

# TDCS Series

## Vision sensor(QR code)

The sensor uses a COMS industrial camera, which has high-definition imaging and high-speed image processing capabilities, a 60fps processing frame rate, and a maximum reading speed of 60 codes/second. It comes with a high-brightness LED light source, soft light, reducing the impact of low-light environments, and supports IP65 protection. Safe and anti-interference.

### HD Imaging

Supports pixel size 3896\*2453um, resolution 1280\*800, strong image processing capability, maximum processing frame rate 60fps.

### Comes with light source

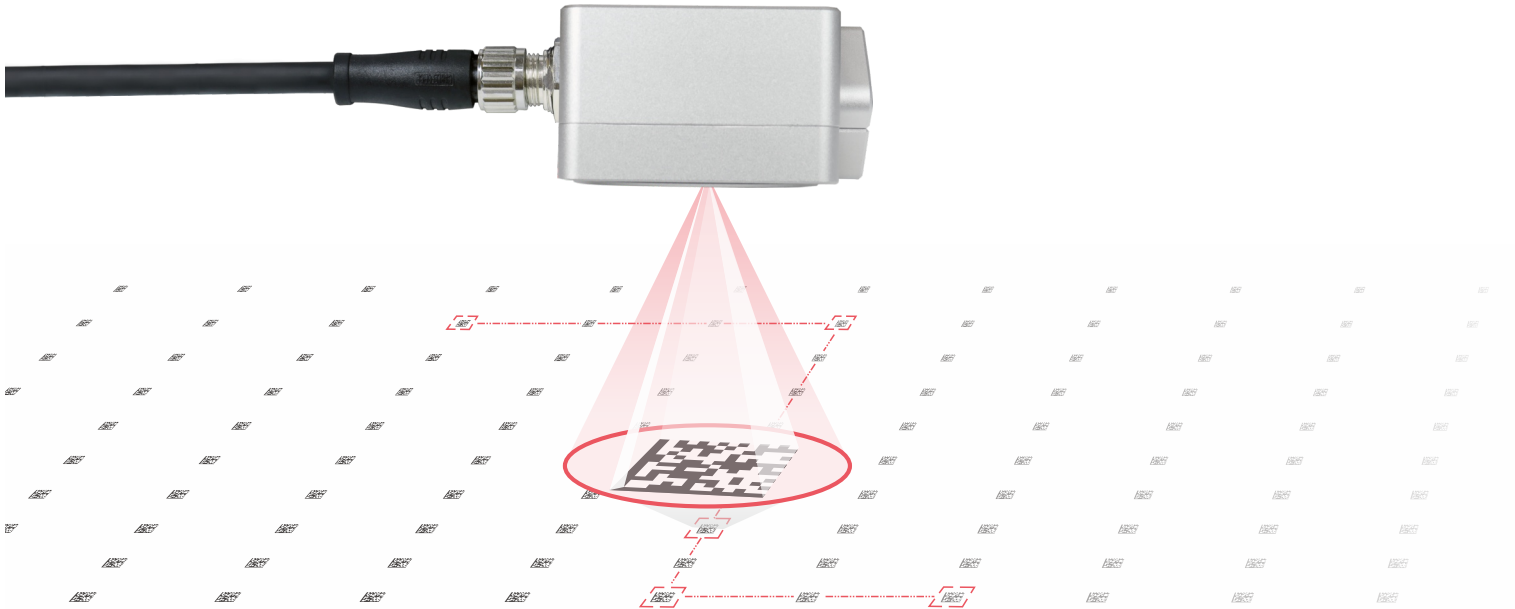
Built-in high-brightness LDE light source, soft light,reducing the impact of low-light environments.

### Support DM QR code

Supports DM QR code, which has the characteristics of high density, strong anti-fouling ability, and diverse coding.

### Various triggering methods

Automatic sensing, command triggering, etc.



Application areas: AGV/AMR positioning and navigation, industrial automation guidance, measurement, defect detection, automatic sorting, pallet scanning, picking and package sorting, OCR recognition and other automation field scenario applications.

| Product Model             | TDCS-0100             | TDCS-0300 |
|---------------------------|-----------------------|-----------|
| Features                  |                       |           |
| Working distance          | 100mm                 |           |
| Viewable range            | 130mm*80mm            |           |
| Field of view             | 66°44°                |           |
| Lens focal length         | 3mm                   |           |
| Resolution                | 1280*800(Black/white) |           |
| Pixel size                | 3896*2453μm           |           |
| Max processing frame rate | 60fps                 |           |
| Max reading speed         | 60fps                 |           |
| Network Interface         | 100Mb/s (Ethernet)    |           |
| Barcode category          | DataMatrix (12*12 )   |           |

|                        |                                     |   |
|------------------------|-------------------------------------|---|
| Communication method   | Ethernet                            |   |
| CAN                    | ●                                   | — |
| RS485                  | —                                   | ● |
| Communication protocol | UDPserver                           |   |
| GPIO                   | 1 isolated input, 1 isolated output |   |

|                   |                      |
|-------------------|----------------------|
| Operating voltage | DC 24V ±10%          |
| Light source      | < 9W                 |
| Camera chip       | CMOS(Global shutter) |
| Indicator light   | 4*LED (Green)        |
| Connector         | M12*12 RJ45          |
| Material          | Aluminium alloy      |
| Protection level  | IP65                 |

|                     |                                                   |
|---------------------|---------------------------------------------------|
| Ambient light       | < 40000Lux                                        |
| Working environment | Indoor -10~50℃ <80% RH(No condensation, No frost) |

● Support      — Not Supported

