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Component Parts

A Camera Swivel Bracket

B Bell Camera

C EPM Cat5e Cable

D EPM

E Anti-seize

F Laptop

(User supplied laptop with GRIDSMART Client installed and ethernet cable for configuration)

G Processor

H Mounting Pole

Junction Boxes

Quick Connect

I Junction Box

J Camera Cable

K Shielded Cat5e Test Cable

OR

Hybrid

I Junction Box

J Camera Cable

K Shielded Cat5e Test Cable

Out of the Box

Tools Needed

7/16"   Phillips

1

Quick Connect Junction Box

I

J

K

B

OR

Hybrid Junction Box

I

K
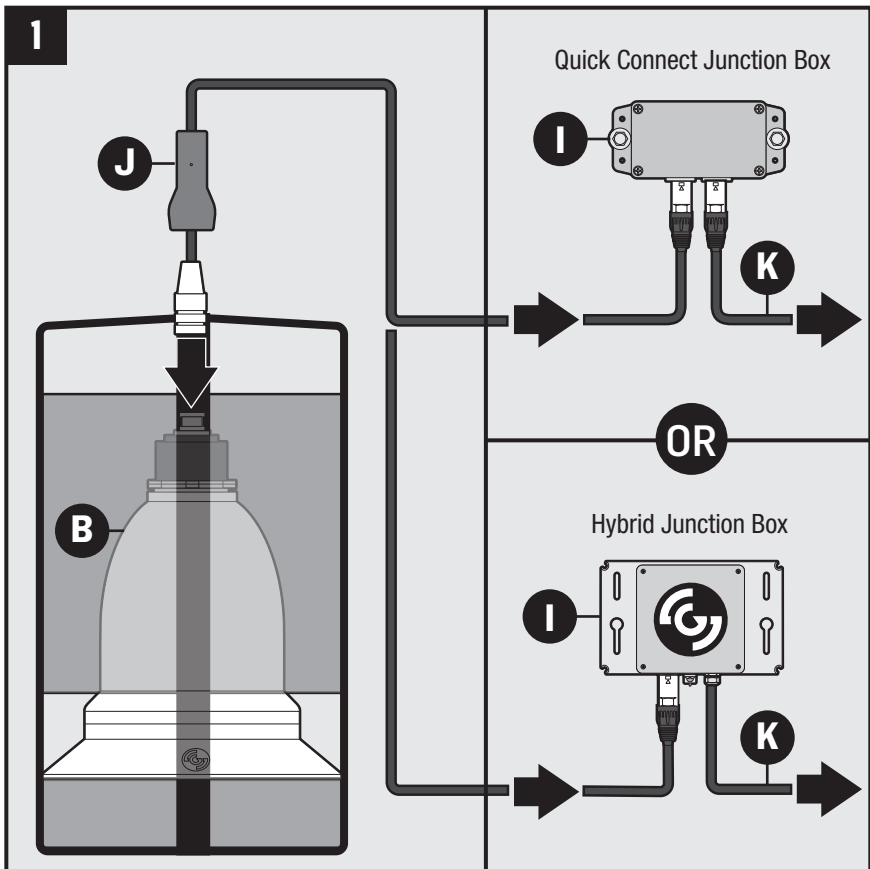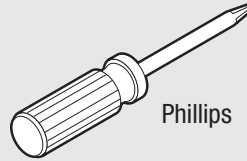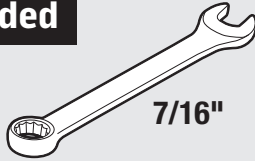
With camera in foam packaging, connect cable (J) to camera (B).Carefully line up key, press and twist. Connect remaining end of cable (J) to junction box (I). Connect shielded Cat5e cable (K) to junction box (I).

NOTE: See specific junction box instruction sheet for detailed installation.

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Crimp an RJ-45 to the remaining end of the shielded Cat5e (K) and connect to the EPM Module (D). Connect Cat5e cable (C) to EPM Module. Connect the remaining end of Cat5e cable (C) to processor (G). Connect a second Cat5e cable (not included) to the processor (G). Connect remaining end of second Cat5e cable to laptop (F). Plug processor into power source. DO NOT USE A GFCI TYPE OUTLET!

Out of the Box

Launch GRIDSMART Client on laptop (F). Select factory default site card and verify image. Image will be dark if left in the foam.

