49° C ~ 51° C.			

4.2.3.4 Local Adapt

Mreellisystem	
LocalAdapt Setup	
Language	English
Auto Calib	200 S
Video Mode	PAL
24	24 ℃

Figure 4.14

Point to Local Adapt and then press the confirm button to display the Local Adapt Setup dialog box.

Label	Parameter	Comments	
Language	English/Chinese	Press left/right button to choose a language.	
		The camera program will be restarted wher	
		you change the language. This will take a few	
		seconds	
Auto Calib	User-defined	To set auto calibration interval. Auto	
		calibration is used to get the better image and	
		increase the accuracy.	
Video Mode	NTSC/PAL	To set the analog video output mode	

Intellisystem Technologies S.r.l.



4.2.3.5 System Info



Figure 4.15

This prompt box shows information about Device ID, Software revision, and Camera Create Time etc. No changes can be made.

4.2.3.6 Fact Default



Figure 4.16

- Point to FactDefault and press the confirm button to display the Reset prompt box.
- Press confirm button to reset the camera to the factory settings, press C button to quit the operation.

The Camera will be restarted when you restore factory settings. This will take a few seconds.

Intellisystem Technologies S.r.l.



4.2.3.7 Network Set

Networl	kSet			
IPAddr	10	. 0	. 5	. 140
Mask	255	. 255	. 255	. 5
Gatewa	J 10	. 0	. 0	. 123
MAC	05	- 60	- a5	- 05
-	- 05	- aa		
NetType	Auto		FactD	ef No

Figure 4.17

Point to NetworkSet and then press the confirm button to display the network setting dialog box.

the setting parameter will effective after restore the apparatus.

Label	Value	Com	Comments	
Auto	Yes/No		Yes: The IP address will be distribute by DHCP services	
		-	No: Need user set the IP address, Mask, etc.	
FactDef	Yes/No		Yes: To load the factory default setting	
		-	No: Need user set the network parameter	
IP address			To set the IP address	
Mask			Appoint the Mask by net	
Gateway			Appoint the Gateway by	
MAC			To set the apparatus MAC, usually in default. For	
			maintenance reason if you want to change the	
			parameter please contact the manufacture.	
Net Type			Only adjust this item in the event that the Ethernet	
			work well but the PC can not communicate with the	
			apparatus.	



5. Client software operations

TT-1060MD-FTM_Client is accessional software you can use pc to control the camera by this software.

5.1 Getting started



Figure 5.1

Intellisystem Technologies S.r.l.

Via Augusto Murri, 1 – 96100 Siracusa - Phone +39 (0)931-1756256 / +39 (0)2-87167549 - Mobile (+39) 335 1880035 em@il: info@intellisystem.it WEB: http://www.intellisystem.it

18



5.2 Graphical user interface

5.2.1 Interface and Connection description



Figure 5.2

There are four small work regions on the software interface, it's said that four apparatus can be connect to the PC and operate by the software, and then operate one of the regions to control the corresponding apparatus.



Figure 5.3

- Move the mouse cursor to region 1 and click the mouse to active the region 1, and then click right button to display the pop-out menu.
- Point to the **System** and click to display the system setting dialog box. You can set the ip, alarm, emissivity etc on the dialog box. For more information see the 5.3 system setting.
- Point to Connect on the pop-out menu and click to begin connecting with the PC and apparatus

Intellisystem Technologies S.r.l.



Connect Disconnect	
Add	•
Clear	Þ
Data Capture	
Full Screen	

Figure 5.4

If the apparatus in the sleep mode will automatically awaken, the video will display on the screen if the connection is successful.



Figure 5.5

Click the work region 1 to zoom in the region 1 to whole work region.



Figure 5.6

5.2.2 Interface operation description

1. PlayBack

To start up the video play software. For more information see

Intellisystem Technologies S.r.l.



Intellisystem Technologies S.r.l.



Intellisystem Technologies S.r.l.





22. For spot temperature with its temperature value being measured in real-time. While the camera is in the monitoring mode, maximum four spots can be displayed with its temperature being shown respectively. Detailed description is as following:

Example: Press button S2, and move the mouse onto the monitoring frame. Click on its let key on the position you appointed, a spot with No. of 2 will be displayed, with its temperature value being shown in the result table

23. 😐

Draw the temperature line, displaying the temperature in real-time. Only

one line can be drawn while the camera is in the monitoring mode, displaying its temperature of midpoint.

