# DS-TCP440-(D)B Series Parking Camera

## Introduction

The DS-TCP440-(D)B series parking camera is applied in the parking guidance and find my car system to detect whether the parking space is occupied or not and recognize the license plate. It is integrated with the parking space status indicator which can indicates red, green, yellow, blue, cyan, and magenta colors. Red indicates the parking space is occupied, green indicates the parking space is available, and blue indicates the parking space is reserved.

The camera can be widely applied in the environment with dark light, such as road, warehouse, underground garage, bar, garden, etc. to provide HD display.

## Key Feature

- Built-in high-performance AI chip, supporting ANPR (accuracy ≥ 99.5%), detection of the parking space status (accuracy ≥ 99.99%), and smart analysis of crossing over line, motion detection, etc.
- HD 4 MP camera, applied in environment with low illumination such as underground garage.
- 3D noise reduction to guarantee clean and exquisite image.
- Smart detection of the parking space status, and smart analysis of crossing over line, motion detection, etc.
- Energy-saving LED with high brightness and low consumption.
- Speed recognition in second accuracy to indicate the parking space status in real time and provide accurate available parking space number.
- Network wiring with easy connection, installation, and maintenance.
- ROI encoding.
- Two RJ45 interfaces, supporting connecting cameras in series, and no power cord is needed.
- Dual-stream.
- Built-in iBeacon module, supporting indoor positioning and navigation with the help of APP. iOS or Android SDK is provided.

## Available Model

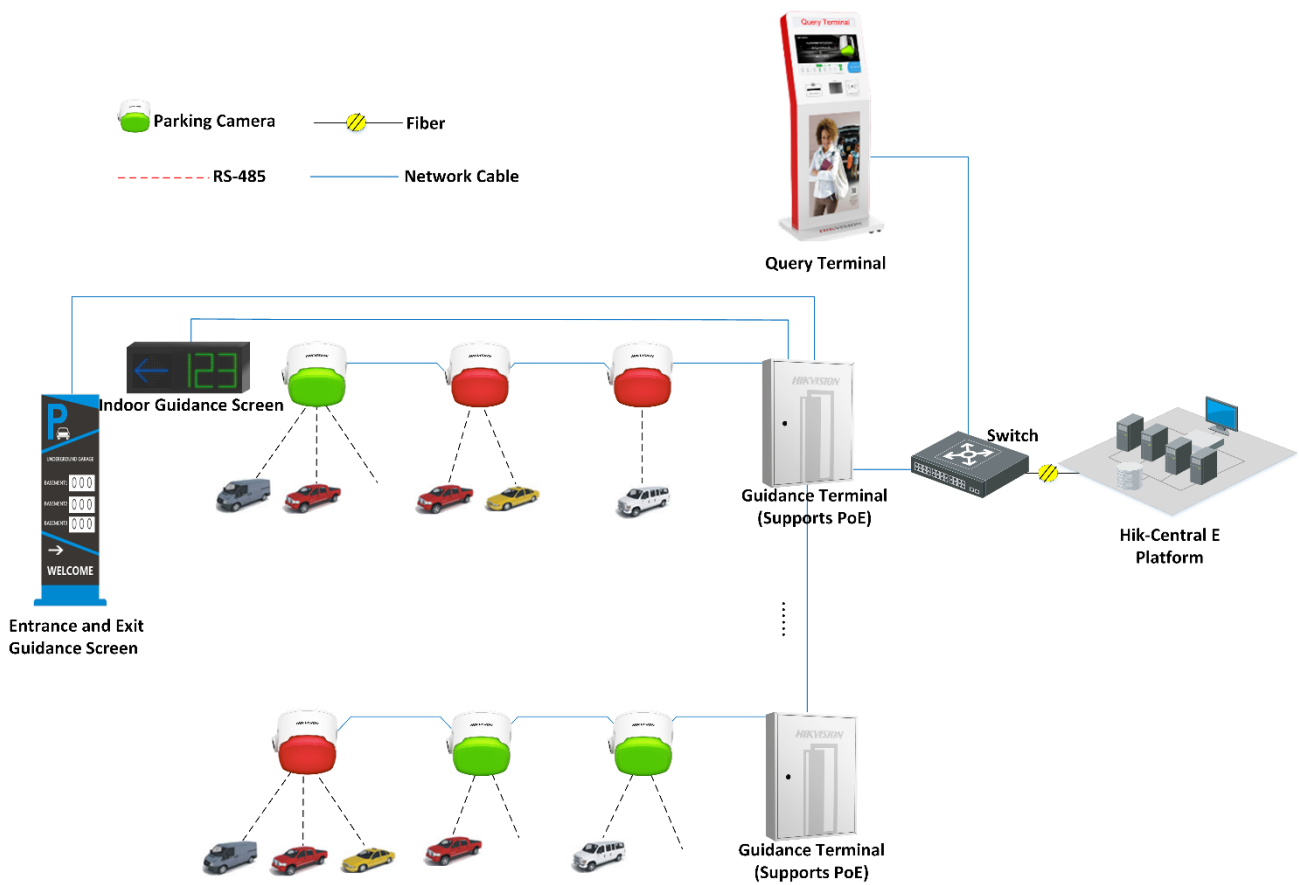| Model | Description |
|---|---|
| DS-TCP440-B (2.8 mm) | Single lens, monitoring up to three parking spaces in one direction, built-in parking space status indicator, optional iBeacon module to realize indoor positioning and navigation, external indicator controllable |
| DS-TCP440-B (4 mm) | |
| DS-TCP440-DB (2.8 mm) | Dual lens, monitoring up to six parking spaces in two directions, built-in parking space status indicator, optional iBeacon module to realize indoor positioning and navigation, external indicator controllable |