After successful equipment test, disconnect cables to junction box, EPM, processor and laptop. Leave cable connected to camera. Disconnect processor (G) from power source.
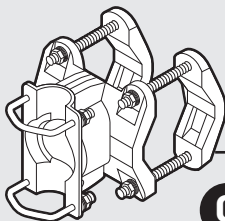
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Items Needed

A

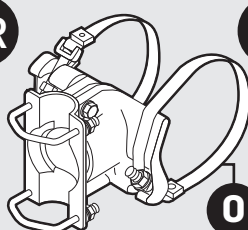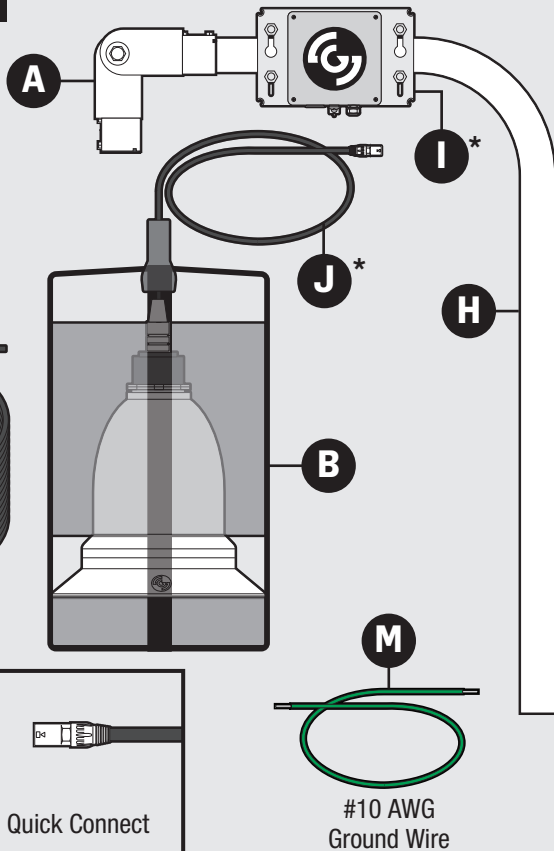Gel-filled, shielded,
burial grade
Cat5e cable

L

I *

J *

H

B

M

Hybrid

Quick Connect

#10 AWG
Ground Wire
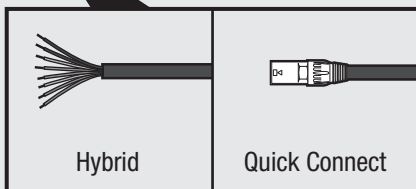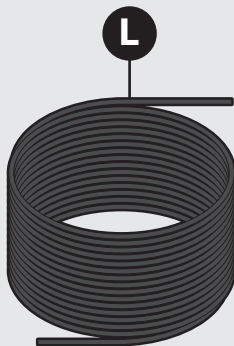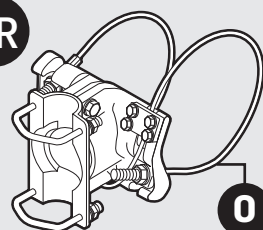
Mounting Bracket
Tenon Mount

OR

Mounting Bracket
Band Mount

OR

Mounting Bracket
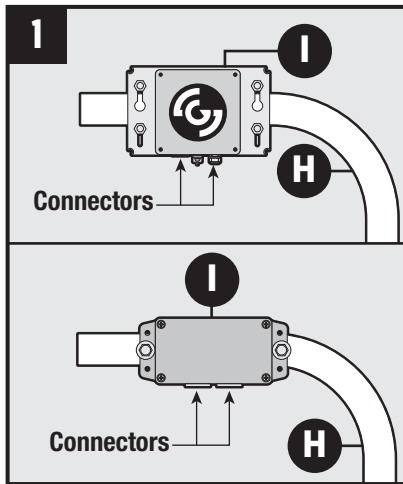Cable Mount

O

O

O

*Hybrid junction box and cable shown.

Above the Road

Tools Needed

7/16" **1/2"** Wire Stripper

3/32"

