







#### <u>Español</u>

# Software KPS editor



Permite **ver** y **analizar** la información de temperatura contenida en las imágenes grabadas por las cámaras termográficas HIKMICRO y **generar informes**.

- Proporciona funciones de gestión, incluyendo la clasificación de materiales, añadir etiquetas, etc.
- Permite realizar mediciones múltiples, incluyendo la configuración de reglas termográficas, establecer el modo de visualización de imágenes, establecer alarmas de color, etc.
- Después del análisis, se pueden ver los resultados termográficos, guardar las imágenes o exportar el informe.



# **Principales funciones**

#### Gestión de archivos

El usuario puede cargar todos los archivos y generar carpetas de favoritos. Los archivos importados pueden ser reutilizados, clasificados, visualizados, editados y ordenados por los usuarios.

#### Análisis de imágenes

Después de importar los archivos, se pueden analizar en el módulo de análisis. Incluye análisis termográfico, análisis de imágenes, guardar y exportar informes.

### $\mathcal{Q}$

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#### Análisis de video

Permite estudiar la evolución de la temperatura para cualquier punto o zona del video (máx./mín./central)

#### Vista en vivo

Análisis en directo mediante la conexión de las cámaras termográficas





### Barra de opciones





### Herramientas de análisis

![](_page_6_Picture_1.jpeg)

Temperature Analysis ×						
Measurement	5		~	١٥٢		
Name 🗘	Max.	Min.	Avg./Cent.	ŶĬŶ		
Image	53.2 °C	30.6 °C	36.0/ 36.9 °C	6		
L1	48.4 °C	38.9 °C	42.5 °C	UD		
R1	53.2 °C	36.3 °C	45.4 °C			
R2	48.9 °C	33.4 °C	39.1 °C			

Cuando los parámetros de medición de las herramientas de análisis difieran de los parámetros de la imagen, el nombre de la herramienta de medición se marcará con un \* al principio.

Measurement Parameters -	R2 ∨ 💮 2 ∨
Emissivity	0.80 1
Distance	1.0 m
Reflected Temp.	22.5 °C
Alarm Type	Disabled $\checkmark$

Measurement Parameters -	R2 ~	~
Emissivity	0.96	
Distance	1.0 m	
Reflected Temp.	22.5 °C	
Alarm Type	Disabled	

1.	Cambio de la	
	emisividad de R2	
	de 0.96 a 0.80.	(
2.	Clic en el botón	

"Reset"

Temperature Analysis ×					
Measurement	5		~	١٩٢	
Name 🗘	Max.	Min.	Avg./Cent.	ŶIŶ	
Image	53.2 °C	30.6 °C	36.0/ 36.9 °C		
L1	48.4 °C	38.9 °C	42.5 °C	Π.	
R1	53.2 °C	36.3 °C	45.4 °C		
*R2	53.4 °C	35.4 °C	42.2 °C		

#### Shortcut keys for measurement tools

Shortcut Key	Function
↑ (up arrow)	Move up a measurement tool.
↓ (down arrow)	Move down a measurement tool.
←(left arrow)	Move left a measurement tool.
→(right arrow)	Move right a measurement tool.
Delete	Delete a measurement tool.

![](_page_7_Picture_1.jpeg)

![](_page_7_Picture_2.jpeg)

![](_page_8_Picture_1.jpeg)

Image Informati	on			-	_	
			7/17	696	_	Análisis de temperatu
-				Ŷ	L	
Temperature An	alysis					
Measurements						
Name 🗘	Max.	Min.	Avg./Cent.			
Image R1	497.4 °C	~55.8 °C ~76.6 °C	298.9/ 481.1 °C			
Area Calculation						
Pixel Pitch	Focal Leng	th D	istance			
17 μm	25.0 mm		7.53 m			
R1		898,117 mm <sup>2</sup>				
Image Parameter	s					
Atmospheric Ter	np.	18.3 °C				
Humidity		60%				
IR Window Paran	neters					
External Optical	Transmittance	1.00				
External Optical	lemperature	20.0 °C				
Measurement Pa	r <b>ameters -</b> R1					
		0.95				
Emissivity		0.00				
Emissivity Distance		4.0 m				
Emissivity Distance Reflected Temp.		4.0 m 20.0 °C				

