Kickoff ODU Analytics Summer Challenge 2016 - Appendix
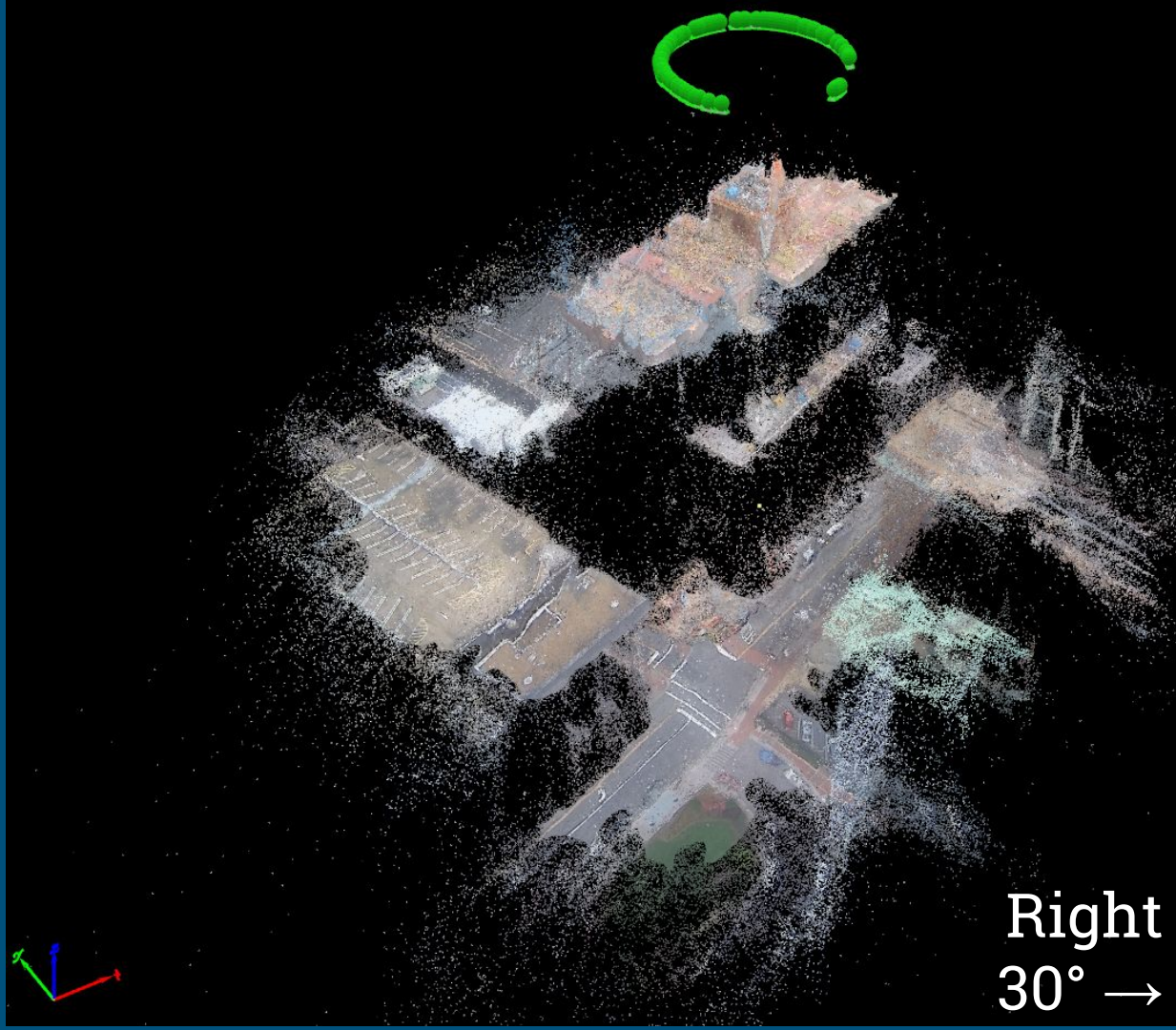
