

Network

TNS-9050IBC

Dual Sensor BCR Camera

Key Features

- 4K Image Resolution
- Dual Sensor Color + mono
- 25mm Focal Length
- IP67, IP66, IK10 Rated
- AI-powered location search reliably reads 1D codes on conveyor belts moving up to 2m/s.
- Eliminates manual errors, boosts speed, and provides full traceability to reduce returns.
- Reads 1D code and 2D code for multiple orientations and supports high data storage capacity for complex workflows.

Design and specifications are subject to change without notice. The latest product information / specification can be found at HanwhaVision.com
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Specifications

Video		MONO	COLOR
Imaging Device	Size	1"	
	Type	CMOS	
Resolution		4096x2160	4096x2160, 640x360
Max. Framerate	H.265/H.264	20fps/20fps(60Hz/50Hz)	
Pixel Size		3.45㎛	

Lens			
Focal Length (mm)		25mm	
Max Aperture Ratio (F number)	Wide	F8.0	
Angular Field of View	Horizontal	H30.4°	30.4°
	Vertical	16.6°	
	Diagonal	34.2°	
Min. Object Distance		0.15m (0.49ft)	
Focus Control		Manual	
Lens Type		Manual	
Mount Type		C mount	

Operational		
Digital Noise Reduction		SSNR
Gain Control		Manual
White Balance		AWC, Manual
Electronic Shutter	Mode	Global shutter mode
	Speed Range	1/30~1/10,000s (33.3ms~100㎲)
Video Rotation		Flip, Mirror
Alarm Interface	In/Out	Output 1ea
LED	Color	White(M12 5pin connector)
	Color Temperature	5700K
	Quantity	32EA

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Analytics

Barcode Type	1D Code	Code128, CODE39, CODE93, Codabar, ITF(Interleaved 2 of 5), UPC, EAN
	2D Code	QRcode, DataMatrix, Maxicode, PDF417

Network

Ethernet		M12 8pin connector(10/100/1000BASE-T)
Video Compression		H.265/H.264: Main/High, MJPEG
Bitrate Control		H.265/H.264: CBR or VBR, MJPEG: VBR
Streaming	Unicast	Up to 6 users
	Multicast	Support
Protocol		IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMPv2, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, SRTP(TCP, UDP Unicast), MQTT
Application Programming Interface	ONVIF	M
	Others	SUNAPI(HTTP API), Hanwha Vision Open Platform

Security

OS / Firmware Protect	Encrypted firmware, Secure boot, Signed firmware
User authentication	Digest authentication, Prevent brute-force attack
Network authentication	IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)
Secure Communication	HTTPS, WSS(WebSocket Secure), SRTP
Access Control	IP-based access control
Data Protect	Encryption credentials, Encrypt compress for live recording file export
Audit	Access / System / Event Log management
Device ID	Device certificate(Hanwha Vision Root CA)
Secure Storage	HTPM(Hanwha Trusted Platform Module)

General

Memory	RAM	4GB
	Flash	512MB

Environmental & Electrical

Operating Condition	Temperature	-40°C~+55°C(-40°F~+131°F)
	Humidity	0~95% RH(non-condensing)
	Others	+74°C(+165°F)(Max) based on NEMA-TS 2(2.2.7), Start up should be done at above -30°C
Storage Condition	Temperature	-40°C~+60°C(-40°F~+140°F)
	Humidity	0~95% RH(non-condensing)
Input Voltage		24VDC, M12 12pin connector

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Environmental & Electrical

Power Consumption	24VDC	Max 28.6W, Typical 13.7W * Max: LED On Typical: LED Off

Mechanical

Color	Black
Material	Aluminum
RAL Code	RAL9005
Product Dimensions	Camera: 218x104.1x127.1mm LED: 255.8x73.8x49.8mm Total: 255.8x181x127.1mm(with install bracket)
Product Weight	Camera: 1897g LED: 996g Total: 3438g(with install bracket)

Certifications & Standards

EMC	FCC 47 CFR 15 Subpart B Class A, ICES-3(A)/NMB-3(A), CE/UKCA - EN55032 Class A, EN 50130-4, EN 61000-3-2, EN 61000-3-3, KS C 9832 Class A, KS C 9835
Safety	UL 62368-1, CAN/CSA C22.2 NO. 62368-1, IEC 62471
Environment	IEC 60529 IP66, IEC 60529 IP67, IEC 62262 IK10, NEMA TS-2 2.2.9 (shock resistance), IEC 60068-2-6, IEC 60068-2-27