Example: Press LH button and move the mouse onto the monitoring frame. Press the left key of the mouse while moving it until to a certain position and release the key. The start point of the line is where you start moving the mouse and its end point is where you release the key. Its temperature of midpoint will be displayed in the result table.



24. Area function, displaying its temperature value in real-time. While the camera is in the monitoring mode, maximum three areas are available, measuring either the maximum or minimum temperature within a rectangular. Example: Press button A2, and move the mouse onto the monitoring frame. Click on the left key of the mouse while drawing it. A rectangular will be created marked as no. 2. Its

highest temperature or the lowest temperature will be indicated in the result table.

25. Click Add in pop-out menu can also add temperature measured.

5.3. System setting

Options			×
Network Temperature Data Capture Image Setting Temperature Param Alarm Setting System Setting Video Setting PTZ Setting	- Network- IP Port	10.0.0.40 9989	



Intellisystem Technologies S.r.l.



IP address: Set IP address of the apparatus.

Note: the IP address setup must same as the current apparatus

01	tions			×
	Network Temperature Data Capture Image Setting	S1:	Emiss	Measure Type
	Temperature Param Alarm Setting System Setting Video Setting PTZ Setting	S2:	0.96	
		S3: S4:	0.96	
		L1: A1:	0.96	MAX
		A2:	0.96	MIN
		A3:	0.96	MAX

Figure 5.8

To set the emissivity of spots, line and areas .To select the display temperature type of areas.

Options			×
Network Temperature Data Capture Image Setting Temperature Param Alarm Setting System Setting Video Setting PTZ Setting	⊤Data Ca Path	pture	

Figure 5.9

Click _____ button to change the path.

Network Image Setting Temperature Video Type Image Setting Video Type Temperature Param Alarm Setting Alarm Setting Video Mode Video Setting Temp on Image YES PTZ Setting ISO Temp ISO Hight 1.00 ISO Color NONE Temp Unit Temp Unit	



Intellisystem Technologies S.r.l.

em@il: info@intellisystem.it WEB: http://www.intellisystem.it

Item	Optional	Comments	
Video Type	PAL/NTSC	Analog video output	
Video Mode	Auto/Manua I	Brightness, contrast adjustment mode	
Temp on Image	Yes/No	To show or hide the temperature result and palette.	
ISO Temp	User-defined	Isotherm temperature. Reference the 4.2.3.3	
ISO Hight	User-defined	Isotherm height Reference the 4.2.3.3	
ISO Color	User-defined	Isotherm color. Reference the 4.2.3.3	
Temp Unit	°C,F,K	To select the display unit.	

Network Temperature Data Capture Measure Class	Options	s	s			
Image Setting Refe Type None Alarm Setting Refe Temp 30.00 °C Video Setting Refe Temp 33.36 °C PTZ Setting Obj Distance 2 m Ambient Humidity 60 % Revise Param 0	Options Network Temperature Data Capture Image Setting Temperature Param Alarm Setting System Setting Video Setting PTZ Setting	s ork Cap e Se oera n Se em S o Setti	s vork perature Captur perature n Settin o Setting	g Param Ing	Temperature Param Measure Class Refe Type Refe Temp Ambient Temp Obj Distance Ambient Humidity Revise Param Bevise Temp	1 ▼ None ▼ 30.00 ℃ 33.36 ℃ 2 m 60 % 0 0

Figure 5.11

Item	Value	Comments
Measure Class	1/2	To select temperature range
Refe Type	9 optional	To select reference temperature type
Refe Temp	User-defined	To set the temperature if the Refe Type
		selected Value
Ambient Temp	User-defined	To set the ambient temperature
Obj Distance	User-defined	To set the distance from camera to object
Ambient Humidity	User-defined	To set the ambient atmospheric humidity
Revise Param	User-defined	Reference 4.2.3.2
Revise Temp	User-defined	Reference 4.2.3.2

Intellisystem Technologies S.r.l.



