NOTRAFFIC

Sensor Unit Rev 2.0

Quick Installation Guide

Federal Communications Commission (FCC) Notice

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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

Changes or modifications to this equipment not expressly approved by the party responsible for compliance (NoTraffic Ltd.) could void the user’s authority to operate the equipment.

1 Introduction

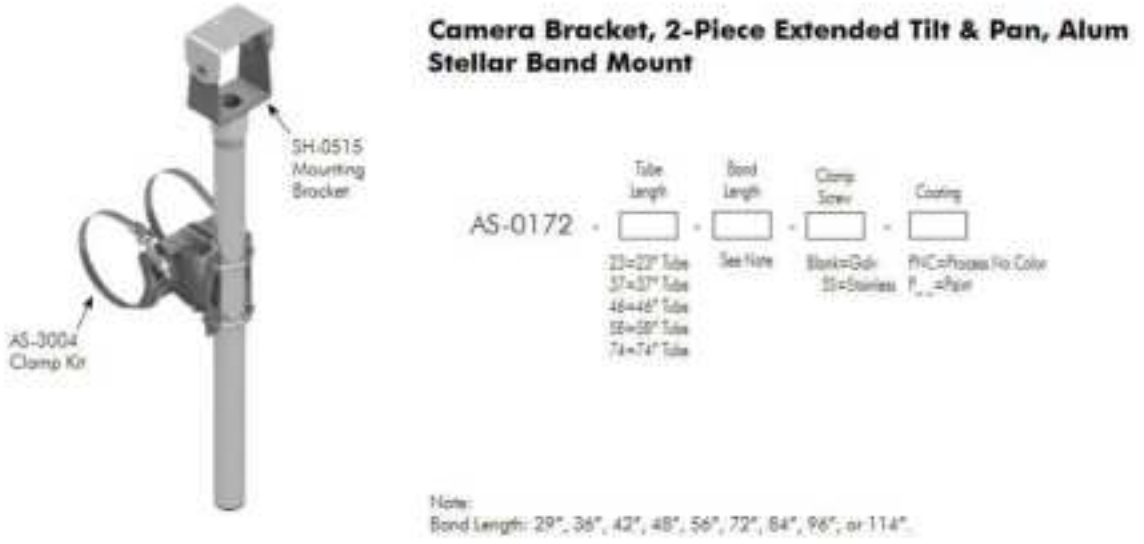
A typical NoTraffic installation consists of one Sensor Unit (SU) for each intersection approach (typically 4). and one control unit (CU) installed inside the cabinet and connected to the traffic controller.

One of the Sensor Units per intersection, is a V2X / DSRC unit, which uses Vehicle to Infrastructure communication protocols, enhancing performance of the entire system, by added connected vehicle tech. Identify this unit, according to label on box and added hardware (antennas, surge suppressors and short ground cables), for further reference (below).

V2X sensor Unit

Non-V2X sensor Unit

2 Sensor Unit Installation



(Repeat for each sensor unit)

2.1 Astro-Brac mounting

2.1.1 Recommended location for installation is in the center of the approach on the highest point available, total height including Astro-Brac should be 30 feet or more.

2.1.2 The V2X Sensor Unit should be mounted facing the main street with minimum field of view obstruction to provide the best possible range for V2I communication.

2.1.3 Example location: on the luminaire arm, or traffic light mast arm. Height is more important than having the Sensor Unit in the center of the approach. Consult NoTraffic team on best possible location, prior to installation, if not clear.

