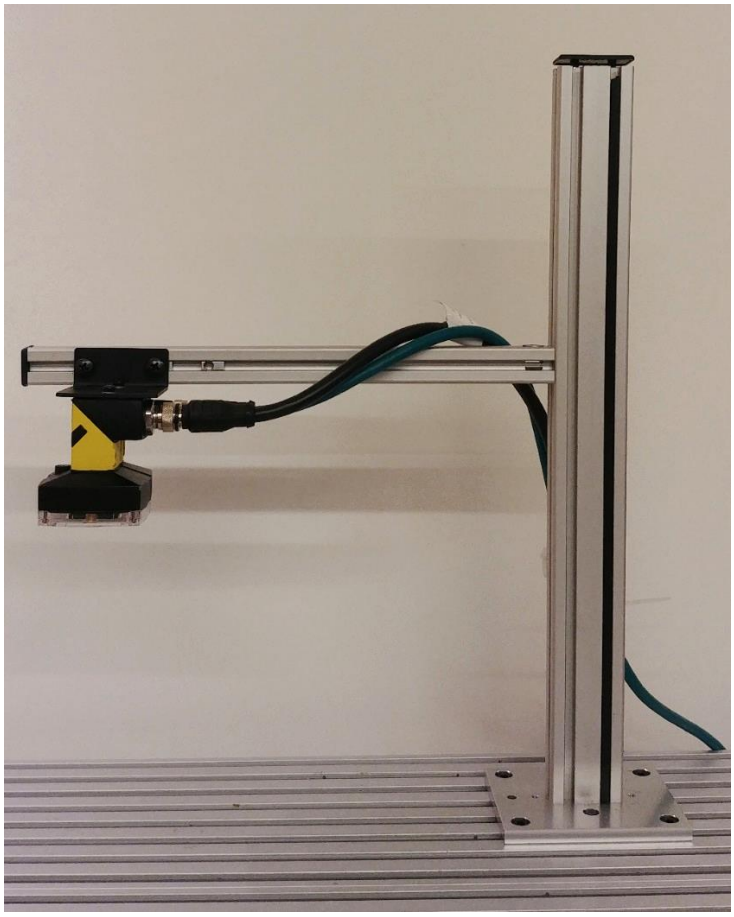
ViewFlex Camera

ASSEMBLY INSTRUCTIONS



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Intelitek software and documentation are available at http://intelitekdownloads.com.

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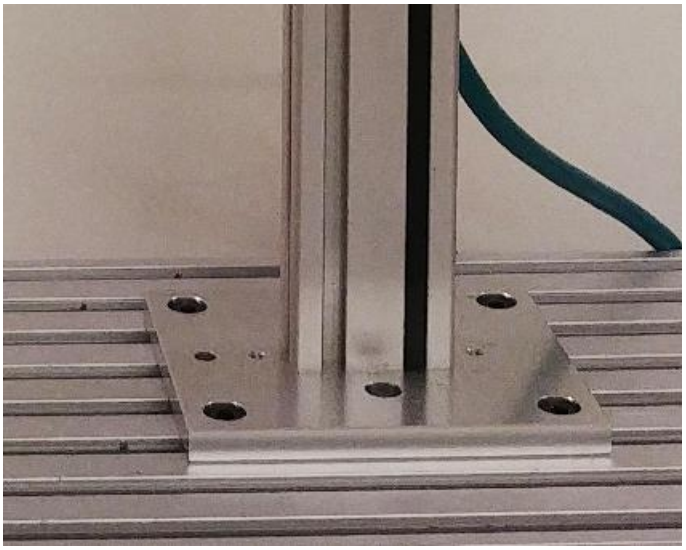
This manual only details the assembly and wiring instructions for your Cognex 2000 Vision Sensor. For more information about the Cognex 2000 and its use, see the Cognex 2000 user manual. Visit https://www.cognex.com/support for the most up-to-date software.

1. Assembling the Camera Stand

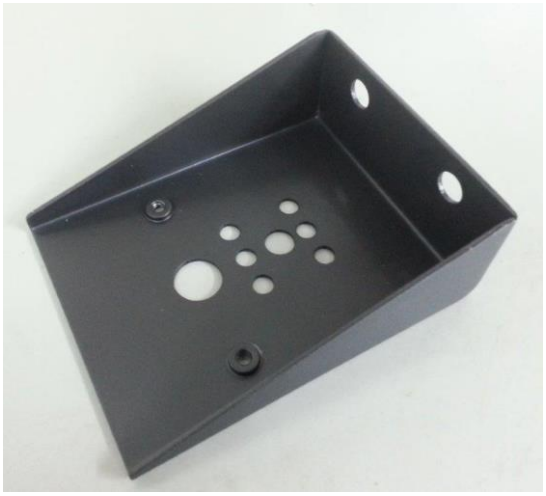
The camera stand for the Cognex (#00-1430 -0000) is used to hold the Cognex Vision Sensor (QC camera) in position in order to carry out ViewFlex operations. This section describes how to attach the camera to the camera stand.