July 12, 2016
Netarus, LLC
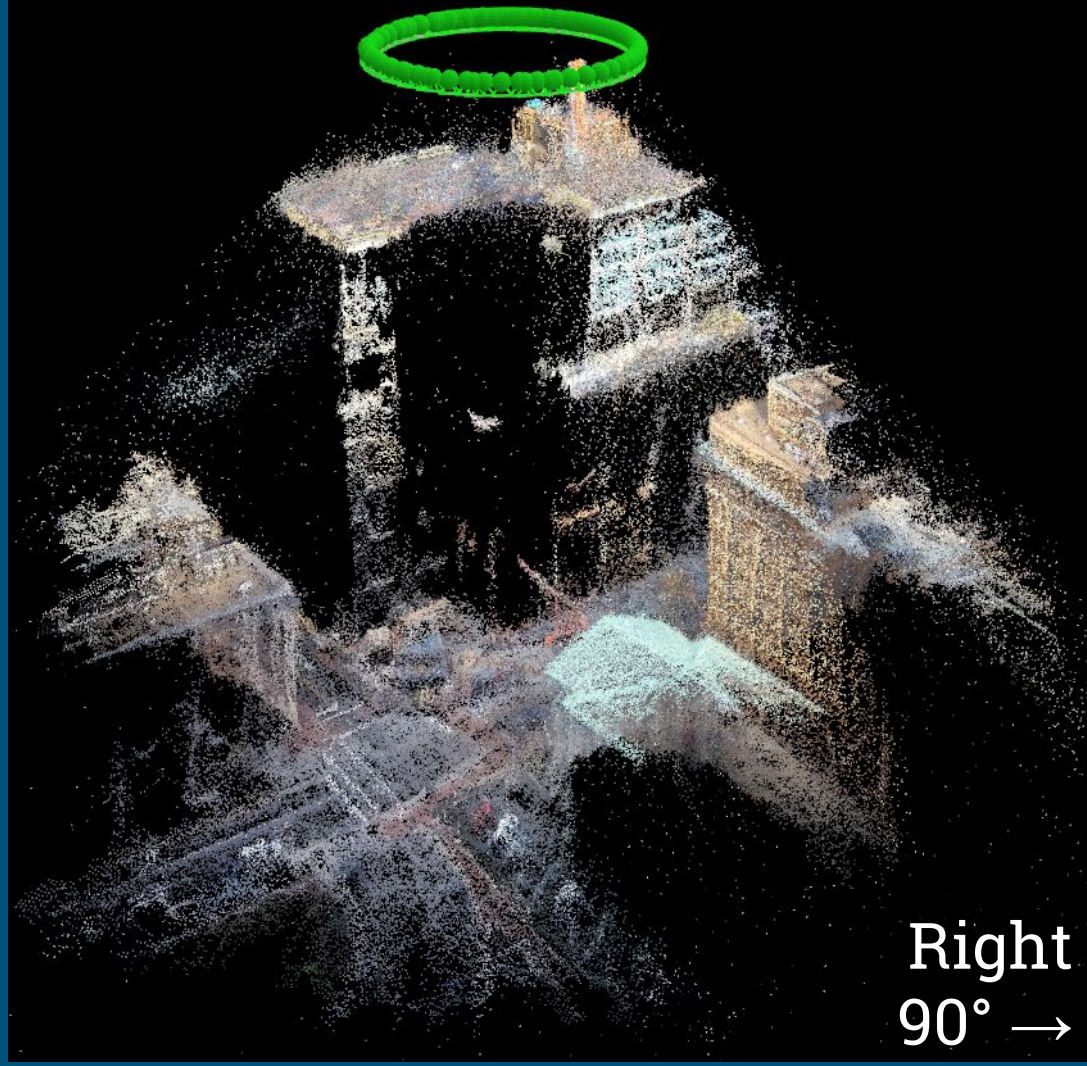
Appendix

