

視覺感測器 AI 智能相機

Visual sensor

AI Smart camera



操作簡單 一分鐘搞定

IT'S EASY TO OPERATE AND
CAN BE DONE IN JUST ONE MINUTE.

Linux操作系統 穩定可靠

THE LINUX OPERATING
SYSTEM IS STABLE AND RELIABLE.

超高性價比 降低使用成本

ULTRA-HIGH COST PERFORMANCE
REDUCES THE COST OF USE.

自動化機器視覺核心產品供應商

SUPPLIER OF CORE PRODUCTS FOR AUTOMATED MACHINE VISION.



www.hunson.com.tw



公司簡介 | ABOUT US

自動化機器視覺核心產品供應商，專注於嵌入式硬體技術、底層算法軟體，致力於產品標準化，操作簡單化，以及批量生產帶來的成本優勢，推動機器視覺在自動化領域的快速普及。產品廣泛應用於3C、電子半導體、物流等工業自動化領域。實現測量、缺陷檢測、定位引導、讀碼、OCR識別等多種應用。

Hunson Vision is focused on being a core supplier of automated machine vision products. We concentrate on embedded hardware technology and foundational algorithm software, aiming for product standardization, simplified operation, and cost advantages from mass production. This helps promote the rapid adoption of machine vision in the automation field. Our products are widely used in industrial automation sectors like 3C, electronics semiconductors, and logistics, enabling a variety of applications such as measurement, defect detection, positioning guidance, barcode reading, and OCR recognition.