![](_page_9_Picture_1.jpeg)

![](_page_9_Picture_2.jpeg)

![](_page_10_Picture_1.jpeg)

![](_page_10_Picture_2.jpeg)

### Etiquetas

![](_page_11_Picture_1.jpeg)

	Tag Note Template Settings					×	
	Template (1)			Import 🕁	⊥ Export	+ New	
	Device Name	Last Modified				🖒 Edit	Nueva plantilla
Lista de	🗐 General.json	2024.01.30 15:43:17 <b>с</b> Љ Ѿ	□ □ Location				
etiquetas			O Building A				
			O Building B				
			Building C				
		)	🗍 Equipment				
			O Motor				
			Electrical Panel				
			O Breaker				
			Transformer				
			🗍 Load				
			O 600V, 100A				
			600V, 60A				
			O 240V, 15A				
			□ Fault Rating				
			O Potential Deficiency: Investigation Required				
			O Repair Required				

### Configuración guardado de imágenes

![](_page_12_Picture_1.jpeg)

![](_page_12_Picture_2.jpeg)

![](_page_12_Picture_4.jpeg)

### Análisis de video

![](_page_13_Picture_1.jpeg)

![](_page_13_Figure_2.jpeg)

### Generación de informes

![](_page_14_Picture_1.jpeg)

#### Termografía en campo **Análisis** Reporte Test Report Test Point Basic Information Capture Time: Jan. 28 2021 Device Model: HM-TP23-10VF/W-M30 Device Serial No.: HM-TP23-10VF/W-M3020201105AAWRF06413844 ermography Point 1 emp. 54 56% ine and Area rule istance: 1.00Mer fumidity: 50% vironment Temperature: 25.00°C Reflective Temperature: 25.00\*C Test Point

### Generación de informes

![](_page_15_Picture_1.jpeg)

Haz clic en "OK" para generar un informe con todas las imágenes en la lista de tareas.

![](_page_15_Picture_3.jpeg)

![](_page_15_Picture_4.jpeg)

Environment Inform	ation		
Address	1	Capture Time	2023-05-14 15:35:50
Device Name		Image No.	HM20230514153549202306 29200549.jpeg
Rated Current		Load Current	
Device No.	K 51990485	Device Model	SP60
Emissivity	0.97	Distance	1.0m
Humidity	60%	Atmospheric Temp.	28.8°C
Weather		Wind speed	
*			AT
HM2023051415	3549023062900549j.peg	HM2028054455	
HM2023051415	35492023/05/90/0549/peg	Hotelast Hask	NOTACIONAL DE LA COMPANIA

# Interfaz de generación de informes

![](_page_16_Picture_1.jpeg)

KPS

![](_page_17_Picture_0.jpeg)

![](_page_17_Figure_1.jpeg)

![](_page_18_Picture_0.jpeg)

### Tablas

![](_page_18_Picture_2.jpeg)

![](_page_18_Picture_3.jpeg)

Line	Column
1	2
Display Items	
🗌 Table Title	

![](_page_18_Picture_5.jpeg)

• Máximo 10x10 para un único objeto de tabla.

### **Propiedades en tablas**

![](_page_19_Picture_1.jpeg)

![](_page_19_Picture_2.jpeg)

### Etiquetas en el informe

![](_page_20_Picture_1.jpeg)

• Agregar un objeto - Nota de Etiqueta - en el informe. La calificación de fallo guardada también se presenta.

![](_page_20_Picture_3.jpeg)

![](_page_20_Picture_4.jpeg)

### Propiedades del documento

![](_page_21_Picture_1.jpeg)

![](_page_21_Picture_2.jpeg)

Кеу	Value
Site Name	Customer AB
Site Location	Binjiang
Date	March 29, 2024
Inspector	Victor
Email	Victor@myemail.com
Tal	

 Selecciona "Ninguno" para cambiar Key (nombre de la propiedad) y Value (propiedad) en la celda de la tabla.