L *

Grounded
Resistance
Tester
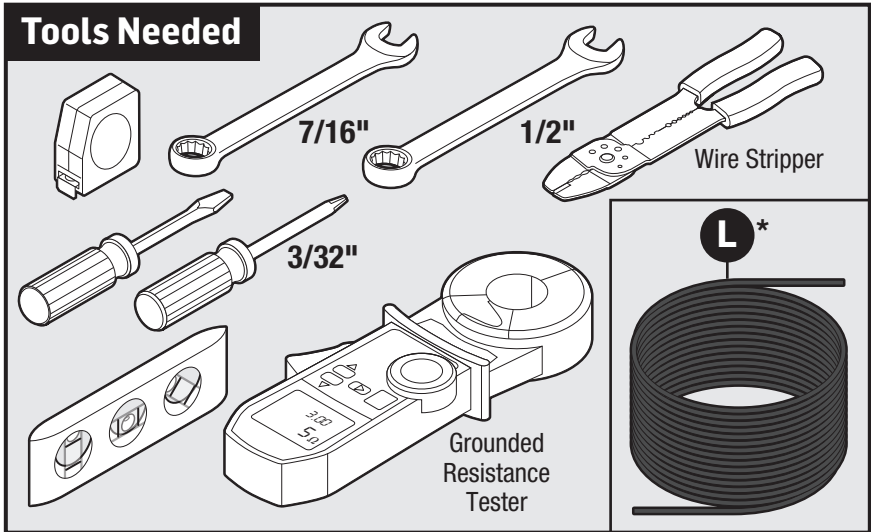
*NOTE: Before proceeding to step 1, route gel-filled, shielded, burial grade Cat5e cable (L) from traffic cabinet to the camera mounting location.

1

I

H

Connectors

I

Connectors

H

2

A

H

Anti-Seize
Lubricant

E

NET WT 4g

Attach hybrid or quick connect junction box (I) to camera pole (H). Ensure connectors are facing down.
NOTE: See specific junction box instruction sheets for detailed installation.
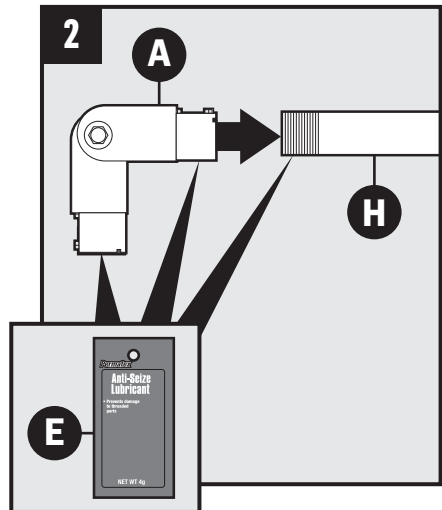
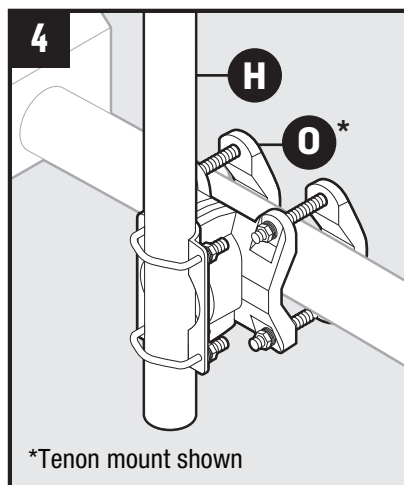Apply anti-seize lubricant (E) to upper end of pole (H) and swivel bracket threads (A). Install swivel bracket (A) onto pole (H).
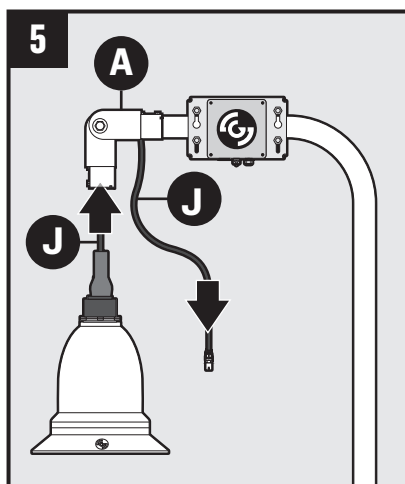
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3

*Tenon mount shown
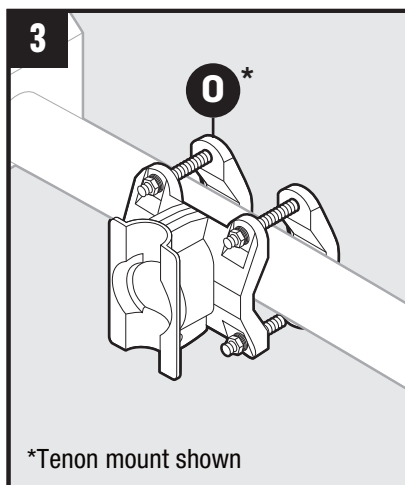
Install mounting bracket (O) onto a Luminaire, Mast Arm or other stationary structure. **NOTE:** See specific instruction sheets for detailed installation.