公司主營產品

HN100系列智能相機

HN200系列視覺感測器

HN300系列智能相機

HN400系列智能相機

HN500系列智能相機

HN-080系列

AI 智能相機 | AI SMART CAMERA



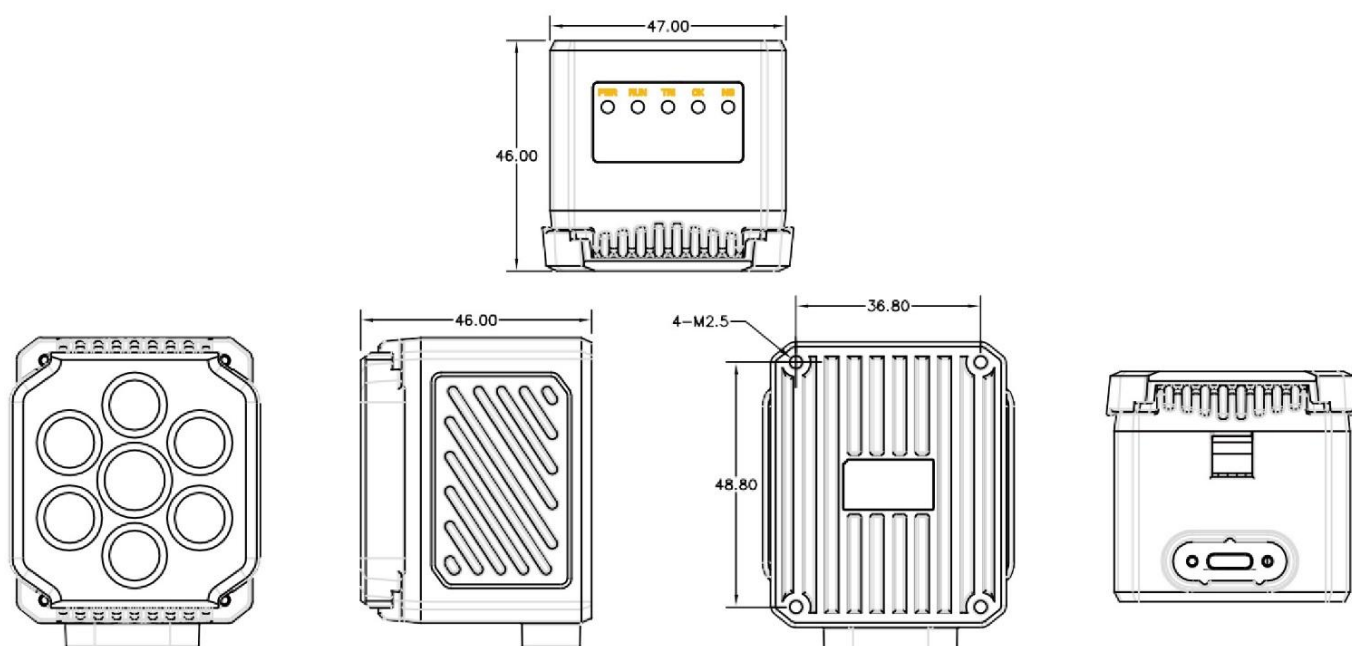
性能特點 PERFORMANCE

- 1、採用嵌入式硬體平台，運行穩定，速度快
 - It adopts an embedded hardware platform, which operates stably and at a high speed.
- 2、內建視覺算法，可實現正反，有無，尺寸，顏色識別，位置等檢測
 - It has built-in visual algorithms that can achieve detections such as front and back, presence or absence, size, color recognition, and position.
- 3、搭載四核高性能ARM處理器
 - Equipped with a quad-core high-performance ARM processor.
- 4、2GB DDR4內存
 - 2GB DDR4 memory
- 5、32GB EMMC儲存器
 - 32GB DDR4 memory
- 6、1路RS232/1路GigE乙太網
 - 1-channel RS232 / 1-channel Gigabit Ethernet
- 7、LVDS/USB2.0
 - LVDS (Low-Voltage Differential Signaling) / USB2.0 (Universal Serial Bus 2.0)
- 8、1路輸入/3路輸出，帶光耦隔離
 - 1-channel input / 3-channel output, with optocoupler isolation.
- 9、豐富的狀態指示燈，用於安裝調適和狀態顯示
 - There are abundant status indicator lights, which are used for installation, debugging and status display.
- 10、內建M12鏡頭，支援機械調焦，便於現場調試
 - It has a built-in M12 lens and supports mechanical focusing, which is convenient for on-site debugging.
- 11、內建光源，支援閃頻
 - Built-in light source, supporting stroboscopic function.
- 12、IP67防護，適應惡劣的工業環境
 - With an IP67 protection rating, it is suitable for harsh industrial environments.

技術參數 TECHNICAL PARAMETERS

參數 Parameters	型號 Parameters	HN-080SC003CIR-4 (彩色)	HN-080SC003CIR-8 (彩色)	HN-080SC003CIR-16 (彩色)	HN-080SC013CIR-8 (彩色)	HN-080SC013CIR-16 (彩色)
算法功能 Algorithm functions	內建視覺演算法，搭配AI模型學習，可實現正反、方向、有無、尺寸、位置、顏色辨識等檢測 It has built-in visual algorithms and comes with AI model learning, which can achieve detections such as recognizing the front and back, direction, presence or absence, size, position and color.					
分辨率 Definition		640*480	640*480	640*480	1280*960	1280*960
最大幀率 Maximum frame rate		120fps	120fps	120fps	60fps	60fps
系統架構 System architecture	ARM 2GHz 四核處理器 Quad-core ARM processor running at 2GHz.					
內存 RAM	2GB DDR4					
儲存器 Memory	32GB EMMC					
數字I/O Digital I/O	數位I/O接口，1路光耦隔離的GPI輸入，3路光耦隔離的GPO輸出，1路RS232串口 Digital I/O interface, with 1 channel of optocoupler-isolated GPI (General Purpose Input) input, 3 channels of optocoupler-isolated GPO (General Purpose Output) output, and 1 channel of RS232 serial port.					
影像輸出 Video output	LVDS接口 LVDS interface					
USB	1路USB2.0 One channel of USB2.0					
供電 Power feeding	DC 24V					
功耗 Power consumption	12W					
鏡頭接口 Lens mount	M12 機械對焦 M12 mechanical focusing					
光源 Light source	內建光源 Built-in light source					
IP等級 IP rating	IP67					
環境溫度 Ambient temperature	0-50℃					
環境濕度 Ambient humidity	20%~95%PH無冷凝 20%~95% RH Relative Humidity					