Optio	ns			
Net Ter Dat	twork nperature ta Capture	Alarm Setting	No	
lma Ter Ala	nge Setting nperature Param rm Setting	Local Alarm	Yes 💌	
Sy: Vid	stem Setting eo Setting	Alarm Temp	-12.20 °C	
PI	∠ setting	Alarm Color	NONE	

Figure 5.12

ltem	Value	Comments	
Remote Alarm	Yes/No	Select to active or inactive remote	
		alarm	
Local Alarm	Yes/No	Select to active or inactive local alarm	
Alarm Temp	User-defined	To set the alarm temperature	
Alarm Color	Optional	To select alarm color	

)ptions		
Network Temperature Data Capture Image Setting Temperature Param Alarm Setting System Setting Video Setting PTZ Setting	-System Setting MAC Addr Auto Adjust Time Date Time System Info Lanuage	05-60-A0-05-05-15 200 \$ 2007-6-20 14:9:52 TEST, 1060M V1.0.302,Jun 8 2007 17:22:54 English • Load Default

Figure 5.13

Item	Parameter	Comments
MAC Addr	Settled	The unique MAC address of every apparatuses set by
		manufactory
Auto Adjust	User-defined	To set the automatic calibrate time. If set 0 this function
Time		will inactive. Range (60~600)
Date Time		To display current date and time
System Info		To display system information
Language	English/Chinese	To select the display language

Intellisystem Technologies S.r.l.

Options		×
Network Temperature Data Capture Image Setting Temperature Param Alarm Setting System Setting Video Setting PTZ Setting	Video Setting Path C:\	
	Figure 5.14	
button to change f	the MEPG4 video saved path.	
0	·	_
(anti-		
Options Network Temperature Data Canture	PTZ Setting Protocol PELCO-D V	



- Protocol: To select the communication protocol with Yun terrace. Optional: PELCO-D and YAAN
- Addr: Spare address

5.4. Video play software



Figure 5.16

- Click is to display a windows dialog box, select the file that you want and then click open to play the video.
- Click to display the following dialog box.

Intellisystem Technologies S.r.l.

Capture Please select a dir to save pictures:	
Please select a dir to save pictures:	
In the section of the	
C:\Program Files\TestBoy\TV_Client\LocalPlay\P+	
Please select the format of pictures:	
O JPEG	
_ Record	
Please select a dir to save record files:	
C:\Program Files\TestBoy\TV_Client\LocalPlay\R(
_ OSD	
Please select the OSD:	
I time I Stream	Channel Info.
Video Format Setting	
© PAL C NTSC	
Apply O	OK Cancel
Figure 5.17	
0	
lick 🛄 to play the video in full screen.	
1/4	
To control the play speed	
outtons are used for controlling video play.	
• • • • • • •	

28

To capture a frame image and save to hard disk. You can set the save path via operate the settings dialog box.

Intellisystem Technologies S.r.l.



6. Trouble shooting

If you have some trouble like following, please compare with the following contents to ravel out the problem, otherwise please switch off the power supply and contact with the manufactory.

Problem	Problem reason and solution
The PC could not connect with the camera in LAN	One TT-1060MD-FTM camera only allow to connect one visitor at a time. Restart the camera and then reconnect the network.
Unable to adjust the focus	The network connection is not successful. Adjust the network and reconnect the camera. The electric connector may not be properly connected well. Verify the connection
No image at all	Forgot to remove the lens cover. → Remove the lens cover.
The thermal image turns to black and white	Whether or nor choose the black and white palette Did not calibrate the camera for long time. Calibrate the cameral
After go back default setting, the parameter different with camera and the client software.	It's necessary to reconnect the network, after go back default setting.
Add spots, line or areas by operating with camera buttons, the client software could not display the temperature, position and so on	In order to display the measured parameter you must operate on client software.
The client software could not modify the attribute of object.	The attribute only active after replace the temperature measured object.
The network connection is fail after soon switch on the camera	It will take 8 seconds to complete the self-check after the camera switch on, meantime the camera could not be connected to PC.
The network disconnect abnormal and then reconnect it, but the PC could not connect to camera.	For Ethernet reason, the camera will spend a few seconds to confirm the disconnection of network. Please reconnect the camera after 15 seconds.

Intellisystem Technologies S.r.l.

29