4

*Tenon mount shown

Install camera pole (H) with junction box and swivel bracket to mounting bracket (O). Angle mounting pole towards intersection.
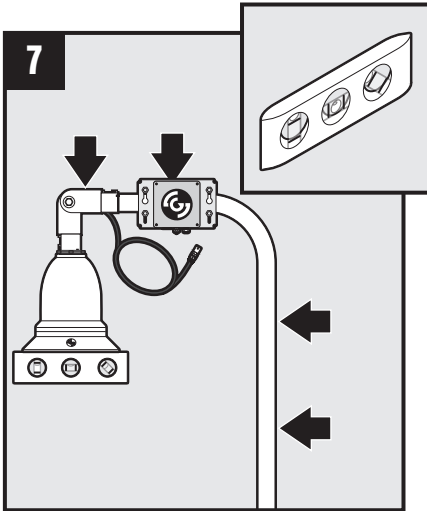
5

After removing camera from packaging, route camera cable (J) through swivel bracket (A).

6
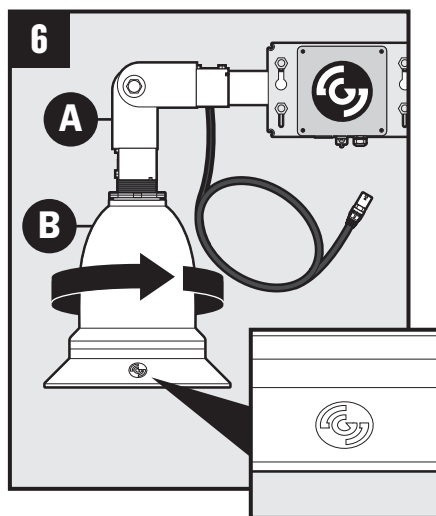
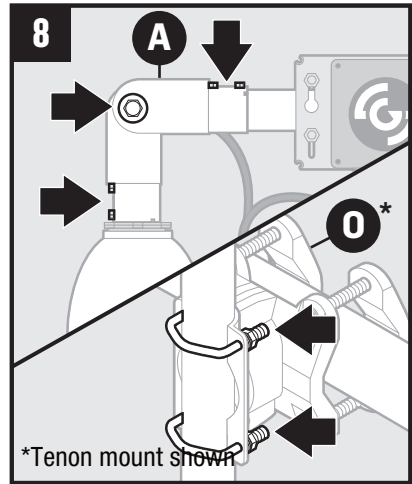Tighten camera (B) to swivel bracket (A). Orient small 'G' logo so that no approach is cropped (usually toward a corner of the intersection).

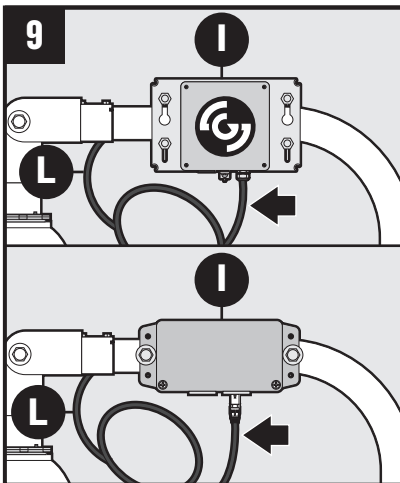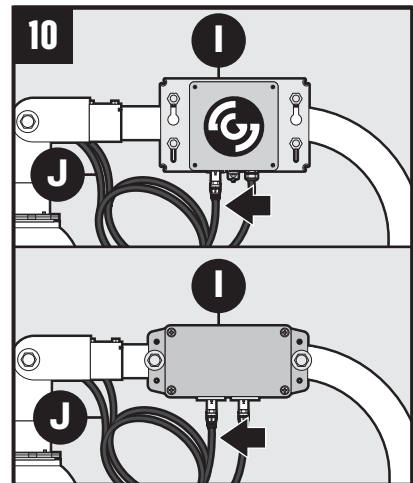**7** Level the camera on both planes.