Report Information Table Cell	6
Link Property	ß
None ^	
None	
Document Property	

<b>KPS</b> <sup>®</sup>
Inspection Report

Site Name	Customer AB
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Site Location Binjiang

Date March 29, 2024

Inspector Victor

![](_page_22_Picture_0.jpeg)

### Exportar informe

- Verificar o cambiar el Informe de Guardado
- 2. Exportar como un Archivo PDF
- 3. Exportar como un Archivo ODT Editable
- 4. Abrir Carpeta para Encontrar el Informe

![](_page_22_Figure_6.jpeg)

### Guardar plantilla de informe

![](_page_23_Picture_1.jpeg)

#### **A**KPS

![](_page_23_Figure_3.jpeg)

#### **AKPS**

![](_page_23_Picture_5.jpeg)

### Interfaz de vista en directo

**KPS** 

- Barra de herramientas para análisis en tiempo real
- 2. Conexiones de cámara a través de USB
- 3. Comandos en la cámara y transmisión
- 4. Transmisión radiométrica en vivo
- 5. Herramientas de edición de imágenes
- 6. Mediciones y parámetros

![](_page_24_Picture_8.jpeg)

![](_page_24_Picture_9.jpeg)

![](_page_25_Picture_0.jpeg)

![](_page_26_Picture_0.jpeg)

#### <u>English</u>

# **KPS** editor software

![](_page_26_Picture_3.jpeg)

Allows you to view and analyse the temperature information contained in the images recorded by HIKMICRO thermal imaging cameras and generate reports.

- Provides management functions, including sorting materials, adding labels, etc.
- Allows for multiple measurements, including setting of thermographic rulers, setting of image display mode, setting of colour alarms, etc..
- After the analysis, you can view the thermographic results, save the images or export the report.

![](_page_27_Picture_0.jpeg)

# Main functions

#### File management

The user can upload all files and generate favorite folders. The imported files They can be reused, classified, viewed, edited and sorted by users.

#### Image analysis

After importing the files, they can be analyzed in the analysis module. It includes analysis thermographic, image analysis, saving and exporting reports.

![](_page_27_Picture_6.jpeg)

#### Video analysis

Allows you to study the evolution of temperature for any point or area of the video (max/min/center)

![](_page_27_Picture_9.jpeg)

#### Live view

Live analysis by connecting thermal imaging cameras

![](_page_28_Picture_0.jpeg)

![](_page_29_Figure_0.jpeg)

![](_page_30_Picture_0.jpeg)

Cancel

Zoom and image

Temp. Info Overlay

Enable 📀

🗹 Max. 🛛 🔽 Min.

~

Т

### **Options bar** Delete Settings of tools

![](_page_30_Figure_2.jpeg)

![](_page_30_Figure_3.jpeg)

overlap

![](_page_30_Figure_4.jpeg)

![](_page_31_Picture_0.jpeg)

### Analysis tools

Temperature A	Analysis		×	2	When th
Measurements			~		tools dif
Name 🗘	Max.	Min.	Avg./Cent.	ŶĬŶ	the mea
Image	53.2 °C	30.6 °C	36.0/ 36.9 °C		heainni
L1	48.4 °C	38.9 °C	42.5 °C	92	beginnin
R1	53.2 °C	36.3 °C	45.4 °C		
R2	48.9 °C	33.4 °C	39.1 °C		
					- 1
				-	
Measurement P	arameters -	R2 ∨ ⊙	2 ~	1. (	Change of the
Emissivity			~		emissivity of R2
Distance		1.0 m			from 0.06 to 0.90
Reflected Tem	n	22.5 °C		-	110111 0.96 to 0.80.
Alarm Type	p.	Disabled		2.0	Click the "Reset"
					button
					Satton
Measurement P	arameters -	R2 ~	~		
Emissivity		0.96			
Distance		1.0 m			
Reflected Tem	o.	22.5 °C			
Alarm Type		Disabled			

When the measurement parameters of the analysis tools differ from the image parameters, the name of the measurement tool will be marked with a \* at the beginning.