# Specification

| Camera | |
|---|---|
| Image Sensor | 1/3" Progressive Scan CMOS |
| Min. Illumination | Color: 0.012 Lux @ (F2.0, AGC ON)<br>B/W: 0.00062 Lux @ (F2.0, AGC ON) |
| Shutter Speed | 1 to 1/100,000 second |
| Lens | 2.8 mm/4 mm (optional) |
| LED Indicator | In integrated mode, red, green, yellow, blue, cyan, and magenta colors can be indicated.<br>In separation mode, up to 3 external indicators which can indicate red, green, yellow, blue, cyan, and magenta colors can be connected.<br>Supports indicator flashing. |
| Angle Adjustment | Pan: -30° to 30°<br>Tilt: 0° to 30° |
| FOV | For 2.8 mm lens: horizontal: 98°, vertical: 53.1°, diagonal: 114.7°<br>For 4 mm lens: horizontal: 75.3°, vertical: 41.4°, diagonal: 88.2° |

| Compression | |
|---|---|
| Video Compression | H.265/H.264/MJPEG |
| Output Bit Rate | 32 Kbps to 16 Mbps |

| Image | | |
|---|---|---|
| Image Format | JPEG | |
| Max. Resolution | 2560 × 1440 | |
| Video Standard | PAL | |
| Frame Rate | DS-TCP440-B:<br>30 fps (N)/25 fps (P) | DS-TCP440-DB:<br>15 fps (N)/15 fps (P) |
| Main Stream | DS-TCP440-B:<br>2560 x 1440 (default), 1920 x 1080, 1600 x 1200, 1280 x 720, 720 x 576 | DS-TCP440-DB:<br>2560 x 1440 (default), 1920 x 1080, 1600 x 1200, 1280 x 720, 720 x 576 |
| Sub-Stream | DS-TCP440-B:<br>2560 x 1440, 1920 x 1080, 1280 x 720, 720 x 576 (default), 352 x 288 | DS-TCP440-DB:<br>720 x 576, 352 x 288 (default) |
| Image Settings | Brightness, contrast, saturation, white balance, and gain can be adjusted via client or IE browser. | |
| Backlight Compensation | Supported. Areas can be selected. | |

| Network | |
|---|---|
| Storage | NAS (iSCSI optional)<br>Local storage: guidance terminal HDD |
| Protocol | TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP, UPnP, SNMP, FTP, 802.1x, QoS, HTTPS (SIP, SRTP, and IPv6 optional) |
| General Function | Flashing filter, dual-stream, heartbeat, mirror, password protection, privacy mask, watermark, NTP time synchronization |

| Smart Function | |
|---|---|
| Smart Function | Built-in AI deep-learning algorithm, supporting ANPR and parking space detection. |