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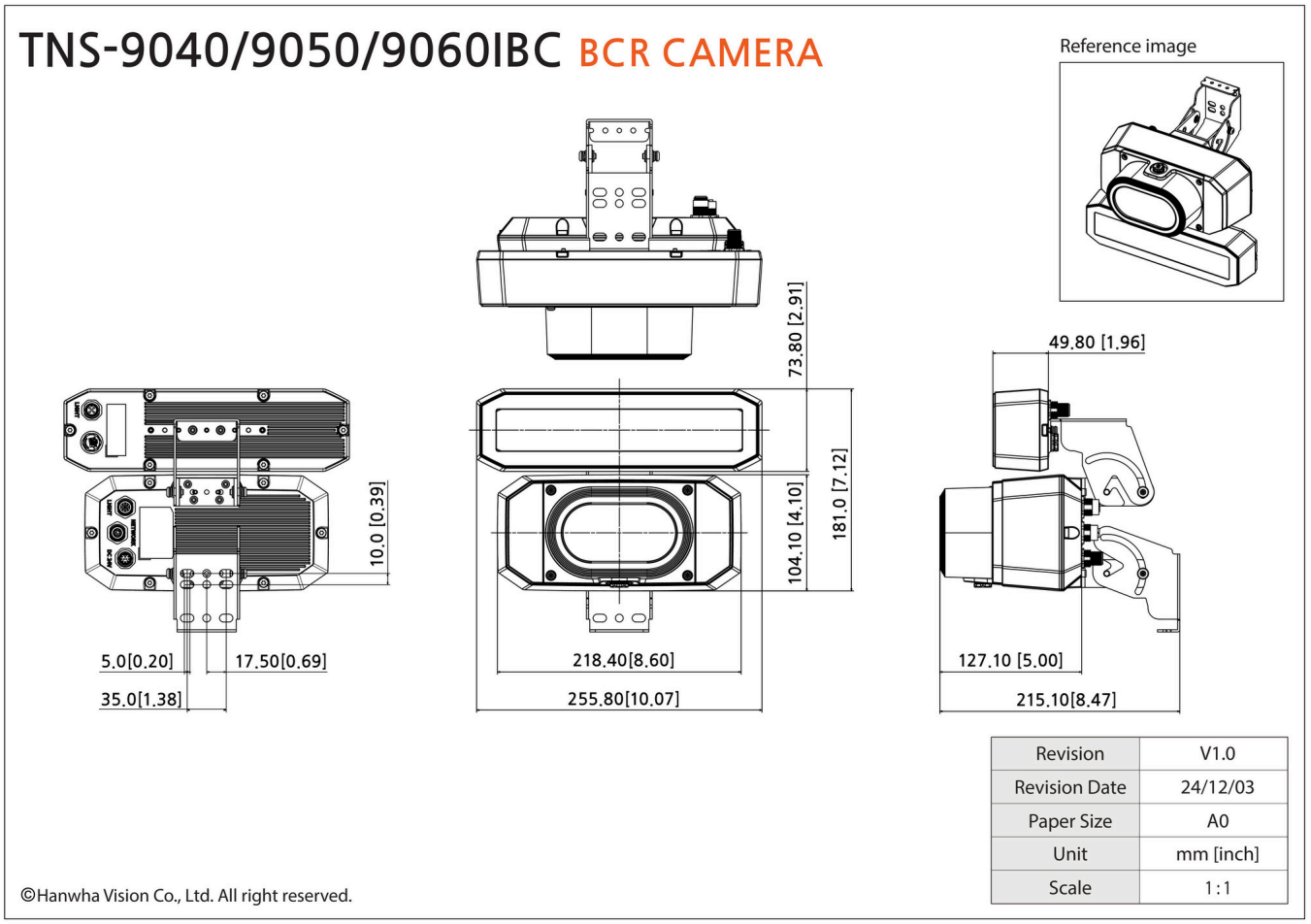
CAD

Unit: mm [inch]



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