8 Tighten bolts on swivel bracket (A) and on mounting bracket (O).
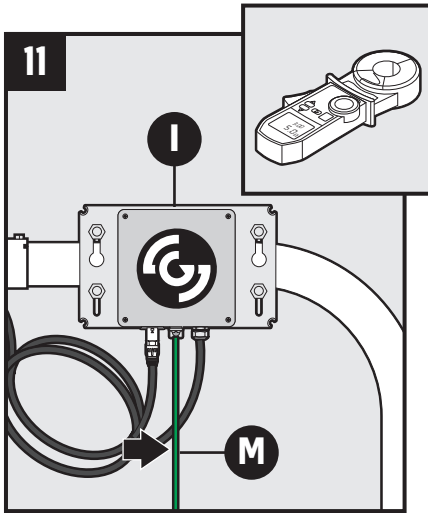
*Tenon mount shown

9 Route Cat5e cable (L) through mounting pole, and out swivel bracket, then connect to junction box (I). **NOTE:** See specific junction box instruction sheets for detailed installation.
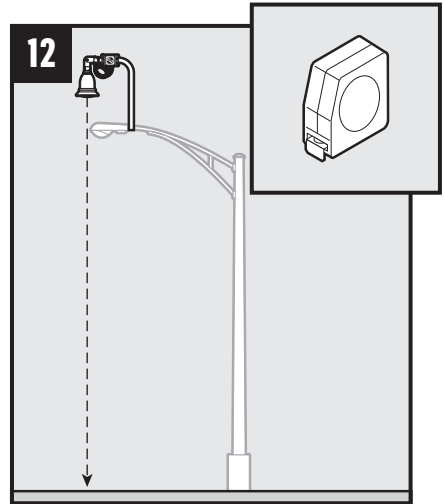
10 Connect camera cable (J) to junction box (I). **NOTE:** See specific junction box instruction sheets for detailed installation.
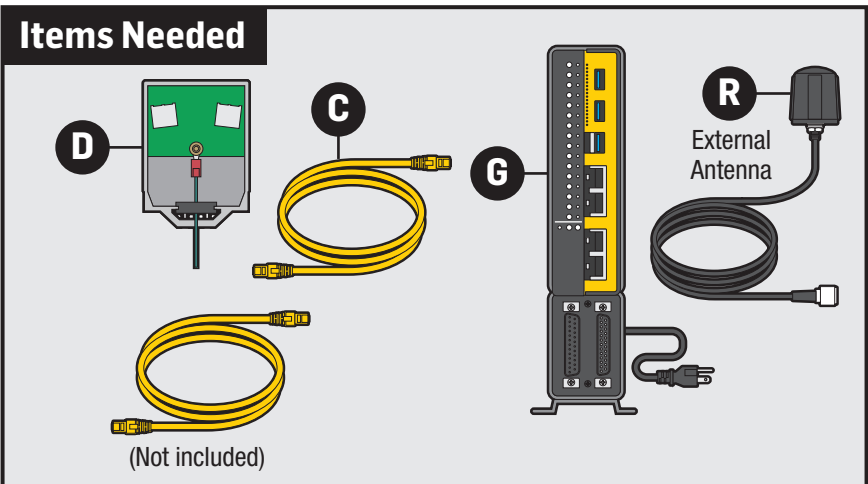
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11