產品尺寸 PRODUCT SIZE



HN-100系列 視覺感測器 | VISION CAMERA



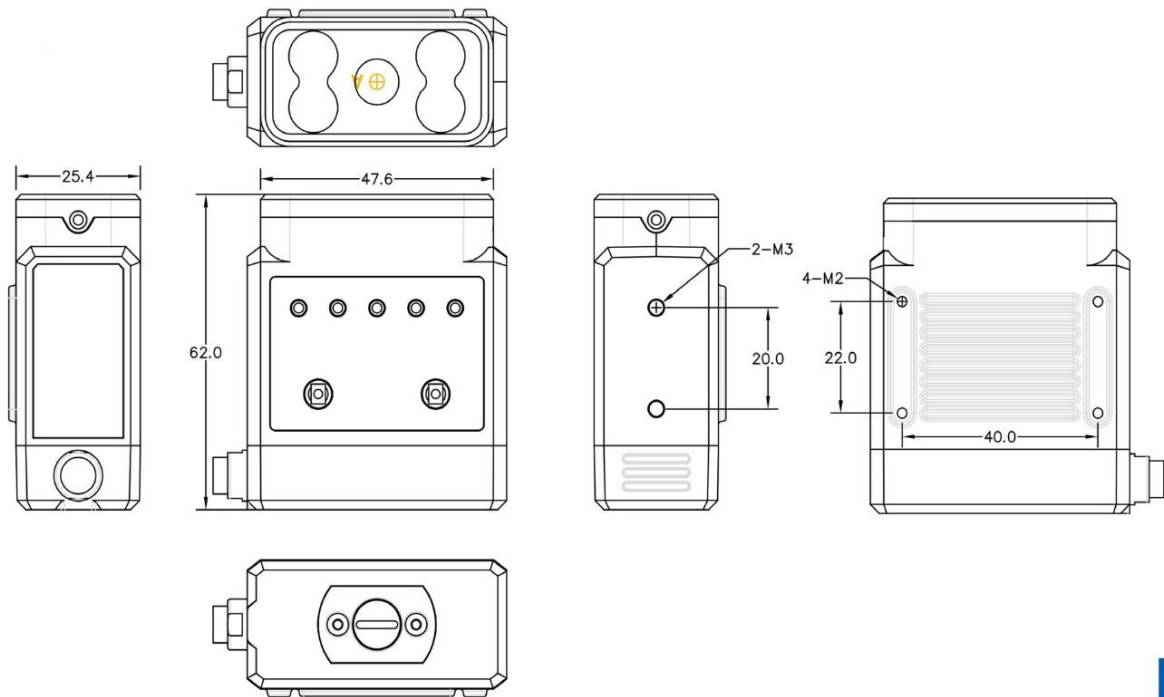
性能特點 PERFORMANCE

- 1、採用嵌入式硬體平台，運行穩定，速度快
 - It adopts an embedded hardware platform, which operates stably and at a high speed.
- 2、內建視覺算法，可實現正反，有無，尺寸，顏色識別，位置等檢測
 - It has built-in visual algorithms that can achieve detections such as front and back, presence or absence, size, color recognition, and position.
- 3、搭載四核高性能ARM處理器
 - Equipped with a quad-core high-performance ARM processor.
- 4、2GB DDR4內存
 - 2GB DDR4 memory
- 5、16GB EMMC儲存器
 - 16GB DDR4 memory
- 6、1路RS232/1路GigE乙太網
 - 1-channel RS232 / 1-channel Gigabit Ethernet
- 7、HDMI/USB2.0
 - HDMI (High-Definition Multimedia Interface) / USB2.0 (Universal Serial Bus 2.0)
- 8、1路輸入/3路輸出，帶光耦隔離
 - 1-channel input / 3-channel output, with optocoupler isolation.
- 9、豐富的狀態指示燈，用於安裝調試和狀態顯示
 - There are abundant status indicator lights, which are used for installation, debugging and status display.
- 10、內建M12鏡頭，支援機械調焦，便於現場調試
 - It has a built-in M12 lens and supports mechanical focusing, which is convenient for on-site debugging.
- 11、內建光源，支援閃頻
 - Built-in light source, supporting stroboscopic function.
- 12、IP67防護，適應惡劣的工業環境
 - With an IP67 protection rating, it is suitable for harsh industrial environments.

技術參數 TECHNICAL PARAMTERS

參數 Parameters	型號 Parameters	HN-100SC013MOR (黑白)	HN-100SC003COR (彩色)
算法功能 Algorithm functions		內建視覺算法，可實現正反、方向，有無、尺寸、位置、顏色識別等檢測 Built-in visual algorithms can achieve detections such as identifying the front and back sides, directions, presence or absence, sizes, positions, and colors.	
分辨率 Definition		1280*1024	640*480
最大幀率 Maximum frame rate		60fps	60fps
系統架構 System architecture		ARM 2GHz 四核處理器 Quad-core ARM processor running at 2GHz.	
內存 RAM		2GB DDR4	
儲存器 Memory		16GB EMMC	
數位I/O Digital I/O		數位I/O接口，1路光耦隔離的GPI輸入，3路光隔離的GPO輸出，1路RS232串口 Digital I/O interface, with 1 channel of optocoupler-isolated GPI (General Purpose Input) input, 3 channels of optocoupler-isolated GPO (General Purpose Output) output, and 1 channel of RS232 serial port.	
影像輸出 Video output		LVDS接口 LVDS interface	
USB		1路USB2.0 One channel of USB2.0	
供電 Power feeding		DC 24V	
功耗 Power consumption		12W	
鏡頭接口 Lens mount		M12 機械對焦 M12 mechanical focusing	
光源 Light source		內建光源 Built-in light source	
IP等級 IP rating		IP67	
環境溫度 Ambient temperature		0-50℃	
環境濕度 Ambient humidity		20%~95%PH無冷凝 20%~95% RH Relative Humidity	