2.1.4 Mount Astro-Brac per manufacturer's instructions.

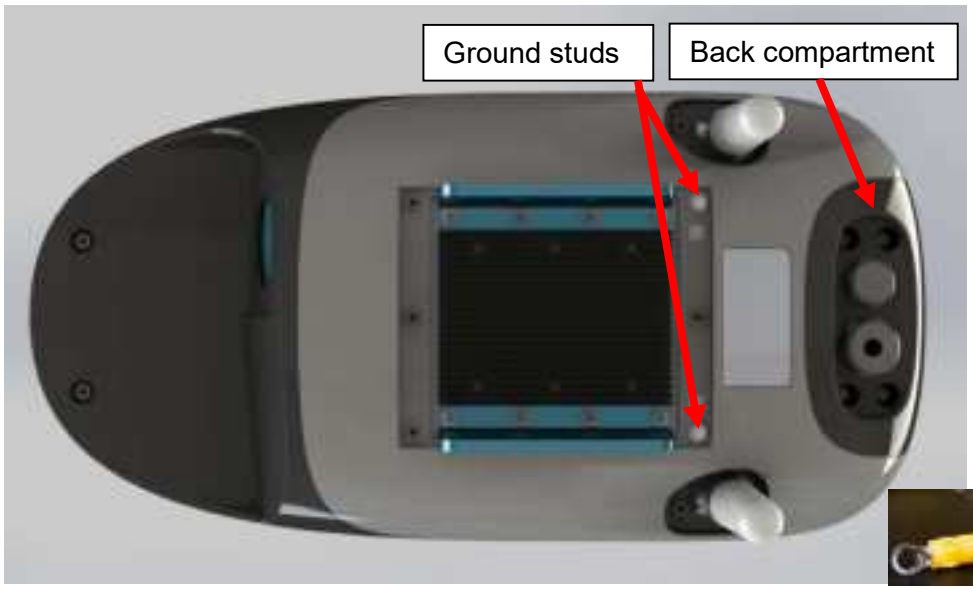
2.2 Mount Sensor unit onto Astro-Brac

2.2.1 Mount the SU to the Astro-Brac using the provided 2x M10 bolts, locking washers and nuts.

2.2.2 Do not fully lock screws, until aiming phase is completed.

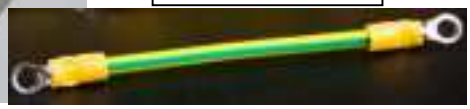
2.2.3 On the V2X Sensor Unit, attach two provided Surge Suppressors, and on them attach two provided antennas. Use two provide ground cables to ground Surge Suppressors to two ground studs on bottom chassis. Then ground one of the studs to a well-grounded connection on the traffic pole itself, or inside the luminaire. Verify that the V2X antennas are firmly installed. **Powering the V2X module without properly connecting BOTH antennas will cause permanent damage to the unit.**

2.2.4 While mounting, note that the camera is facing in the direction of the upcoming traffic. On the bottom back side of the Sensor Units there is the back compartment, which holds the AC inlet, fuse, and RJ45 maintenance port (hidden behind closed gland).



Surge Suppressor

Ground cable

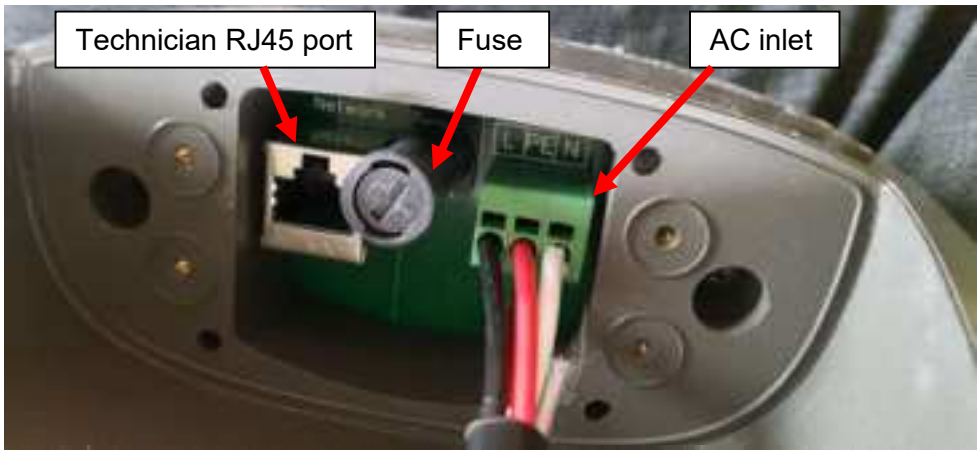


2.3 Connecting AC power

2.3.1 Pull an AC cable (mains power – 110VAC) to Sensor Unit.

2.3.2 Release 4 captive screws on back compartment and open cover.

2.3.3 Slide AC cable through open cable gland on back compartment cover. Then connect AC cable to AC inlet, as shown:



2.3.4 Close back compartment cover, tighten 4 captive screws and then tighten cable gland firmly on AC cable.

2.4 Aiming the Sensor Unit

2.4.1 Move Sensor Unit Up/Down and Left/Right, according to instructions over the phone from NoTraffic's NOC.

2.4.2 When NoTraffic's NOC says Sensor Unit is aimed, tighten two bolts on Astro-Brac to lock Sensor Unit in position.

2.5 Finishing installation

2.5.1 Check for mechanical integrity of the Sensor Unit and Astro-Brac.

2.5.2 Attach excess AC cable to pole, using cable ties.

FCC

FEDERAL COMMUNICATIONS COMMISSION

SUPPLIER'S DECLARATION OF CONFORMITY (SDoC)

Equipment:	Sensor Unit Rev 2.0-V2X
Trademark(s) and Model(s):	NT202100
Manufacturer:	NoTraffic Ltd.
FCC ID in case other parts of this equipment are subject to certification:	NA

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 interference that may cause undesired operation.

The following test reports are subject to this declaration:

Test report number: NOTEMC_FCC.38397	Issue date:July 15, 2020

The following manufacturer/importer/entity (located in the USA) is responsible for this declaration:

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Date:	7/15/2020

Signature: