

# Working with Video Data

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Skydeck enables you to capture and visualize videos of your site. These videos offer a dynamic and real-time perspective of your site activities, providing valuable insights and numerous applications for surveillance, monitoring, and more.

In this section, you will look at:

- [Uploading Video Data](#)
- [Visualizing Video Data](#)
- [Annotating Video Data](#)
- [Generating the Video Bookmark Report](#)

## Uploading Video Data

1. Select the snapshot where you want to upload the video(s), and click **Datasets**. The **DATASET** page is displayed. OR On the DATASET page, select the date of the snapshot from the date dropdown.
2. Select the **Videos** tab.

If the Videos tab is not displayed, you can add it by clicking the **add** icon, under the date dropdown.

3. **Drag and drop videos here** or click **Browse Videos** to add the video files to the snapshot.

The accepted file formats include MP4 for videos and JSON for telemetry data.

The screenshot shows the DroneDeploy interface for uploading videos. At the top, it displays 'Sion Mumbai, Mumbai, India' and a 'More Details' button. Below that is a dropdown for 'DATASET' set to '2023/08/10'. A sidebar on the left includes icons for location, dataset, and notifications. The main area is titled 'Videos' and contains a message: 'Please select video(s)/telemetry files to upload.' A red box highlights a central upload area with a file icon, instructions about supported video types (UAV/CCTV/Mobile), and options to 'Drag and drop videos here' or 'Browse Videos'.

## Upload Video

You can also upload video telemetry information (if available) with the video, providing a synchronized view of flight telemetry on the map. Ensure the telemetry file has the same filename as the video.

This screenshot shows the same interface as above, but with a red box highlighting the right side where upload progress is displayed. It shows 'Uploading Videos (0/2)' at 32% completion, a total size of '78.2 MB/241 MB', and a list of uploaded files: 'Tower inspection.mp4' and 'Road Survey.mp4'.

## Video Upload Progress

Once the video upload is complete, it will take a few minutes before the Video is ready for visualization.

# Visualizing Video Data

All the video data captured for a site and uploaded to the snapshot is displayed on the site's video directory page in a card layout. Any live streams done using Skydeck are also automatically uploaded here as a Video.

The screenshot shows the 'Video' tab selected in the top right corner of the interface. Below it, a grid displays four video thumbnails: 'Monitoring.Mp4', 'Village\_Survey.Mp4', 'Tower Inspection.Mp4', and 'Road Survey.Mp4', all uploaded on 15 Sep 2023. The interface includes a sidebar with navigation icons and a main content area with mission history and document links.

Video Directory Page

1. Select the snapshot where the video(s) have been uploaded. The video starts playing in the left pane and the map is displayed on the right pane.