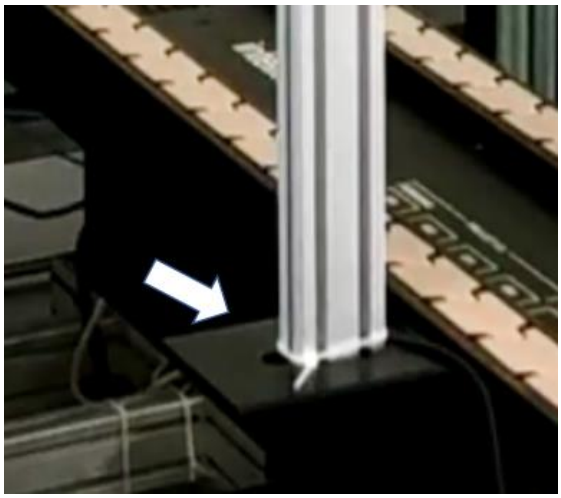
To assemble the camera stand:

1. Secure the base to a table.
   - On a slotted table, screw four M5 Allen screws through the base and into four M5 slot nuts (shown below).

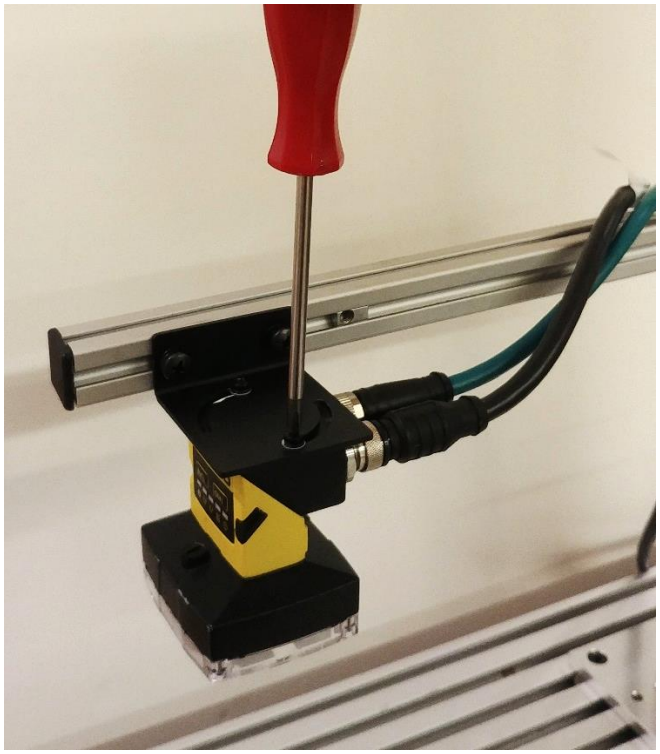


   - On a Formica table, secure the base directly to the table using four pan head Phillips screws.
   - If you are connecting the stand to a CIM track, use the angular connector with accompanying bolts and nuts (catalog number 110633).



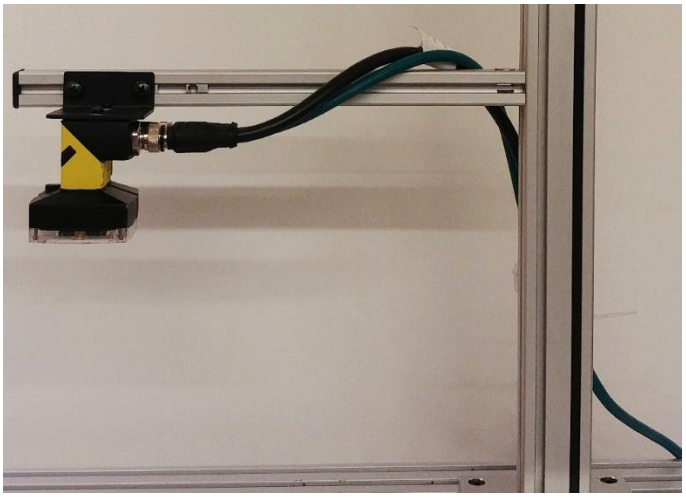


2. Attach the camera to the bracket using two M3 Phillips screws. Fasten the screws.



ⓘ *Note: You must ensure that the camera is secure once attached.*

3. Connect the Ethernet cable (green) and the breakout cable (black) to the camera. Secure the cables to the vertical beam with two cable clamps. The clamps should be secured with M5 flat head Allen screws and T-slot nuts.