產品尺寸 PRODUCT SIZE



HN-200系列 視覺感測器 | VISION CAMERA



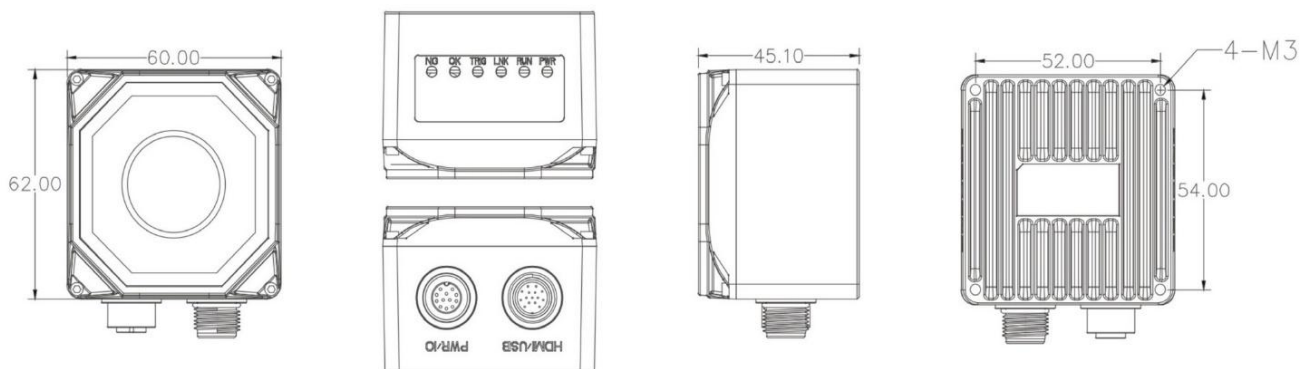
性能特點 PERFORMANCE

- 1、採用嵌入式硬體平台，運行穩定，速度快
 - It adopts an embedded hardware platform, which operates stably and at a high speed.
- 2、內建視覺算法，可實現正反，有無，尺寸，顏色識別，位置等檢測
 - It has built-in visual algorithms that can achieve detections such as front and back, presence or absence, size, color recognition, and position.
- 3、搭載四核高性能ARM處理器
 - Equipped with a quad-core high-performance ARM processor.
- 4、2GB DDR4內存
 - 2GB DDR4 memory
- 5、16GB EMMC儲存器
 - 16GB DDR4 memory
- 6、1路RS232/1路GigE乙太網
 - 1-channel RS232 / 1-channel Gigabit Ethernet
- 7、HDMI/USB2.0
 - HDMI (High-Definition Multimedia Interface) / USB2.0 (Universal Serial Bus 2.0)
- 8、2路輸入/5路輸出，帶光耦隔離
 - 1-channel input / 3-channel output, with optocoupler isolation.
- 9、豐富的狀態指示燈，用於安裝調試和狀態顯示
 - There are abundant status indicator lights, which are used for installation, debugging and status display.
- 10、內建M12鏡頭，支援機械調焦，便於現場調試
 - It has a built-in M12 lens and supports mechanical focusing, which is convenient for on-site debugging.
- 11、內建光源，支援閃頻
 - Built-in light source, supporting stroboscopic function.
- 12、IP67防護，適應惡劣的工業環境
 - With an IP67 protection rating, it is suitable for harsh industrial environments.

技術參數 TECHNICAL PARAMETERS

參數 Parameters	型號 Parameters	HN-200SC013CIR-16 (標準型)	HN-200SC013CIR-08 (廣視野型)
算法功能 Algorithm functions	內建視覺算法，可實現正反、方向，有無、尺寸、位置、顏色識別等檢測 Built-in visual algorithms can achieve detections such as identifying the front and back sides, directions, presence or absence, sizes, positions, and colors.		
分辨率 Definition	1280*1024		1280*1024
最大幀率 Maximum frame rate	120fps		60fps
系統架構 System architecture	ARM 2GHz 四核處理器 Quad-core ARM processor running at 2GHz.		
內存 RAM	2GB DDR4		
儲存器 Memory	16GB EMMC		
網路 Internet	RTL8211F GigE乙太網 RTL8211F Gigabit Ethernet		
數位I/O Digital I/O	數位I/O接口，2路光耦隔離的GPI輸入，5路光隔離的GPO輸出，1路RS232串口 Digital I/O interface, with 1 channel of optocoupler-isolated GPI (General Purpose Input) input, 3 channels of optocoupler-isolated GPO (General Purpose Output) output, and 1 channel of RS232 serial port.		
影像輸出 Video output	HDMI接口 HDMI interface		
USB	1路USB2.0 One channel of USB2.0		
供電 Power feeding	DC 24V		
功耗 Power consumption	12W		
鏡頭接口 Lens mount	M12 機械對焦 M12 mechanical focusing		
光源 Light source	內建光源 Built-in light source		
IP等級 IP rating	IP67		
環境溫度 Ambient temperature	0-50℃		
環境濕度 Ambient humidity	20%~95%RH無冷凝 20%~95% RH Relative Humidity		