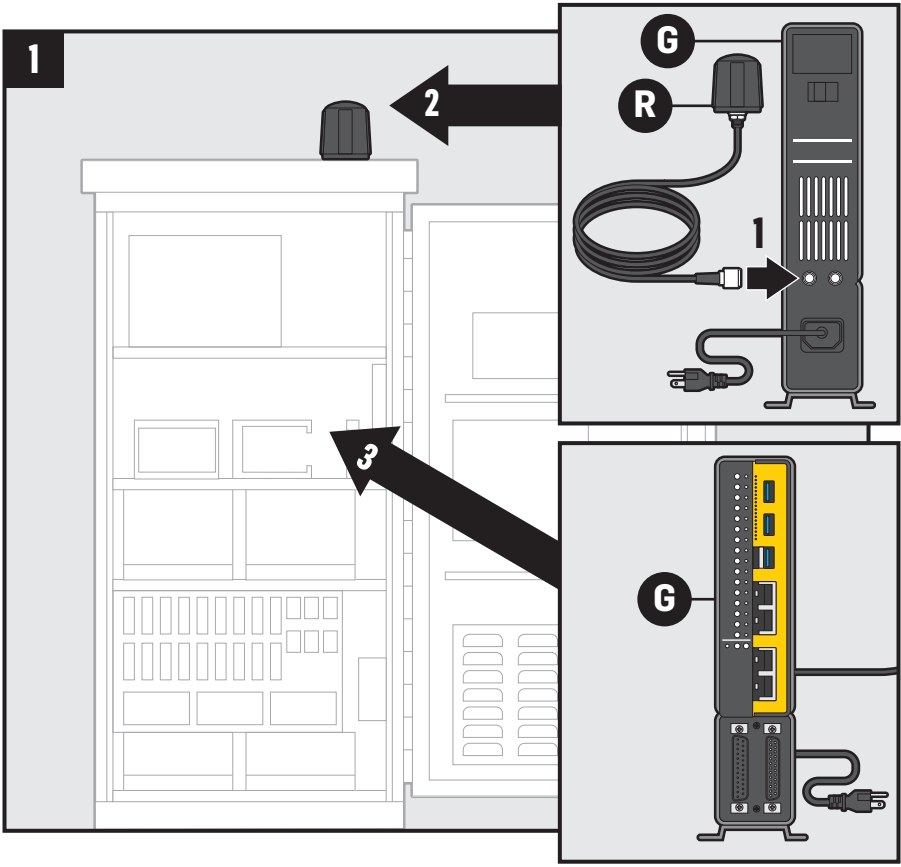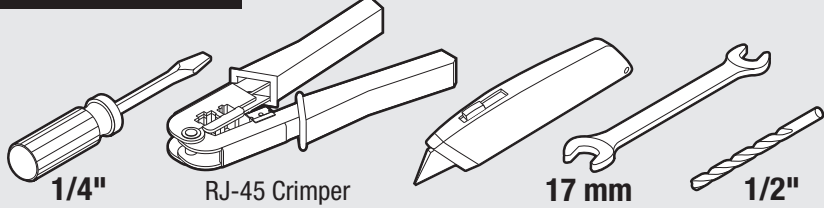Attach #10 AWG ground wire (M) to junction box (I) grounding lug. Verify <5 Ohms resistance to ground.

12

VERY IMPORTANT
Measure height of camera. Record the height for use later to set up system.

Items Needed

D

C

G

R

External Antenna

(Not included)

Above the Road & In the Cabinet

Tools Needed

1/4"　　RJ-45 Crimper　　　　　**17 mm**　　**1/2"**

1

2

3

G

R

1

G
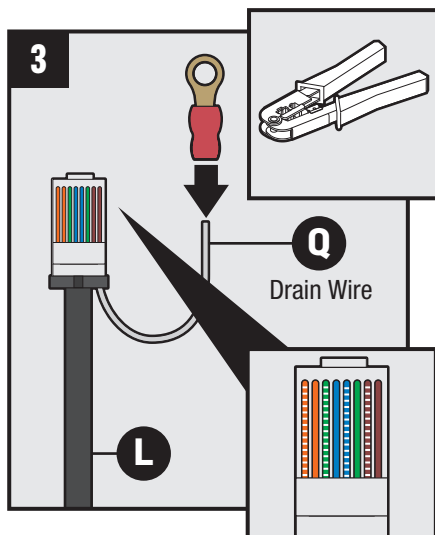
VERY IMPORTANT Mount antenna (R) to top of the cabinet and connect the CELL antenna lead (R) to the female connector on the back of the processor (G). Install the processor (G) into the traffic cabinet.
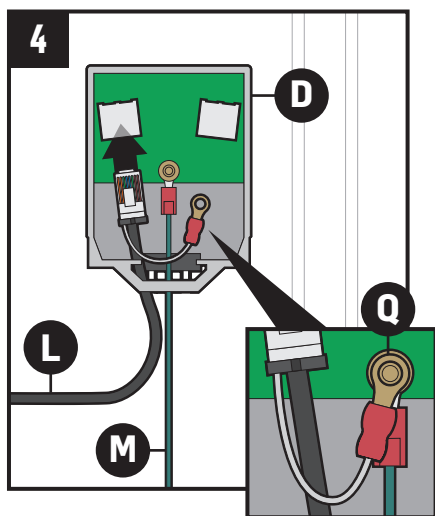
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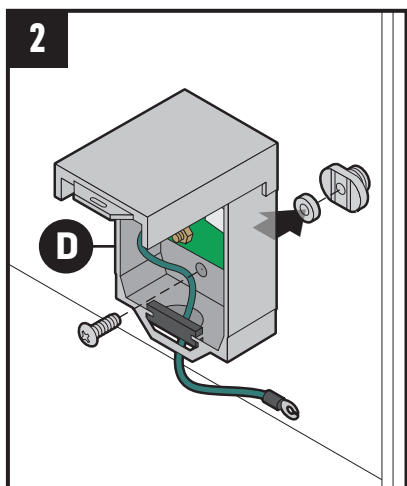
Install EPM on cabinet DIN rail on the opposite side from the power distribution. Cut along the rubber grommet "X".