3D Point Cloud #1

Right
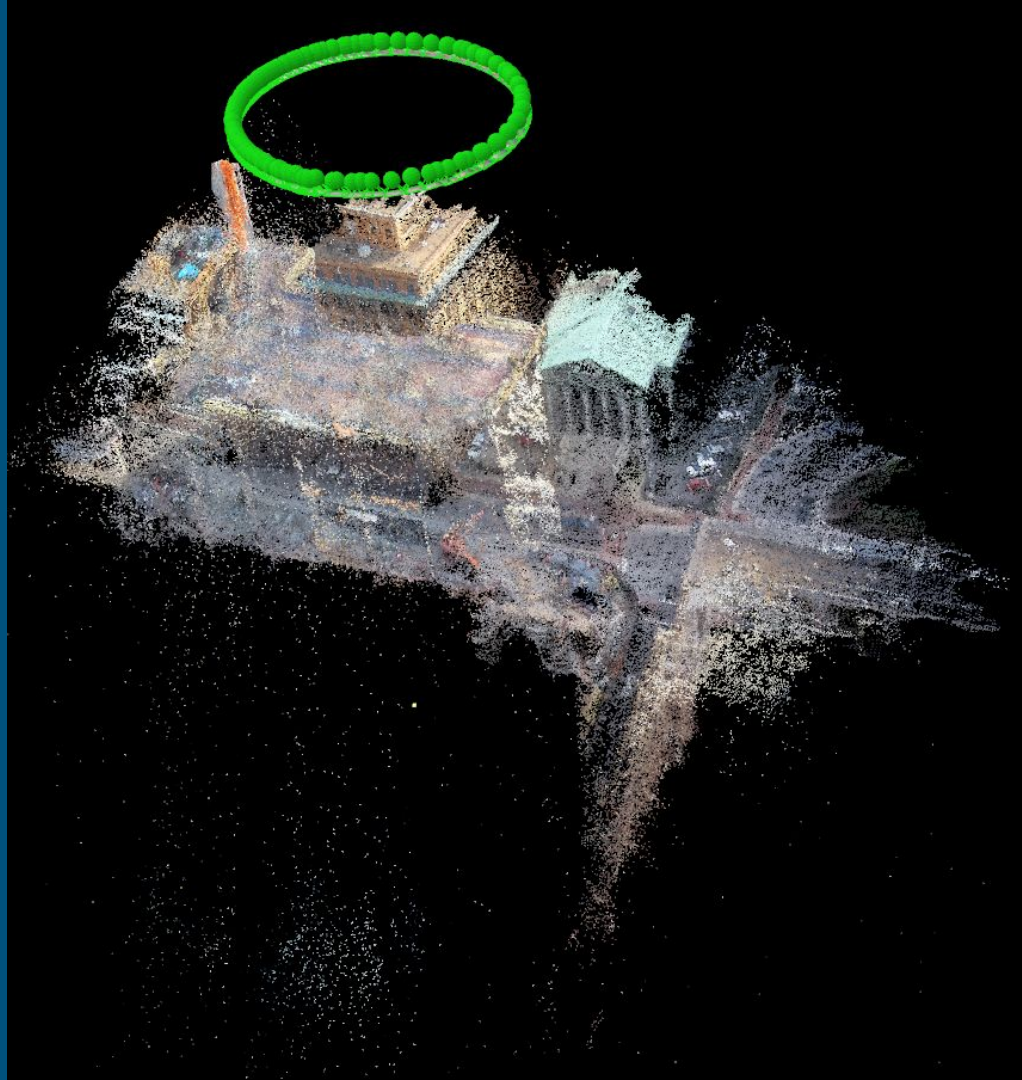30° →

3D Point Cloud #2

Right
90° →

3D Point Cloud #3

Right
180° →

3D Point Cloud #4

HoistCam Director Architecture

www.hoistcam.com

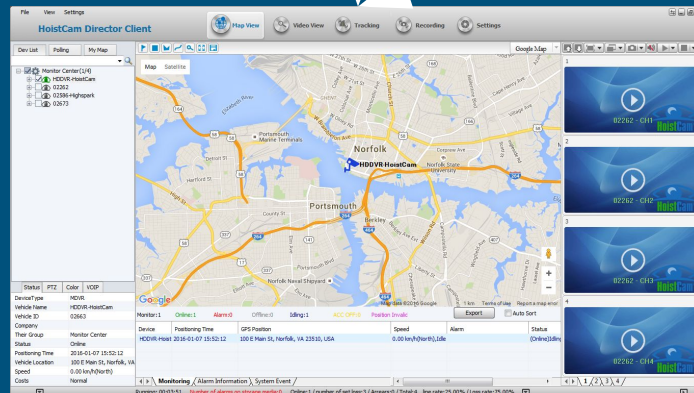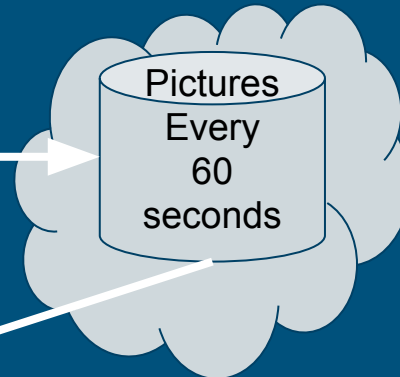**HoistCam Boom Camera**

HoistCam MDVR

HoistCam Cloud

Pictures Every 60 seconds

The Main, Norfolk, Virginia

HoistCam Director Client

Map View   Video View   Tracking   Recording   Settings

Dev List   Polling   My Map

- Monitor Center(1/4)
  - HDDVR-HoistCam
  - 02262
  - 02586-Highspark
  - 02673

Map   Satellite

Google Map

HDDVR-HoistCam

1 02262 - CH1

2 02262 - CH2

3 02262 - CH3

4 02262 - CH4
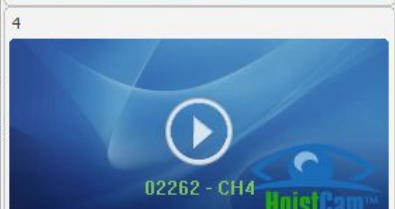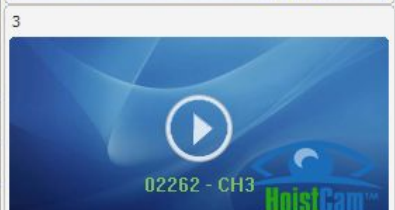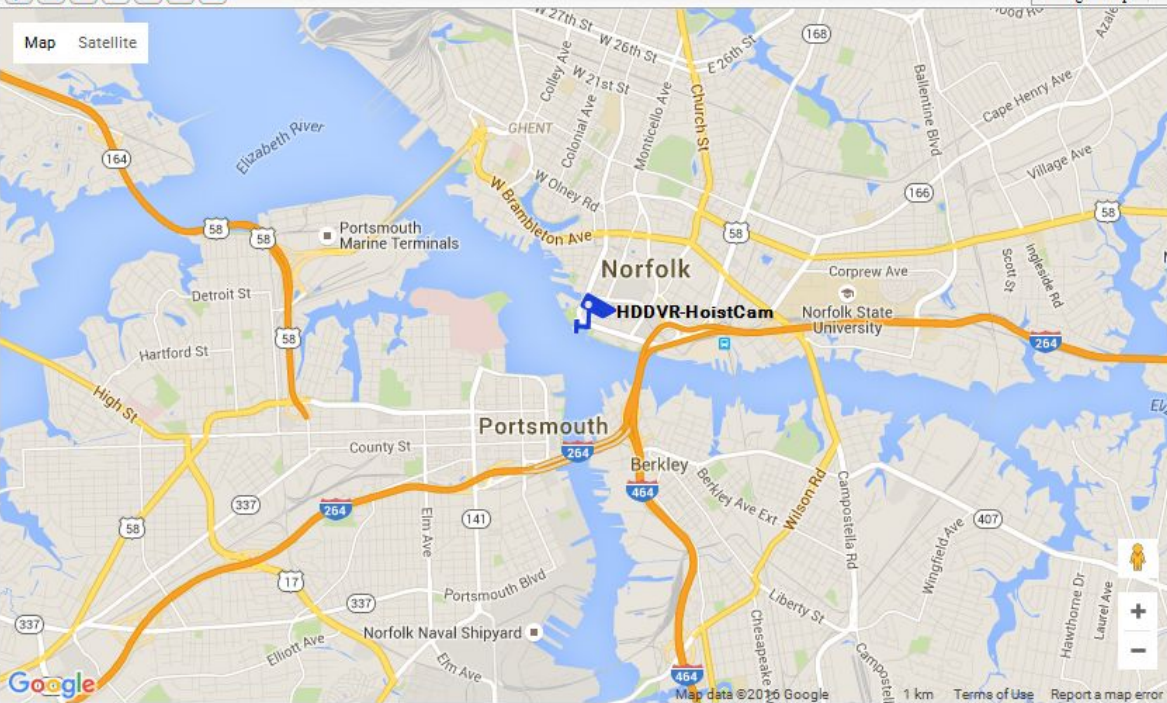
Status   PTZ   Color   VOIP

DeviceType	MDVR
Vehicle Name	HDDVR-HoistCam
Vehicle ID	02663
Company	
Their Group	Monitor Center
Status	Online
Positioning Time	2016-01-07 15:52:12
Vehicle Location	100 E Main St, Norfolk, VA
Speed	0.00 km/h(North)
Costs	Normal

Monitor:1   Online:1   Alarm:0   Offline:0   Idling:1   ACC OFF:0   Position Invalid

Export   Auto Sort

Device	Positioning Time	GPS Position	Speed	Alarm	Status
HDDVR-Hoist	2016-01-07 15:52:12	100 E Main St, Norfolk, VA 23510, USA	0.00 km/h(North),Idle		(Online)Idling

Monitoring   Alarm Information   System Event

1 2 3 4

HoistCam Director Client

Map View   Video View   Tracking   Recording   Settings

Hint: Remote playback of video files consumes a lot of bandwidth. Playback may pause due to latency.

1

Vehicles

HDDVR-HoistCam   Vehicles

Search Time

Time   1/ 7/2016

Start Time   00:00:00

End Time   23:59:59

Vehicle Location

- ○ Vehicle Device (MDVR)
- ○ Local Disk
- ○ Storage Server (Remote)
- ○ Download Server (Remote)

File Type

- ○ Video   ○ Picture

Video Type

- ○ General
- ○ Alarm
- ○ All

Search

00:00:00   00:00:00

Time ❯

File ❯

Download ❯

CH1

00:00   02:00   04:00   06:00   08:00   10:00   12:00   14:00   16:00   18:00   20:00   22:00   24:00

Steps to Capture Data

Select Vehicle

Monitor Center
HDDVR-HoistCam
02282
02586-Highspark
02673

OK   Cancel

File   View   Settings

HoistCam Director Client

Map View   Video View   Tracking   Recording   Settings

Hint: Remote playback of video files consumes a lot of bandwidth. Playback may pause due to latency.

Vehicles

HDDVR-HoistCam   Vehicles

Search Time

Time   1/ 7/2016

Start Time   11:00:00

End Time   12:00:00

Vehicle Location

- ○ Vehicle Device (MDVR)
- ○ Local Disk
- ◉ Storage Server (Remote)
- ○ Download Server (Remote)

File Type

- ○ Video   ◉ Picture

Picture Type

- ○ General
- ○ Alarm
- ◉ All

Search

1

HoistCam™

00:00:00   00:00:00

Time

File

Download

CH1

00:00   02:00   04:00   06:00   08:00   10:00   12:00   14:00   16:00   18:00   20:00   22:00   24:00

Running: 00:10:36   Number of alarms on storage media:0   Online:1 / number of set loss:3 / Arrears:0 / Total:4   line rate:25.00% / Loss rate:75.00%
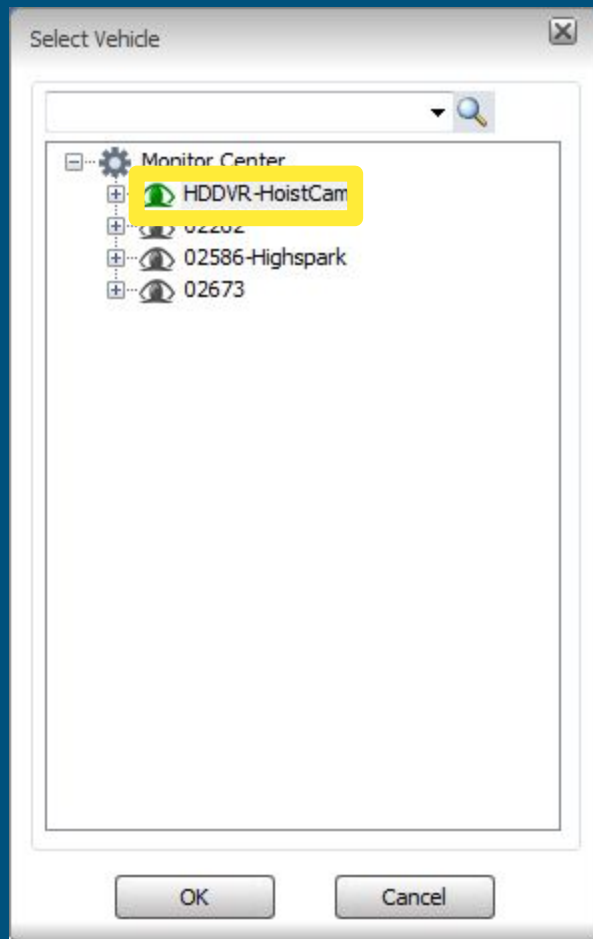
HoistCam Director Client

