

Data Sheet

CORDEX MN4100



Supplied by

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MN4100

The **MN4100** Dual vision, Automation Imager, provides thermal imaging capability to new or existing control systems.



FEATURES

Measurement accuracy of +2%/2% from -10 to +120c

Compact and lightweight, measuring 120x70x70mm

Communicates with MODBUS/TCP and is supplied with pre-written PLC Function blocks for communications, alarms, measurement and analysis

On-board web server for point-to-point communication

Small and light enough to be picked up with two fingers, the **MN4100** Dual Vision, Automation Imager, provides thermal imaging capability to new or existing control systems. With diverse applications, ranging from plant automation, security, home automation and marine, **MN4100** is the flexible choice when it comes to compact thermal imagers. Provided with prewritten PLC Function Blocks for Communication, Measurement and Analysis, **MN4100** is simple to integrate into any Modbus/TCP compatible control system.

Designed for control and automation applications, MN4100 comprises a dual vision; Thermal and Visual sensor package providing up to 4800 measurement points along with alarms and configuration information via Modbus/TCP. Compact and lightweight, MN4100 is simple to mount via its M6x4 boss on the base and is ideal for hard-to-reach locations where manual surveys cant cover.

With a standard measurement range of -10 to +120C (14 to 248F), MN4100 is the low cost solution for your infrared automation needs. PLC enabled using Modbus/TCP, MN4100, give your existing plant network a dual vision capability by efficiently utilising the processing power of your existing controllers.

Incorporating onboard grid alarms, web server and PLC interface plus dedicated MONITIR software MN4100 helps you prevent unwanted outages and equipment failure without the need for costly manual surveys.



No additional custom cables required, simply remove the weather cap and connect directly to the camera.



Simple to install and ready to use "out of the box". Mounting via M6x4 boss or optional mounting arm (sold separately).



Dual vision, thermal, visual and overlay for simple diagnostic along with powerful LED flash for low light imaging.

PRODUCT OVERVIEW

| Imaging Performance | |
|---------------------------|--------------------------------------|
| Infrared Resolution | 80x60 pixels (4800 measuring points) |
| Measurement Range | Fixed |
| Accuracy | +/-2C or +/-2% |
| Visual Resolution | 640x480 pixels |
| Dual Vision Field of View | Field of View (FOV): 63°Diagonal |
| Illumination | LED Flash (800 Lumins) |
| Visual Sensitivity | 1.0 LUX without illuminator |
| Image Capture Frequency | 1hz |
| Data Capture Frequency | 9hz |

| Power & Communications | |
|-------------------------|---|
| Power Supply | 12/24VDC (2W, 3Wpeak) |
| Power Input Range | 11VDC to 30VDC |
| Power Connector | 3.81mm plug (3-pin) For: Vin, Vchassis, GND |
| Communications | MODBUS/TCP |
| Ethernet Connector Type | RJ45 |
| Ethernet | IEEE802.3, 10/100Mbps |

| Mechanical | |
|--------------------------|---------------------|
| Panel (Diameter x D) | 130mm x 45mm |
| Surveillance (L x W x D) | 120mm x 70mm x 70mm |
| Weight | 300g |

| Environmental | |
|---------------------------|-------------|
| Operating Range | 0C to 40C |
| Storage Range | -40C to 80C |
| EMC (Radiated, Conducted) | EN55015 |
| IP rating | IP54 |

FEATURED PRODUCT

MONITIR MN4000
PANEL MOUNTED THERMAL IMAGER



Authorised Distributor

CorDEX reserve the right to make changes to the instrument at anytime and without notice.

Ref.ID 4100