

H1 Series



Product Features

- Deep learning algorithm reliably read all kinds of 1D and 2D codes without being interfered by dirt or code damage.
- Support different I/O interfaces and input & output at complex situations.
- The coderreader has multiple groups of status indicators to realize multi-angle display of real-time status.
- Support TCP, Serial, FTP, Profinet and other common communication protocols.

External Structure

Light Source

8 LED under lens hood to enhance illumination; May choose between wide-angle/spotlight illumination with colour selection in Red, Blue or White; 4 segments (upper, lower, left, right), each can be controlled individually.

Trigger Button

Click button once to switch from continuous mode to trigger mode; To trigger the coderreader, click the button once.

Code Reading Indicator

Also known as OK/NG indicator. Device start up: Orange Light On
Device Powered on: NG: Red Light On
Code Information read/OK: Green Light On

Lens Cover

Transparent lens hood, detachable and upgradable with polarized lens

17-PIN Interface

Power supply, I/O, ethernet and serial port.



Focusing Screw

Manual focus adjustment to make the scanning image clearer.

Ring Indicator

The ring indicator includes PWR indicator (power indicator), STS indicator (status indicator), LNK indicator (network status indicator).

Technical Parameters

| Model | OPT-IDBE1-04 | OPT-IDBE1-16 |
|-------------------------------|---|-----------------|
| Sensor Type | CMOS, Global shutter | |
| Pixel Size | 6.9 μm×6.9 μm | 3.45 μm×3.45 μm |
| Image Circle | 1/2.9" | 1/2.9" |
| Maximum Processing Frame Rate | 60fps | 50fps |
| Maximum Scanning Rate | 60codes/sec | 60codes/sec |
| Exposure Time | 16μs ~ 1sec | |
| Resolution | 704×540 | 1408×1024 |
| Power Gain | 0 ~ 40dB | |
| Light Source | Spot white light, may opt for spot red light/blue light, wide-angle white light/blue light | |
| ID Code | Code 39, Code 93, Code 128, Codabar, EAN, ITF25, MATRIX25, MSI, CODE11, INDUSTRIAL25, CHINAPOST, etc | |
| 2D Code | QR, Data Matrix, etc | |
| Barcode Category | stacked code PDF417, etc | |
| Interface | 17-pin M12 interface supplying power, Ethernet, digital I/O, serial port functions | |
| Power Consumption | < 19.8 W@24 VDC | |
| I/O | 3 non-isolated inputs (Line In 0/1/2), 3 non-isolated outputs (Line Out 0/1/2), RS-232 x 1; support device trigger via the top button | |
| Communication Protocol | SmartSDK, TCP Client, UDP, Serial, FTP, HTTP, TCP Server, PROFINET, Ethernet/IP, MELSEC, Modbus | |
| Power Supply (Voltage) | 12 ~ 24 VDC | |
| Ethernet | Fast Ethernet (100Mbit/s) | |
| Ambient Temperature | Working temperature 0~50°C, storage temperature -30~70°C | |
| Relative Humidity | 20%~95% RH, non-condensing | |
| Focal Length | 6mm/12.4mm/14.8mm/25mm/C-Mount | |
| Lens Interface | M12-mount, manual focus | |
| Lens cover | Transparent lens cover, polarizing lens cover can be purchased separately | |
| Protection Rating | IP65 | |
| Weight | 240g | |

Dimensions (mm)