產品尺寸 PRODUCT SIZE



HN-300系列 智能相機 | SMART CAMERA



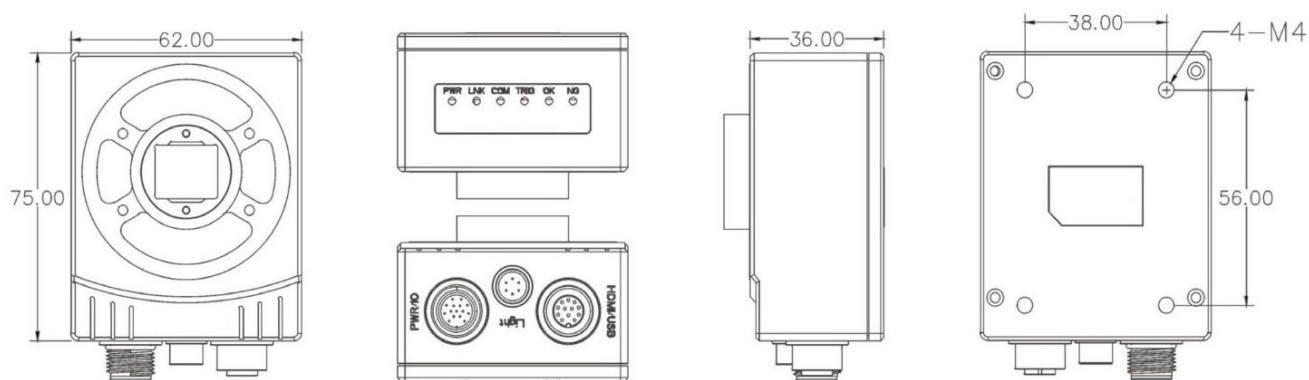
性能特點 PERFORMANCE

- 1、採用嵌入式硬體平台，運行穩定，速度快
 - It adopts an embedded hardware platform, which operates stably and at a high speed.
- 2、內建視覺算法，可實現正反，有無，尺寸，顏色識別，位置等檢測
 - It has built-in visual algorithms that can achieve detections such as front and back, presence or absence, size, color recognition, and position.
- 3、搭載四核高性能ARM處理器
 - Equipped with a quad-core high-performance ARM processor.
- 4、2GB DDR4內存
 - 2GB DDR4 memory
- 5、16GB EMMC儲存器
 - 16GB DDR4 memory
- 6、1路RS232/1路GigE乙太網
 - 1-channel RS232 / 1-channel Gigabit Ethernet
- 7、HDMI/USB2.0
 - HDMI (High-Definition Multimedia Interface) / USB2.0 (Universal Serial Bus 2.0)
- 8、2路輸入/5路輸出，帶光耦隔離
 - 1-channel input / 3-channel output, with optocoupler isolation.
- 9、豐富的狀態指示燈，用於安裝調試和狀態顯示
 - There are abundant status indicator lights, which are used for installation, debugging and status display.
- 10、內建M12鏡頭，支援機械調焦，便於現場調試
 - It has a built-in M12 lens and supports mechanical focusing, which is convenient for on-site debugging.
- 11、內建光源，支援閃頻
 - Built-in light source, supporting stroboscopic function.
- 12、IP67防護，適應惡劣的工業環境
 - With an IP67 protection rating, it is suitable for harsh industrial environments.

技術參數 TECHNICAL PARAMETERS

參數 Parameters	型號 Parameters	HN-300SC013MIR (黑白)	HN-300SC013CIR (彩色)
算法功能 Algorithm functions		內建視覺算法，可實現正反、方向、有無、尺寸、位置、顏色識別等檢測 Built-in visual algorithms can achieve detections such as identifying the front and back sides, directions, presence or absence, sizes, positions, and colors.	
分辨率 Definition		1280*1024	1280*1024
最大幀率 Maximum frame rate		120fps	60fps
系統架構 System architecture		ARM 2GHz 四核處理器 Quad-core ARM processor running at 2GHz.	
內存 RAM		2GB DDR4	
儲存器 Memory		16GB EMMC	
網路 Internet		RTL8211F GigE乙太網 RTL8211F Gigabit Ethernet	
數位I/O Digital I/O		數位I/O接口，2路光耦隔離的GPI輸入，5路光隔離的GPO輸出，1路RS232串口 Digital I/O interface, with 1 channel of optocoupler-isolated GPI (General Purpose Input) input, 3 channels of optocoupler-isolated GPO (General Purpose Output) output, and 1 channel of RS232 serial port.	
影像輸出 Video output		HDMI接口 HDMI interface	
USB		1路USB2.0 One channel of USB2.0	
供電 Power feeding		DC 24V	
功耗 Power consumption		12W	
鏡頭接口 Lens mount		C口鏡頭 C-mount lens	
光源 Light source		內建光源 Built-in light source	
IP等級 IP rating		IP67	
環境溫度 Ambient temperature		0-50°C	
環境濕度 Ambient humidity		20%~95%RH無冷凝 20%~95% RH Relative Humidity	