Map View   Video View   Tracking   Recording   Settings

Vehicles

HDDVR-HoistCam   Vehicles

Search Time

Time 1/ 7/2016

Start Time 11:00:00

End Time 12:00:00

Vehicle Location

○ Vehicle Device (MDVR)
○ Local Disk
● Storage Server (Remote)
○ Download Server (Remote)

File Type

○ Video   ● Picture

Picture Type

○ General
○ Alarm
● All

Search

Hint: Remote playback of video files consumes a lot of bandwidth. Playback may pause due to latency.
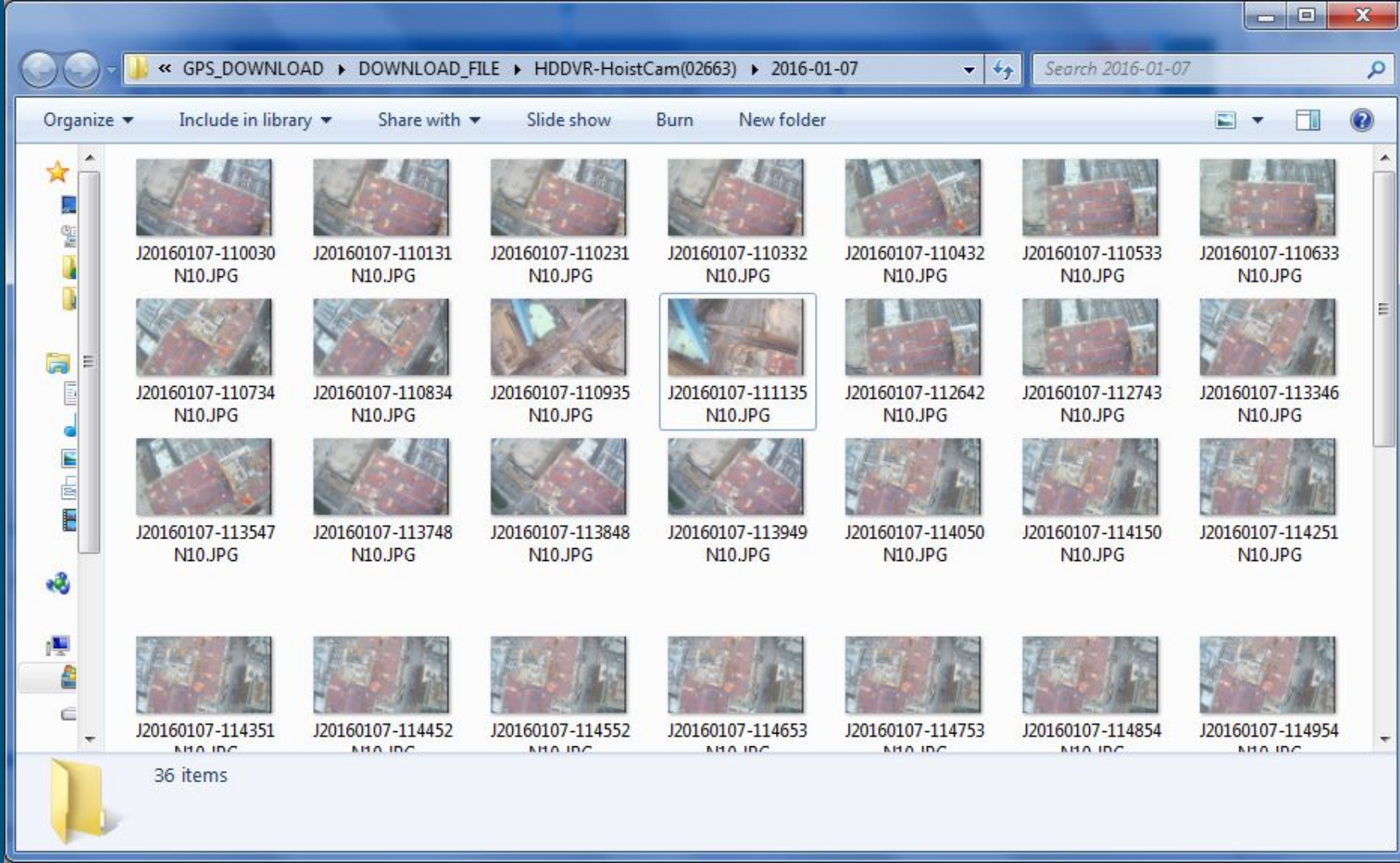
1

