

Network

# TNS-9060IBC

## Dual Sensor BCR Camera

## Key Features

- 4K Image Resolution
- Dual Sensor Color + mono
- 35mm Focal Length
- IP67, IK66, 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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# TNS-9060IBC

Dual Sensor BCR Camera



## 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) | | 35mm |
| Max Aperture Ratio (F number) | Wide | F8.0 |
| Angular Field of View | Horizontal | 21.5° |
| | Vertical | 11.5° |
| | Diagonal | 24.2° |
| Min. Object Distance | | 0.2m (0.66ft) |
| 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 | 48EA |

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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 |
| **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 |
| **Power Consumption** | 24VDC | Max 35.4W, Typical 13.7W<br>* Max: LED On<br>Typical: LED Off |

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## Mechanical

| | |
|---|---|
| **Color** | Black |
| **Material** | Aluminum |
| **RAL Code** | RAL9005 |
| **Product Dimensions** | Camera: 218x104.1x127.1mm<br>LED: 255.8x73.8x49.8mm<br>Total: 255.8x181x127.1mm(with install bracket) |
| **Product Weight** | Camera: 1897g<br>LED: 996g<br>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 |
| **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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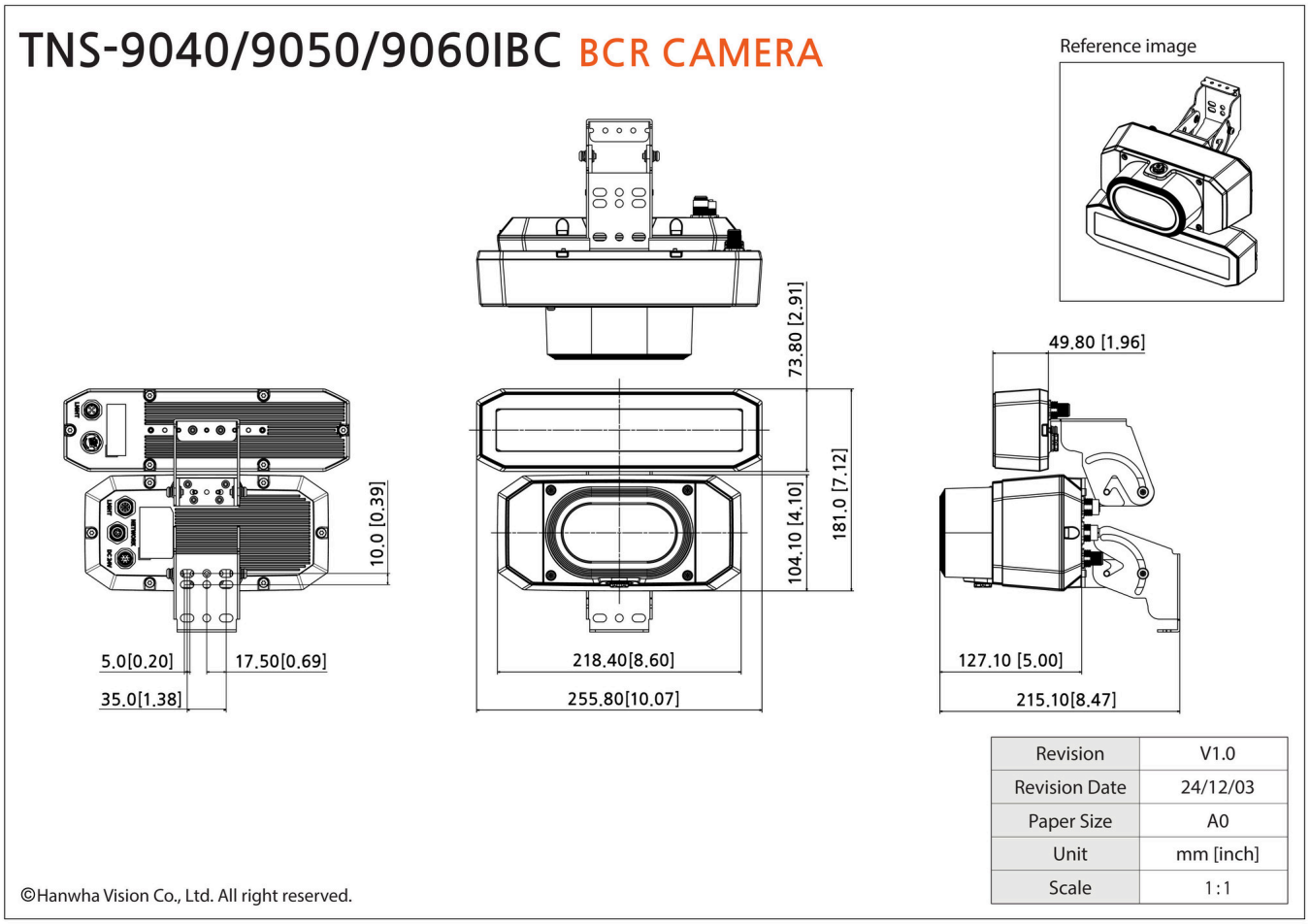
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## CAD

**Unit:** mm [inch]




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