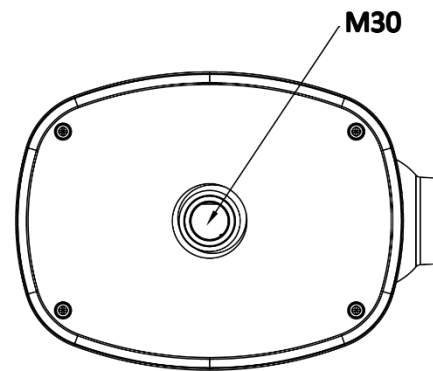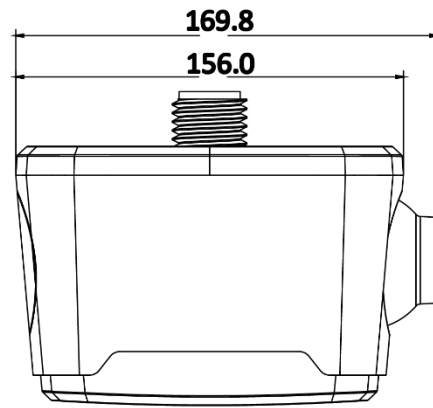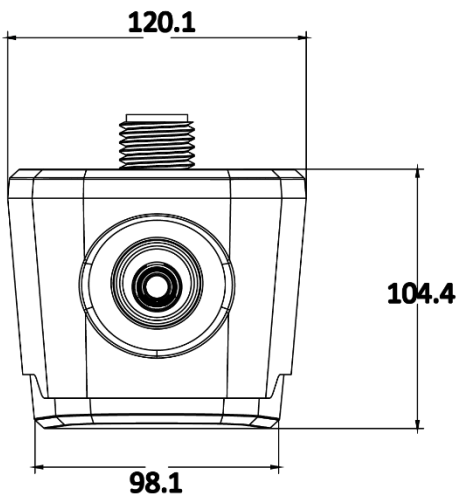| Interface | |
|---|---|
| Communication Interface | 2 × RJ45 10 M/100 M self-adaptive Ethernet interface<br>1 × power interface<br>3 × external indicator interface |
| iBeacon | Standard iBeacon protocol (for -B model) |

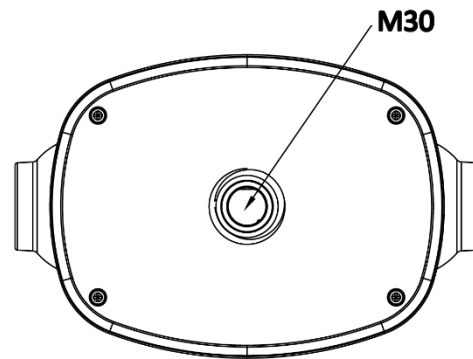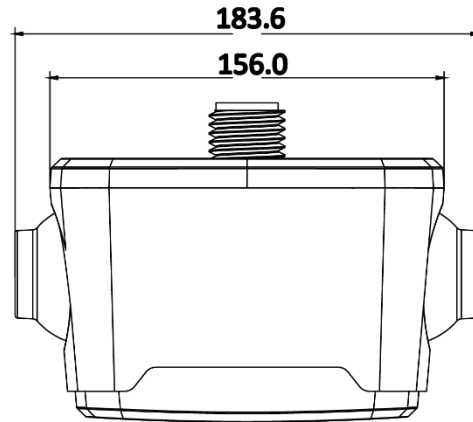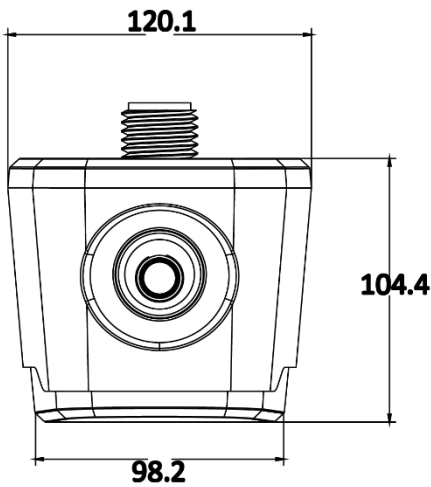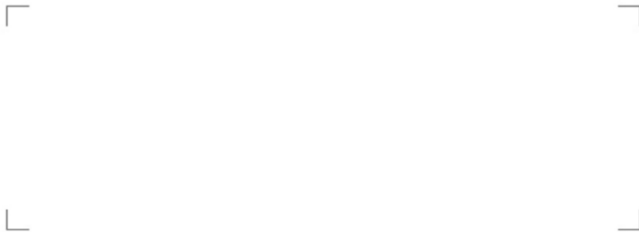| General | |
|---|---|
| Working Temperature | -20 °C to 50 °C (-4 °F to 122 °F) |
| Working Humidity | < 95% (no condensation) |
| Protection Level | IP54 |
| Power Supply | Hikvision PoE, or 12 to 24 VDC wide-range voltage |
| Consumption | Single lens: max. 6.5 W<br>Dual lens: max. 10 W |
| Weight | 500 g (1.1 lb) |

## Typical Application

## Dimension

(Single Lens)



Unit: mm

# Dimension

(Dual Lens)

120.1

104.4

98.2

183.6

156.0

M30

Unit: mm

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