2

	Temperature	Analysis		×	5
	Measurement	s		~	Yer
	Name 🗘	Max.	Min.	Avg./Cent.	ŶĬŶ
	Image	53.2 °C	30.6 °C	36.0/ 36.9 °C	-
	L1	48.4 °C	38.9 °C	42.5 °C	η αρ
ן	R1	53.2 °C	36.3 °C	45.4 °C	
	*R2	53.4 °C	35.4 °C	42.2 °C	

#### Shortcut keys for measurement tools

Shortcut Key	Function
↑ (up arrow)	Move up a measurement tool.
↓ (down arrow)	Move down a measurement tool.
←(left arrow)	Move left a measurement tool.
→(right arrow)	Move right a measurement tool.
Delete	Delete a measurement tool.

ENG

### **KPS**<sup>®</sup>

### **Properties panel**

![](_page_32_Picture_2.jpeg)

### KPS®

### **Properties panel**

Temperature Analysis       ×         Measurements       ×         Name       Max.       Min.       Avg./Cent.         Image       497.4 °C       ~55.8 °C       298.9/ 481.1 °C         R1       497.4 °C       ~76.6 °C       309.9 °C         Area Calculation       ×         Pixel Pitch       Focal Length       Distance         17 µm       25.0 mm       7.53 m         R1       898.117 mm²       ×         Image Parameters       ×         Atmospheric Temp.       18.3 °C         Humidity       60%         IR Window Parameters       ×         External Optical Transmittance       1.00         External Optical Temperature       20.0 °C         Measurement Parameters       ×         Pristance       4.0 m         Distance       4.0 m	and the second s		
Measurements       V         Name       Max.       Min.       Avg./Cent.         Image       497.4 °C       ~55.8 °C       298.9/ 481.1 °C         R1       A97.4 °C       ~76.6 °C       309.9 °C         Area Calculation       V         Pixel Pitch       Focal Length       Distance         17 µm       25.0 mm       7.53 m         R1       898.117 mm²       V         Image Parameters       V         Atmospheric Temp.       18.3 °C         Humidity       60%       V         IR Window Parameters       V         External Optical Transmittance       1.00         External Optical Temperature       20.0 °C         Measurement Parameters - R1 V       V         Emissivity       0.85       V	emperature Analysis	×	
NameMax.Min.Avg./Cent.Image497.4 °C~55.8 °C298.9/ 481.1 °CR1497.4 °C~76.6 °C309.9 °CArea CalculationPixel PitchFocal LengthDistance17 µm25.0 mm7.53 mR1898.117 mm²Image ParametersAtmospheric Temp.18.3 °CHumidity60%IR Window ParametersExternal Optical Transmittance1.00External Optical Transmittance1.00External Optical Transmittance1.00External Optical Transmittance1.00External Optical Transmittance1.00External Optical Transmittance1.00External Optical Transmittance1.00 °CMeasurement Parameters -R1 ×Patientiel Temp.0.85 ×Distance4.0 m	leasurements		
Image       497.4 °C       ~55.8 °C       298.9/ 481.1 °C         R1       497.4 °C       ~76.6 °C       309.9 °C         Area Calculation       v         Pixel Pitch       Focal Length       Distance         17 µm       25.0 mm       7.53 m         R1       898.117 mm²         Image Parameters       v         Atmospheric Temp.       18.3 °C         Humidity       60%         IR Window Parameters       v         External Optical Transmittance       1.00         External Optical Temperature       20.0 °C         Measurement Parameters - R1 ×       v         Emissivity       0.85         Distance       4.0 m         Distance       4.0 m	Name 🗢 Max. Mi	n. Avg./Cent.	
Area Calculation   Pixel Pitch   Focal Length   Distance   17 µm   25.0 mm   7.53 m   R1   898,117 mm²   Image Parameters   Atmospheric Temp.   18.3 *C   Humidity   60%   IR Window Parameters   1.00   External Optical Transmittance   20.0 *C   Measurement Parameters - R1 × ×	Image 497.4 °C ~55.	8 °C 298.9/ 481.1 °C	
Area Calculation       ×         Pixel Pitch       Focal Length       Distance         17 μm       25.0 mm       7.53 m         R1       898,117 mm²         Image Parameters       ×         Atmospheric Temp.       18.3 °C         Humidity       60%         IR Window Parameters       ×         External Optical Transmittance       1.00         External Optical Transmittance       20.0 °C         Measurement Parameters - R1 ×       ×         Priservity       0.85         Distance       4.0 m         Definated Termp       20.0 °C			