4. Secure the loose sections of the cables to the table using cable clamps and nylon cable ties. The clamps should be secured to a slotted table with M5 flat head Allen screws and T-slot nuts, and to a Formica table with pan head Phillips screws.

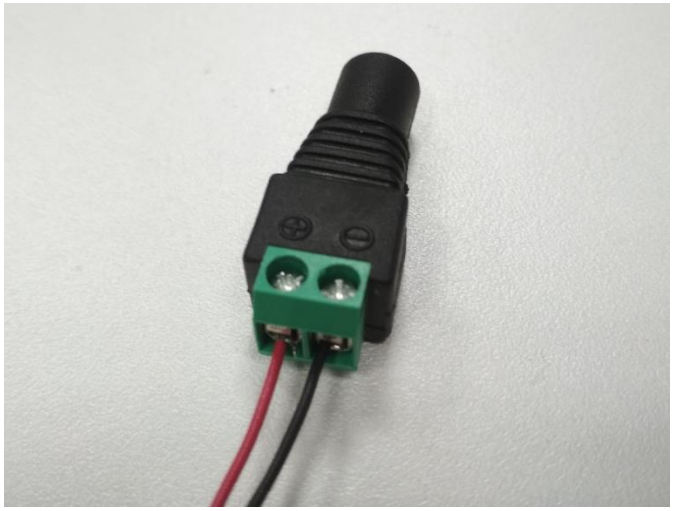
2. Wiring the Power Connections

You Cognex vision sensor's breakout cable requires connection to a 24VDC adapter before it can be connected to the power supply unit.

ⓘ ***Note:*** *For this procedure, you require a small flat-head screwdriver.*

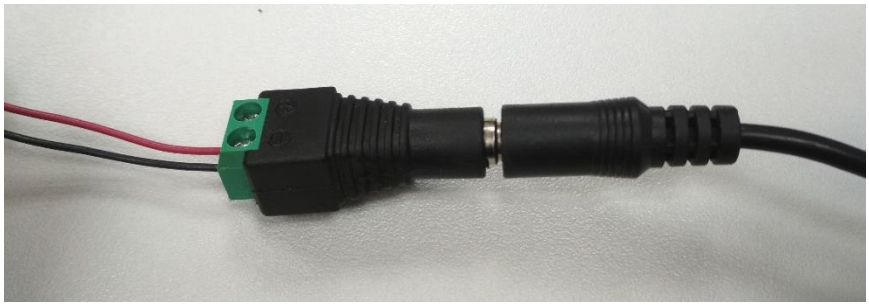
To wire the breakout cable:

1. Locate and separate the black and red wires at the end of the breakout cable. The black wire is the ground connection and the red wire is the +24V DC connection. For information about the other wires in the breakout cable, see the appendix.
2. Connect the black and red wires to the adapter, using the screwdriver to secure the wires:
   - Connect the black wire to the adapter's (-) slot.
   - Connect the red wire to the adapter's (+) slot.



ⓘ ***Note:*** *Unused wires can be clipped short or tied back using a tie made of non-conductive material. Keep all bare wires separated from the +24VDC wire.*

3. Connect the adapter to the power supply.



4. Connect the power supply to a wall adapter.
5. Ensure that the vision sensor's green power LED is lit.

3. Appendix: Breakout Cable Specifications

Besides providing connections to an external power supply, the breakout cable provides connections to the acquisition trigger input, a general purpose input, high-speed outputs, and RS-232 serial communications. The table below lists the connections.

Wire Color	Signal Name
Yellow	HS OUT 2
White/Yellow	RS-232 Tx[1]
Brown	RS-232 Rx[1]
White/Brown	HS OUT 3
Violet	In 0
White/Violet	INPUT COMMON
Red	+24VDC
Black	GND
Green	OUTPUT COMMON
Orange	Trigger
Blue	HS OUT 0
Grey	HS OUT 1

[1] If hardware handshaking is required, an I/O module must be used.