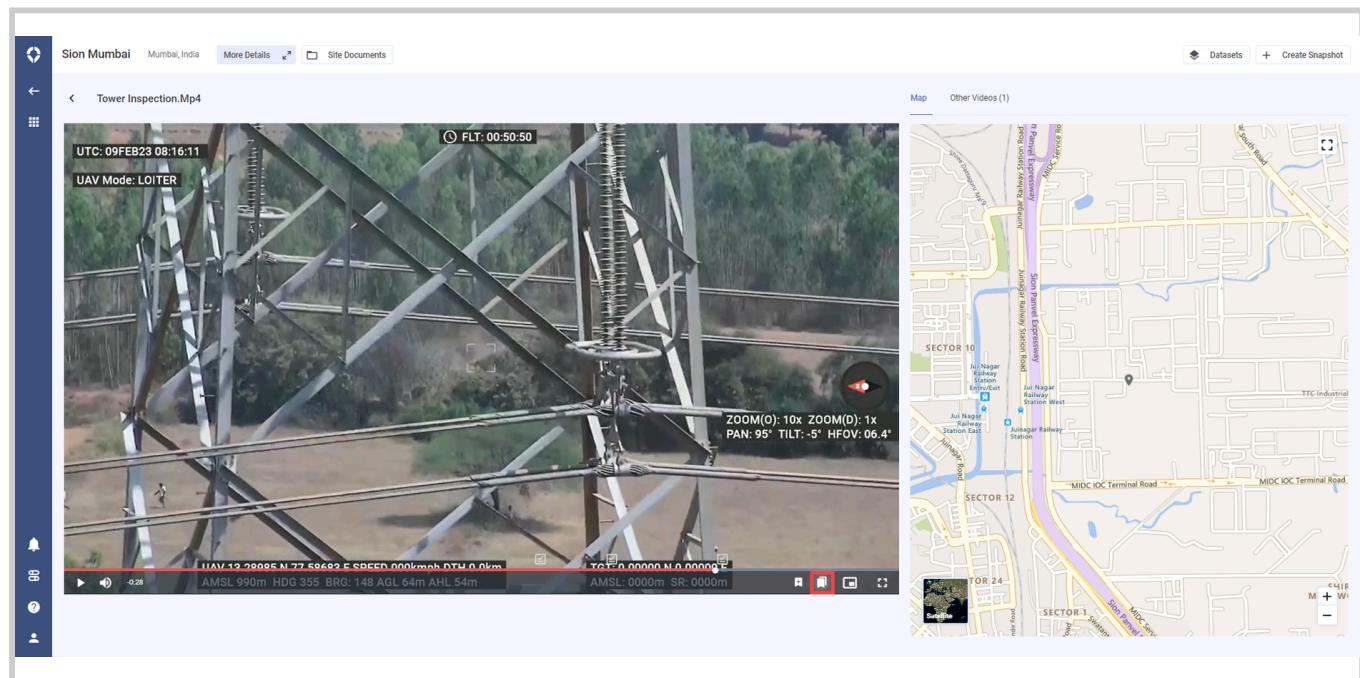
The screenshot shows a video player on the left displaying an aerial view of a rural landscape with fields and buildings. A red timeline bar at the bottom indicates the video is at 5:52. To the right is a map titled 'Map' showing a route from Diksal to Valva. The map includes place names like Wavare, Kariyat, Newali, Palasdari, Beed Kh., Khandpe, Vadap, Bhairwadi, Kadav, Ambot, Gauwari, Salpe, and Udnewadi. A yellow polygon is drawn around a specific area on the map. Navigation controls and a satellite view button are visible at the bottom of the map.

Video with Telemetry Map

If the video has a corresponding telemetry file uploaded, the map area will display the location of the UAV as it moves around the area as per the video timestamp.

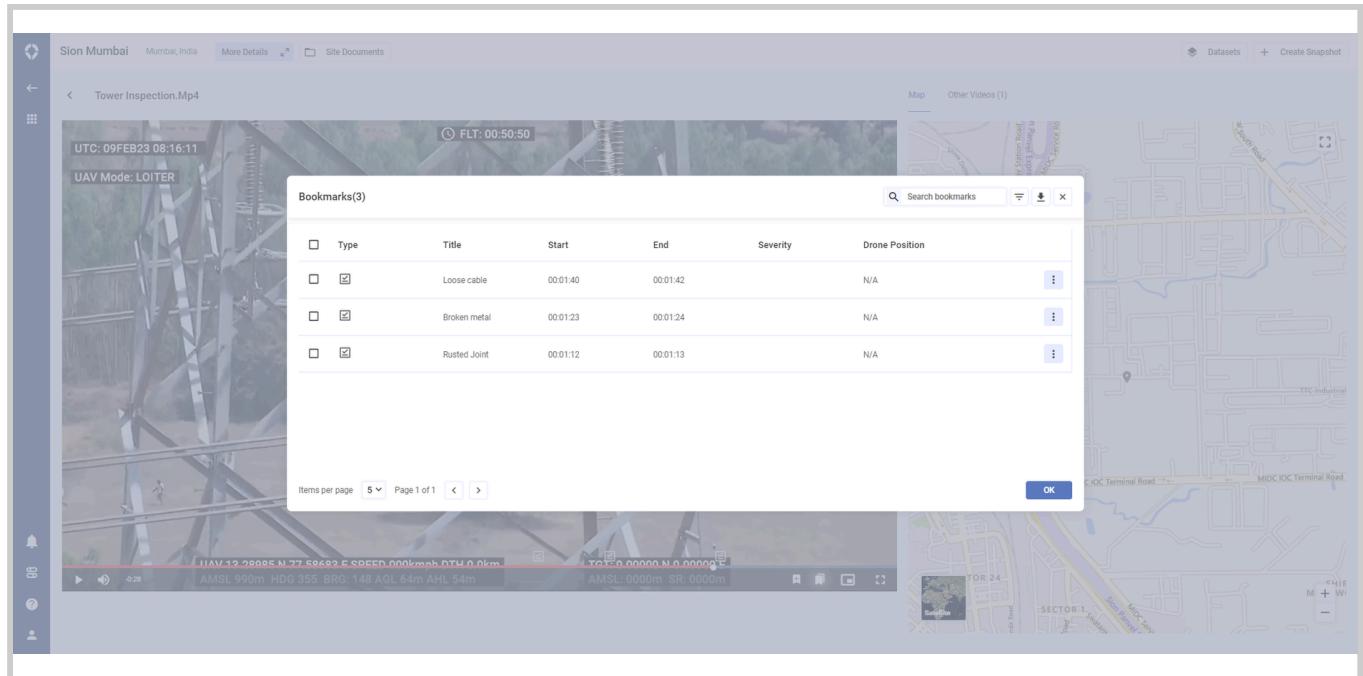
2. To see other videos uploaded to the snapshot, click Other Videos, above the map area.
3. To view all the annotations (if any) on the video, click the **bookmarks** icon.