Pixel PitchFocal LengthDistance17 μm25.0 mm7.53 mR1898,117 mm²Image Parameters×Atmospheric Temp.18.3 °CHumidity60%IR Window Parameters×External Optical Transmittance1.00External Optical Temperature20.0 °CMeasurement Parameters -R1 ×R1 ××Pistance4.0 mParameters20.0 °C	rea Calculation		
17 μm       25.0 mm       7.53 m         R1       898,117 mm²         Image Parameters       ×         Atmospheric Temp.       18.3 °C         Humidity       60%         IR Window Parameters       ×         External Optical Transmittance       1.00         External Optical Temperature       20.0 °C         Measurement Parameters - R1 ×       ×         Emissivity       0.85         Distance       4.0 m         Defended Temp       20.0 °C	xel Pitch Focal Length	Distance	
R1     898,117 mm²       Image Parameters     V       Atmospheric Temp.     18.3 °C       Humidity     60%       IR Window Parameters     V       External Optical Transmittance     1.00       External Optical Temperature     20.0 °C       Measurement Parameters -     R1 V       Emissivity     0.85       Distance     4.0 m       Stance     4.0 m	7 μm 25.0 mm	7.53 m	
Image Parameters       ×         Atmospheric Temp.       18.3 °C         Humidity       60%         IR Window Parameters       ×         External Optical Transmittance       1.00         External Optical Temperature       20.0 °C         Measurement Parameters - R1 ×       ×         Emissivity       0.85         Distance       4.0 m         Parameter       20.0 °C	1 898,11	7 mm²	
Atmospheric Temp.       18.3 °C         Humidity       60%         IR Window Parameters       ~         External Optical Transmittance       1.00         External Optical Temperature       20.0 °C         Measurement Parameters - R1 ~       ~         Emissivity       0.85 ~         Distance       4.0 m         Parameters       20.0 °C	nage Parameters		
Humidity     10.5 C       Humidity     60%       IR Window Parameters     60%       External Optical Transmittance     1.00       External Optical Temperature     20.0 °C       Measurement Parameters -     R1 ∨       Emissivity     0.85       Distance     4.0 m       Publical Temperature     20.0 °C	Atmospheric Temp 183 °C		
IR Window Parameters       V         External Optical Transmittance       1.00         External Optical Temperature       20.0 °C         Measurement Parameters -       R1 V         Emissivity       0.85         Distance       4.0 m         Performer       20.0 °C	Humidity 60%		
External Optical Transmittance       1.00         External Optical Temperature       20.0 °C         Measurement Parameters -       R1 ∨       ∨         Emissivity       0.85       ∨         Distance       4.0 m       20.0 °C	Window Parameters		
External Optical Temperature     20.0 °C       Measurement Parameters - R1 V     V       Emissivity     0.85 V       Distance     4.0 m       Performed Temperature     20.0 °C	External Optical Transmittance 1.00		
Measurement Parameters - R1 ×       ×         Emissivity       0.85       ×         Distance       4.0 m       ×         Reflected Temp       20.0 %       ×	External Optical Temperature 20.0 °C	c	
Measurement Parameters       R1 ×       ×         Emissivity       0.85       ×         Distance       4.0 m       ×         Reflected Temp       20.0 %       ×			
Emissivity 0.85 V Distance 4.0 m	leasurement Parameters - R1 🗡		
Distance 4.0 m	Emissivity 0.85		
Poflasted Tomp 20.0 °C	Distance 4.0 m		
Relected temp. 200 C	Reflected Temp. 20.0 °C	C	
Alarm lype Disabled V	Alarm lype Disable	ed 🗸	

![](_page_34_Picture_0.jpeg)

### **Properties panel**

![](_page_34_Figure_2.jpeg)

![](_page_34_Picture_3.jpeg)

![](_page_34_Picture_4.jpeg)

• The 3D graph can be rotated to view it from different angles.