產品尺寸 PRODUCT SIZE



HN-400系列

AI 智能相機 | AI SMART CAMERA



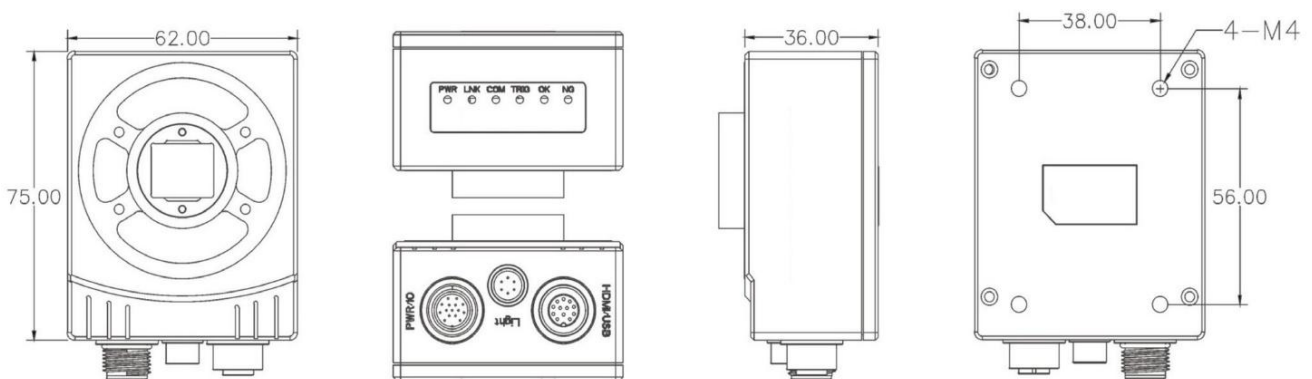
性能特點 PERFORMANCE

- 1、採用嵌入式硬體平台，運行穩定，速度快
 - It adopts an embedded hardware platform, which operates stably and at a high speed.
- 2、內建視覺算法，可實現正反，有無，尺寸，顏色識別，位置等檢測
 - It has built-in visual algorithms that can achieve detections such as front and back, presence or absence, size, color recognition, and position.
- 3、搭載八核高性能ARM處理器
 - Equipped with a octa-core high-performance ARM processor.
- 4、4GB DDR4內存
 - 4GB DDR4 memory
- 5、32GB EMMC儲存器
 - 32GB DDR4 memory
- 6、1路RS232/1路GigE乙太網
 - 1-channel RS232 / 1-channel Gigabit Ethernet
- 7、HDMI/USB2.0
 - HDMI (High-Definition Multimedia Interface) / USB2.0 (Universal Serial Bus 2.0)
- 8、2路輸入/5路輸出，帶光耦隔離
 - 1-channel input / 3-channel output, with optocoupler isolation.
- 9、豐富的狀態指示燈，用於安裝調試和狀態顯示
 - There are abundant status indicator lights, which are used for installation, debugging and status display.
- 10、C口鏡頭
 - Lens with a C-mount.
- 11、支援單幀/多幀/連續多種觸發模式
 - It supports multiple trigger modes including single-frame, multi-frame and continuous.
- 12、IP67防護，適應惡劣的工業環境
 - With an IP67 protection rating, it is suitable for harsh industrial environments.

技術參數 TECHNICAL PARAMETERS

參數 Parameters	型號 Parameters	HN-400SC013MIR (黑色)	HN-400SC013CIR-16 (彩色)	HN-400SC060MIR (黑白)	HN-400SC060CIR (彩色)
算法功能 Algorithm functions		內建自主開發的視覺算法軟體，支援AI模型學習，支援缺陷檢測、尺寸測量、定位引導、讀碼、OCR識別等多種功能 It is equipped with the visual algorithm software independently developed. It supports AI model learning and a variety of functions such as defect detection, dimension measurement, positioning guidance, code reading, and OCR recognition.			
分辨率 Definition		1280*1024	1280*1024	3072*2048	3072*2048
最大幀率 Maximum frame rate		120fps	120fps	60fps	60fps
系統架構 System architecture		ARM 2GHz 八核處理器 ARM 2.4GHz octa-core processor			
內存 RAM		4GB DDR4			
儲存器 Memory		32GB EMMC			
網路 Internet		RTL8211F GigE乙太網 RTL8211F Gigabit Ethernet			
數位I/O Digital I/O		數位I/O接口，2路光耦隔離的GPI輸入，5路光隔離的GPO輸出，1路RS232串口 Digital I/O interface, with 1 channel of optocoupler-isolated GPI (General Purpose Input) input, 3 channels of optocoupler-isolated GPO (General Purpose Output) output, and 1 channel of RS232 serial port.			
影像輸出 Video output		HDMI接口 HDMI interface			
USB		1路USB2.0 One channel of USB2.0			
供電 Power feeding		DC 24V			
功耗 Power consumption		12W			
鏡頭接口 Lens mount		C口鏡頭 C-mount lens			
光源 Light source		內建光源 Built-in light source			
IP等級 IP rating		IP67			
環境溫度 Ambient temperature		0-50℃			
環境濕度 Ambient humidity		20%~95%RH無冷凝 20%~95% RH Relative Humidity			