For more information on creating annotations, click [here](#).



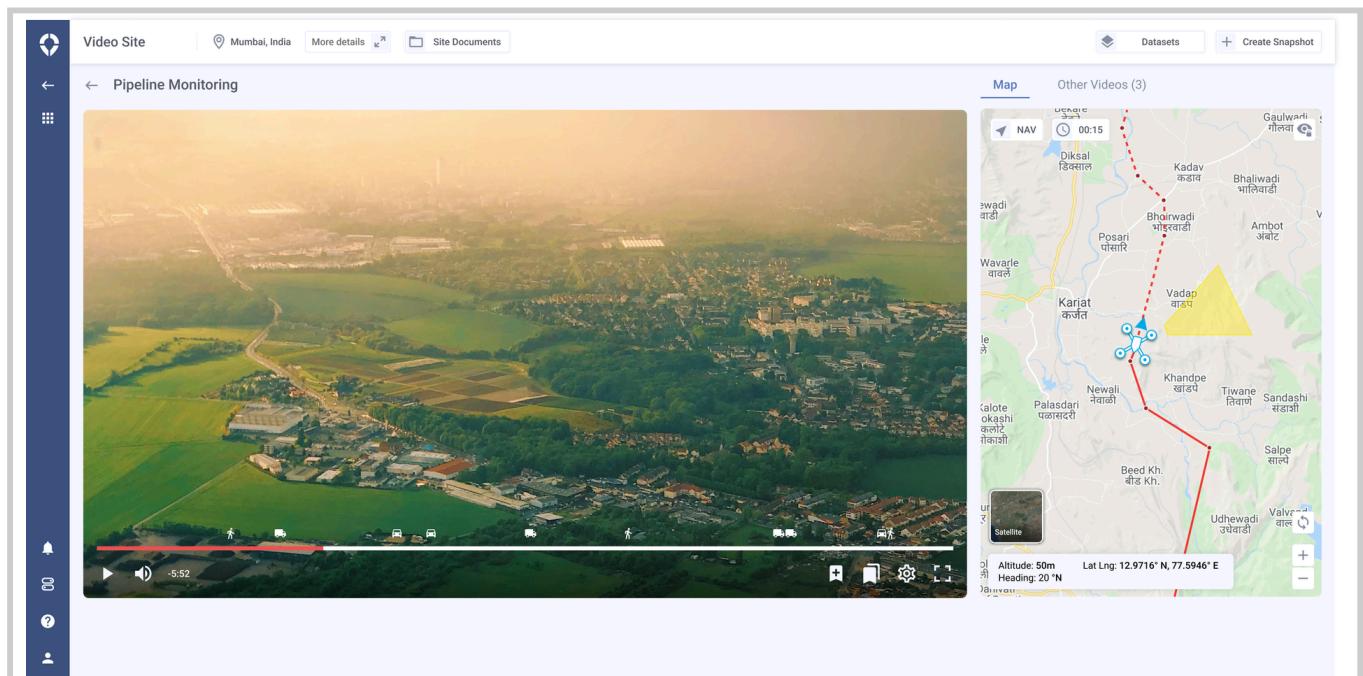
Bookmark Icon

The Bookmarks pop-up is displayed.