![](_page_35_Picture_0.jpeg)

### **Properties panel**

![](_page_35_Picture_2.jpeg)

### Tags

![](_page_36_Picture_1.jpeg)

![](_page_36_Picture_2.jpeg)

![](_page_37_Picture_0.jpeg)

### Image saving settings

![](_page_37_Picture_2.jpeg)

### Video analysis

![](_page_38_Picture_1.jpeg)

![](_page_38_Figure_2.jpeg)

### Reporting

#### Field thermography

![](_page_39_Picture_3.jpeg)

![](_page_39_Picture_4.jpeg)

![](_page_39_Picture_5.jpeg)

#### Report

![](_page_39_Picture_7.jpeg)

![](_page_39_Picture_8.jpeg)

### Reporting

![](_page_40_Picture_1.jpeg)

Click "OK" to generate a report with all the images in the task list.

![](_page_40_Picture_3.jpeg)

![](_page_40_Picture_4.jpeg)

Environment Inform	ation		
Address		Capture Time	2023-05-14 15:35:50
Device Name		Image No.	HM20230514153549202306 29200549.jpeg
Rated Current		Load Current	
Device No.	K51990485	Device Model	SP60
Emissivity	0.97	Distance	1.0m
Humidity	60%	Atmospheric Temp.	28.8°C
Weather		Wind speed	
*			AI
HM2023051415	354920230629200549j.peg	Mozensa Jana	inconcepts
HM2023051415	154922002900569(jag	HU20205141554 Aligned	r Kalange Kalange

![](_page_41_Picture_0.jpeg)

## **Reporting interface**

![](_page_41_Picture_2.jpeg)

![](_page_42_Picture_0.jpeg)

![](_page_42_Figure_1.jpeg)

![](_page_43_Picture_0.jpeg)

### Tables

![](_page_43_Picture_2.jpeg)

![](_page_43_Picture_3.jpeg)

Line	Column
1	2
Display Items	
🗌 Table Title	

🔽 Table Title

![](_page_43_Picture_5.jpeg)

• Maximum 10x10 for a single table object.

### **Properties in tables**

![](_page_44_Picture_1.jpeg)

![](_page_44_Picture_2.jpeg)

### Tags in the report

• Add an object - Tag Note - to the report. The saved failure rating is also presented.

Analysis Report Live

![](_page_45_Picture_4.jpeg)

![](_page_45_Picture_5.jpeg)

### **Document Properties**

![](_page_46_Picture_1.jpeg)

![](_page_46_Picture_2.jpeg)

Document Property	
Key	Value
Site Name	Customer AB
Site Location	Binjiang
Date	March 29, 2024
Inspector	Victor
Email	Victor@myemail.com
Tal	
	OK Cancel

• Select "None" to change Key (property name) and Value (property) in the table cell.

Report Information Table Cell	[ø
Link Property	ß
None ^	
None	
Document Property	

![](_page_46_Picture_6.jpeg)

Site Name Customer AB

Site Location Binjiang

Date March 29, 2024

Inspector Victor

![](_page_47_Picture_0.jpeg)

## Export report

Check or change the Save Report
 Export as a PDF File
 Export as an Editable ODT File
 Open Folder to Find the Report

![](_page_47_Picture_3.jpeg)

### Save report template

![](_page_48_Picture_1.jpeg)

#### **A**KPS

![](_page_48_Figure_3.jpeg)

#### **KPS**

![](_page_48_Picture_5.jpeg)

![](_page_49_Picture_0.jpeg)

### Live view interface

- 1. Real-time analysis toolbar
- 2. Camera connections via USB
- 3. Camera commands and streaming
- 4. Live radiometric transmission
- 5. Image editing tools
- 6. Measurements and parameters

🜖 Library Analysis Report **Live** 

![](_page_49_Picture_9.jpeg)

![](_page_50_Picture_0.jpeg)