產品尺寸 PRODUCT SIZE



HN-TS60

觸控面板

TOUCH PANEL



HN100系列視覺感測器
HN100 VISION INTELLIGENT CAMERA



HN200系列視覺感測器
HN100 VISION INTELLIGENT CAMERA

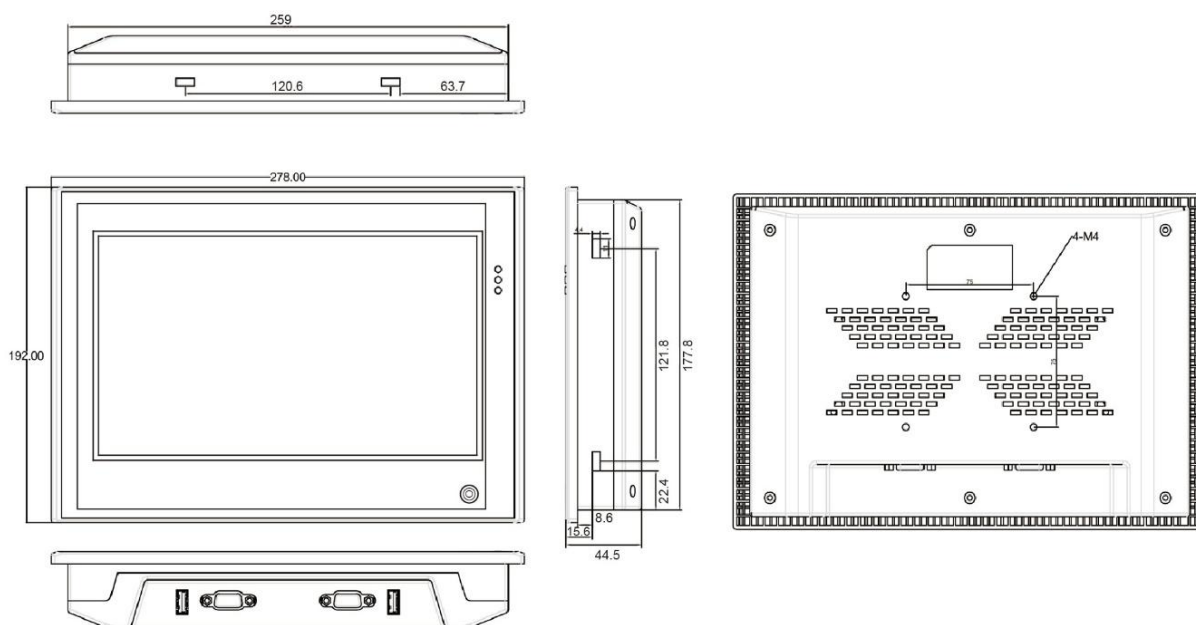


HN300系列智能相機
HN300 SERIES INTELLIGENT CAMERA

技術參數 TECHNICAL PARAMETERS

型 號 Parameters	參 數 parameter
類型 Type	HN-TS60
適用相機 Applicable cameras	HN100視覺感測器/HN200視覺感測器/HN300智能相機 HN100 vision sensor / HN200 vision sensor / HN300 intelligent camera
面板尺寸 Panel size	10.1英吋 10.1 inches
分辨率 Resolution	1024*600
指示燈 Indicator light	PWR/CH1/CH2
接口 Interface	HDMI/USB
支援相機數量 The number of cameras.	1或2 One or two
觸控方式 Touch mode	電阻 resistance
電壓 Voltage	DC24V
電流 Current	<0.2A
環境溫度 Ambient temperature	0-50℃
防護等級 Protection level	IP40
開孔尺寸 Cutout size	260.2mm X 179.8mm
重量 Weight	450g
環境濕度 Ambient humidity	20%~95%RH無冷凝 20% to 95% RH (Relative Humidity), non-condensing.

產品尺寸 PRODUCT SIZE



HNTS-60A

觸控面板

TOUCH PANEL

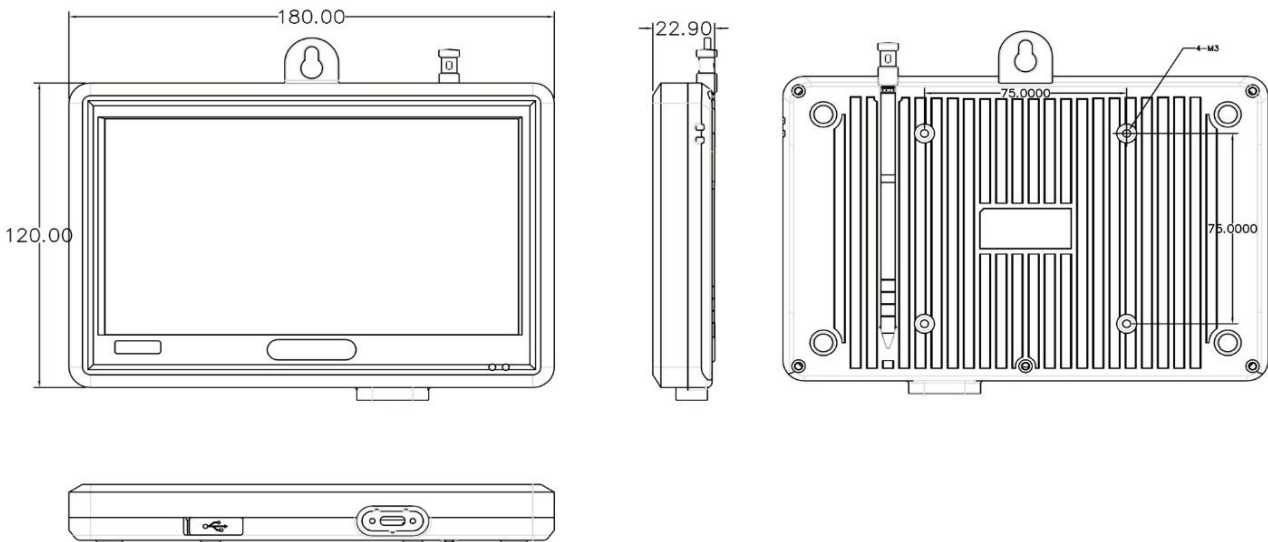


HN080 AI 系列智能相機
HN080AI SERIES INTELLIGENT CAMERA

技術參數 TECHNICAL PARAMTERS

型 號 Parameters	參 數 parameter
類型 Type	HNTS-60A
適用相機 Applicable cameras	HN080 AI智能相機 HN080 AI Intelligent Camera
面板尺寸 Panel size	7英寸 7 inches
分辨率 Resolution	1024*600
指示燈 Indicator light	PWR/觸控顯示燈 PWR/Touch display light
接口 Interface	LVDS/USB
觸控方式 Touch mode	電阻 Resistance
電壓 Voltage	DC12V
功率 Power	5W
環境溫度 Ambient temperature	0-50℃
防護等級 Protection level	IP40
開孔尺寸 Cutout size	260.2mm X 179.8mm
重量 Weight	450g
環境濕度 Ambient humidity	20%~95%PH無冷凝 20% to 95% RH (Relative Humidity), non-condensing.

產品尺寸 PRODUCT SIZE



標準模式

STANDARD MODE

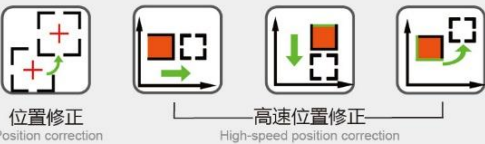
豐富的檢測工具，操作簡單，用途廣泛。RINH DETECTION TOOLS SIMPLE OPERATION WIDELY USED



工具 Tool



位置修正工具 Position correction tool

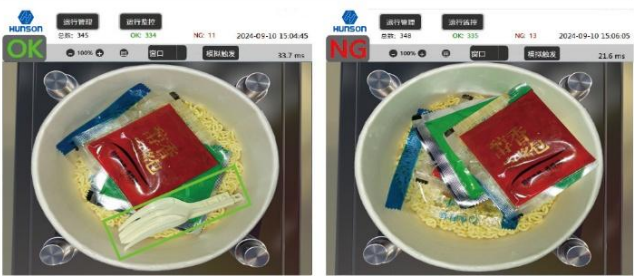


經典案例

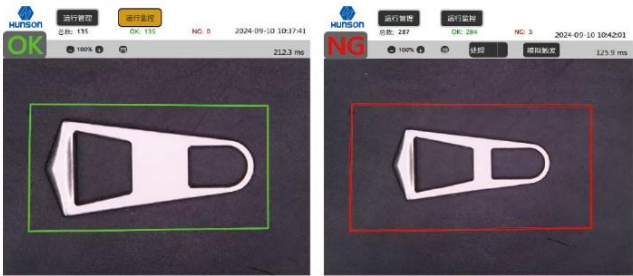
CLASSIC CASES

AI學習

AI LEARNING



輪廓 OUTLINE



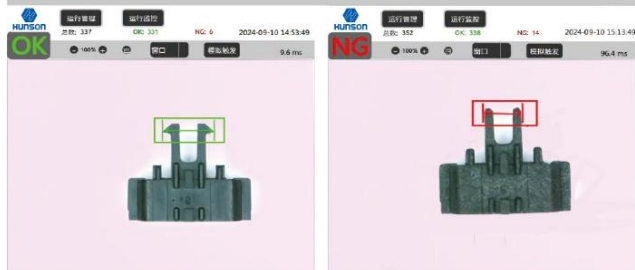
顏色面積 COLOR AREA



有無 FEATURE EXIST



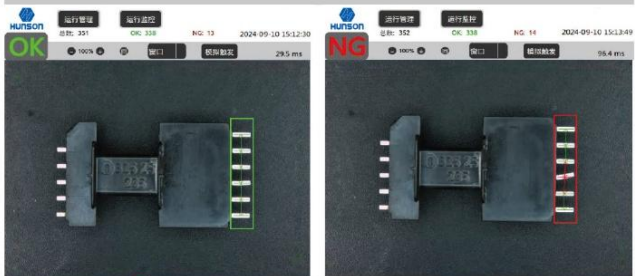
寬度 WIDTH



灰度面積 GRAYSCALE AREA



節距 PITCH



計數 COUNTING



角度 ANGLE



目標定位 TARGET LOCATION



字符(OCR) CHARACTER(OCR)



讀碼 CODE RECOGNITION





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