

GRIDSMART Protect and GRIDSMART Version 21.3 FAQ

- 1. What is Protect?**
Protect is a new software option for the processor that offers VRU safety and analytics. Protect uses the same hardware as GS2, but it is a different software package. It has the same power as a GS2 with less functionality.
- 2. What is included with Protect?**
GRIDSMART Protect provides Vulnerable Road User (VRU) safety – such as bikes-in-the-box, pedestrian actuation, and pedestrian all-clear. Both GRIDSMART Protect and GRIDSMART System support the add-on VRU Data Module (VDM) to provide VRU analytics such as bike and pedestrian counting.
- 3. Who should buy GRIDSMART Protect?**
Cities and municipalities that need Vulnerable Road User (VRU) safety and analytics but already have other functioning detection or don't require traditional vehicle detection.
- 4. What is the new part number?**
The part number for Protect is GS-3-GS2-PRT.
- 5. When is it available?**
Commercial release is expected in late April 2021.
- 6. What's the lead time?**
There is no additional lead time.
- 7. Does Protect offer vehicle detection?**
Yes, but vehicle detection is limited – see Protect Data Sheet for the full functionality matrix.
- 8. Can I upgrade from Protect?**
Yes, it is simple to upgrade from Protect to the GRIDSMART System.
- 9. Is there a new module available with Protect?**
Yes, new VRU Data Modules (VDM/VDM+) are optional add-ons that provide pedestrian and bike reports.

GRIDSMART High Capacity

- 1. What is GS2 High Capacity Part number?**
GS-3-GS2-HC



2. When is GS2 High capacity available?
Commercial release is expected in late April 2021
3. Does onboard recording and playback require a software license for High Capacity?
Yes, support for onboard recording and playback via the Device Manager requires the Streams module.
4. What's the lead time for High Capacity?
4 weeks
5. Can I upgrade my GS2 to High Capacity?
No, customers can not upgrade to the 2TB hard drive.
6. Will the recorded data on High Capacity display the phase and call status?
No. The recorded data on High Capacity will not display or record the phases and call status.
7. What is required to have DVR functionality on High Capacity?
Customers must purchase GRIDSMART High Capacity (GS-3-GS2-HC) and Streams module (STR) to have onboard video recording and playback via the Device Manager to the Streams Module.
8. Does the DVR functionality show detection at the intersection?
Not currently, but we are planning to support this functionality in future releases.
9. When High Capacity fills up the internal storage, does the system overwrite it?
Yes, but you can save any videos you do not want to be removed. Otherwise, the oldest video clips are removed first as the system clears storage.

Pedestrian Detection and Wait Zones

1. Are dual Bell cameras required for pedestrian zones?
Yes. In the interest of safety, dual Bell cameras are required for any pedestrian zones, such as the pedestrian crosswalk zone and the pedestrian wait zone.
2. Does access to Pedestrian Wait Zones require a software license?
No, Pedestrian Wait Zones for touchless actuation are included in both the existing GRIDSMART System software and the new GRIDSMART Protect software.
3. What is the required lighting for pedestrian detection at night?
GRIDSMART will provide a minimum light requirement (lx level) for pedestrian detection at night. This requirement will be communicated before Protect is commercially available.
4. When creating pedestrian wait zones, is there a way to create two zones on a corner to accommodate the nearest crosswalk?



Yes, you can create two pedestrian wait zones so that the closest crosswalk is triggered. It is recommended to post accompanying signage at the curb to direct pedestrians on where to stand for each direction so that the correct crosswalk signal is triggered.

5. If an intersection already has two Bell Cameras for vehicle detection, do I need a second processor for VRU?

No. Upgrading to the 21.3 software release will unlock the VRU functionality if you already have 2 Bell Cameras installed at the intersection.

6. Can I overlap vehicle zones over crosswalk zones?

The vehicle zones and crosswalk zones are meant to work together.

7. Are there limitations on where the Bell cameras are mounted beyond the recommended height for cars?

The recommendations for the locations are the same as they are for vehicles in regards to the vehicle zones. Both cameras should be on opposite sides of the intersection to view the intersection's crosswalks and wait zones. The crosswalk and wait zone would be serviced by the camera that is closest to them.

8. How is a well-lit intersection defined?

We will provide a minimum required light level at the time of release. This will be a measure of illumination that can be measured by doing a field survey with a light meter.