Drain Wire

Crimp an RJ-45 to the end of the Cat5e field cable (L) and connect the ring terminal to the cable drain wire. Verify good crimp on drain wire ring terminal.
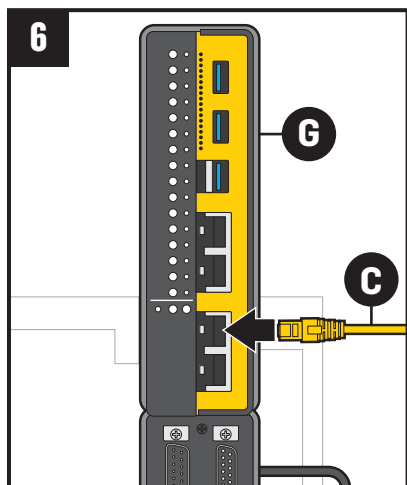

Connect field cable (L) to the EPM (D) "line" port. Connect the drain wire ring terminal (Q) to the EPM ground (M) to eliminate signal noise and EMI.
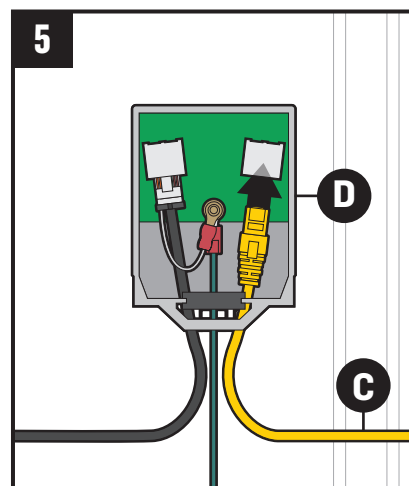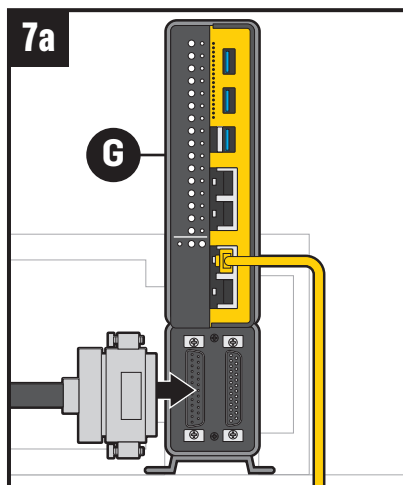

Connect supplied Cat5e patch cable (C) to the EPM (D) "equipment" port.
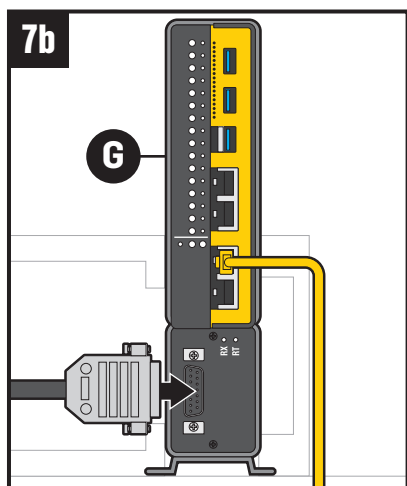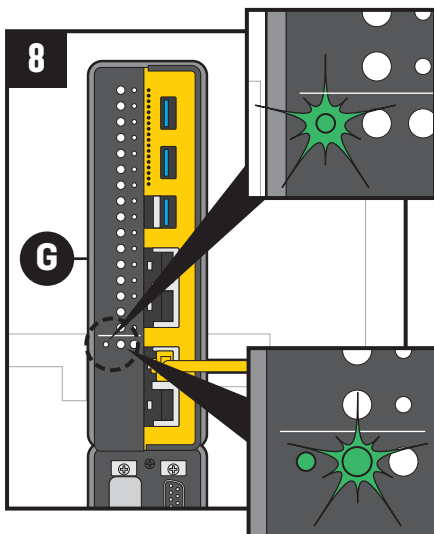
6 Connect supplied Cat5e (C) to the processor (G) "camera" port.

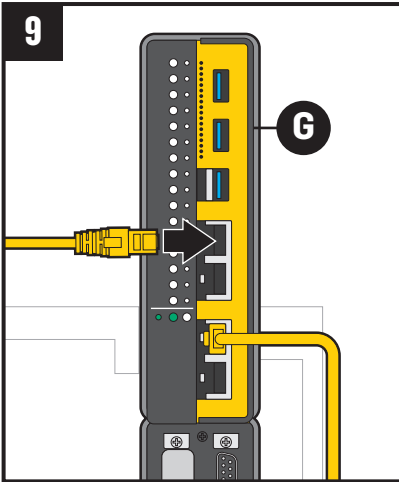**7a** Connect TS1 wiring harness to processor (G).

7b Connect TS2 or ITS wiring harness to processor (G).
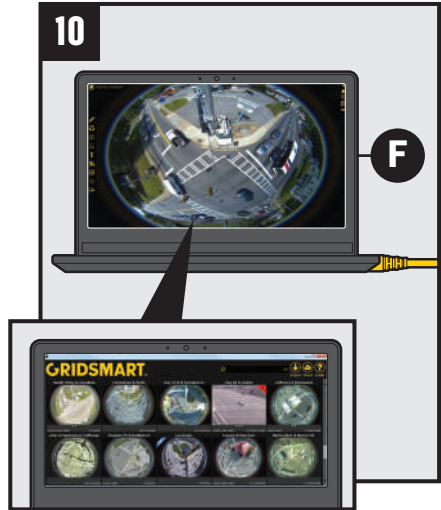

8 Power on processor (status light turns green in 2-3 minutes, camera status light turns green in 5-7 minutes).
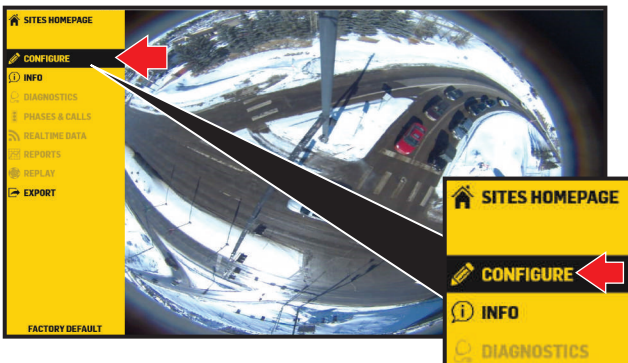
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9

Connect laptop to the "laptop" port on the processor (G) with a second Cat5 cable (not included).

10

Launch GRIDSMART Client on laptop (F). Select factory default site card and verify image.

Client Software

SITES HOMEPAGE
CONFIGURE
INFO
DIAGNOSTICS
PHASES & CALLS
REALTIME DATA
REPORTS
REPLAY
EXPORT

FACTORY DEFAULT

SITES HOMEPAGE
CONFIGURE
INFO
DIAGNOSTICS

1. Click the "Configure" icon.

In the Cabinet & With the Client

2. Enter the postal code or lat/long and Street 1 and Street 2 names.

3. Verify the control settings.
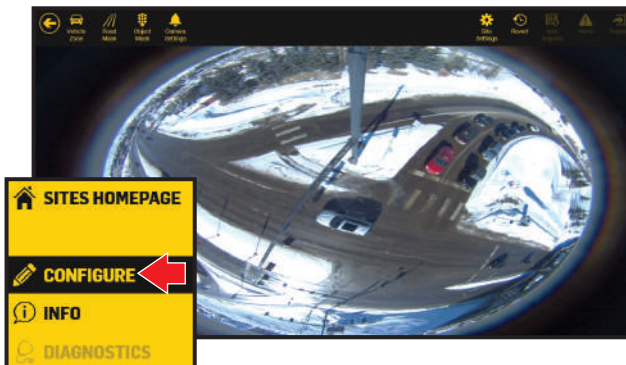

4. Set Date/Time and Region.

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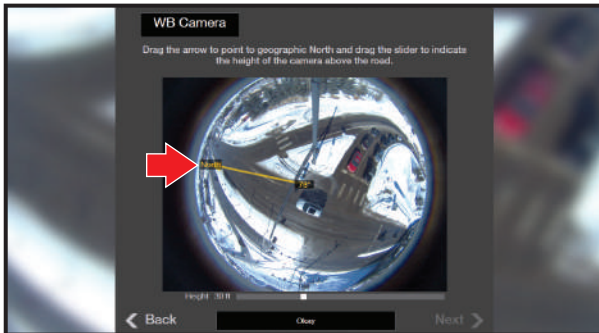
5. Drag the "North" label to point to true north.

6. Click "Configure" again to setup the intersection.

FCC
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interferences that may cause undesired operation

GRIDSMART Support
866.652.5347
gridsmart.com/support
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