HoistCam™

00:00:00   00:00:00

	Time	File ●	Download ●

Time	Type	Vehicle Device (M	Channel	Vehicle Location	Size(MB)	File
11:52:55	General	HDDVR-HoistCam	CH1	Storage Server (R	0.246MB	E:/gStorage/JPEG_FILE/02663/2016-01-07/J20160107-115255N10.JPG
11:53:56	General	HDDVR-HoistCam	CH1	Storage Server (R	0.246MB	E:/gStorage/JPEG_FILE/02663/2016-01-07/J20160107-115356N10.JPG
11:54:56	General	HDDVR-HoistCam	CH1	Storage Server (R	0.247MB	E:/gStorage/JPEG_FILE/02663/2016-01-07/J20160107-115456N10.JPG
11:55:57	General	HDDVR-HoistCam	CH1	Storage Server (R	0.258MB	E:/gStorage/JPEG_FILE/02663/2016-01-07/J20160107-115557N10.JPG
11:56:58	General	HDDVR-HoistCam	CH1	Storage Server (R	0.263MB	E:/gStorage/JPEG_FILE/02663/2016-01-07/J20160107-115658N10.JPG
11:57:58	General	HDDVR-HoistCam	CH1	Storage Server (R	0.265MB	E:/gStorage/JPEG_FILE/02663/2016-01-07/J20160107-115758N10.JPG
11:58:59	General	HDDVR-HoistCam	CH1	Storage Server (R	0.265MB	E:/gStorage/JPEG_FILE/02663/2016-01-07/J20160107-115859N10.JPG
11:59:59	General	HDDVR-HoistCam	CH1	Storage Server (R	0.265MB	E:/gStorage/JPEG_FILE/02663/2016-01-07/J20160107-115959N10.JPG

Download Successfully

Vehicle Name:HDDVR-HoistCam
Source file:E:/gStorage/JPEG_FILE/02663/2016-01-07/J20160107-114250N10.JPG
Save Path:C:\GPS_DOWNLOAD\DOWNLOAD_FILE\HDDVR-HoistCam(02663)\2016-01-07\J20160107-114250N10.JPG

Running: 00:12:37   Number of alarms on storage media:0   Online:1 / number of set loss:3 / Arrears:0 / Total:4   line rate:25.00% / Loss r

Steps to Capture Data

Project Process View rayCloud Help

Project Process View Clipping Point Cloud Editing Scale/Orient Orthoplane Measure Video Animation

Render Data with Pix4D

Welcome
Map View
rayCloud
MosaicEditor
Index Calculator

- Cameras
- Rays
- Tie Points
  - Manual / GCPs
  - Automatic
  - Processing Areas
- Point Clouds
  - Densified Point Cloud
    - Display Properties
    - hd pictures every 1 minute - 20151217_...
      - Display Properties
        Point Size
        Shader Screen Aligned Quads
  - External Point Clouds
- Point Groups
  - Unclassified
  - Deleted
- Triangle Meshes
  - Display Properties
  - Mesh hd pictures every 1 minute - 201512...
- Objects

Unclassified   Assign

Properties

Arbitrary (ft) - (37.18, -77.67, -745.78) [ft]