### Bookmarks Pop-Up

## Viewing video data along with the telemetry map



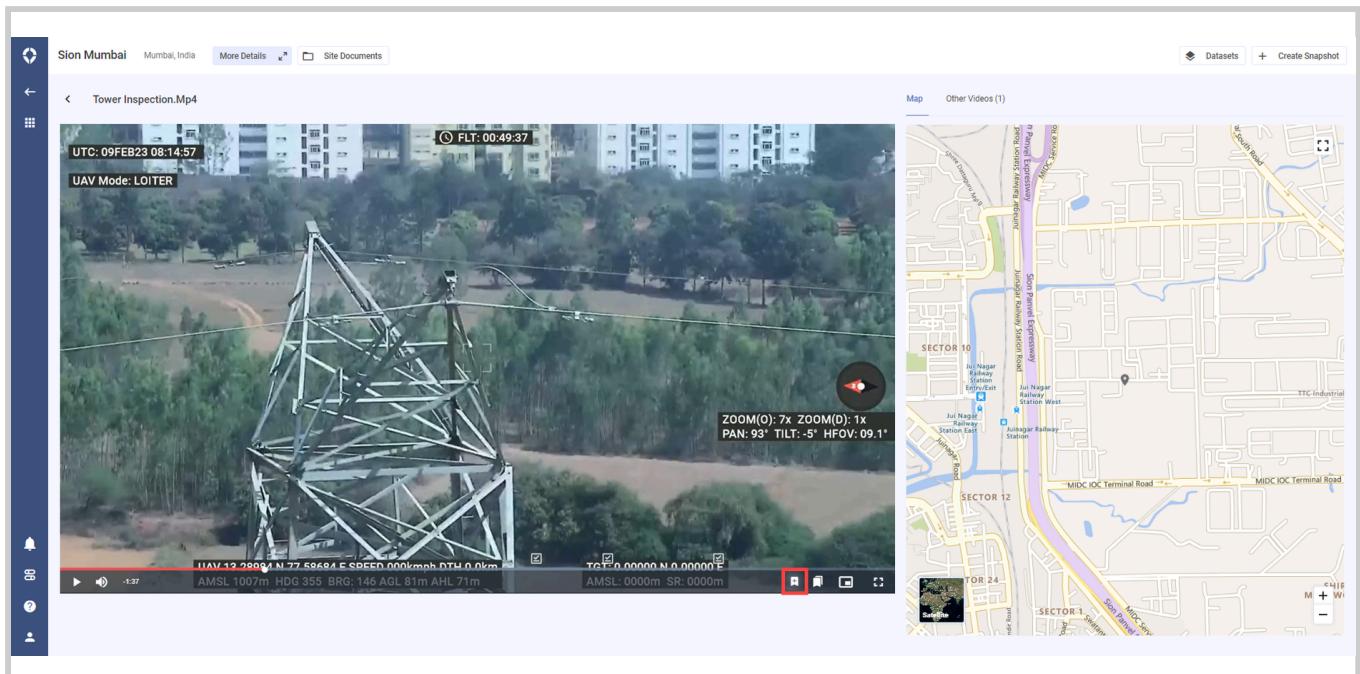
### Mid-Flight Video with Telemetry Map

- The solid red line depicts the path that the UAV has covered and the dotted red lines show the path to be covered by the UAV.
- The blue arrow on the map shows the direction in which the UAV is flying.
- The yellow highlighted area shows the area that the camera is capturing.
- The top left corner of the map area shows if the drone is:
  - **Alt Hold:** Drone holds altitude and self-levels the roll and pitch
  - **NAV:** Drone executes the pre-defined mission
  - **Guided:** Drone follows instructions from the Ground Control Station

- **Loiter:** Drone holds altitude and position
- **RTL:** Drone returns to the take-off position
- The refocus icon can be enabled to recenter on the area where the UAV is flying.
- The bottom left of the map area shows the altitude, the latitude, the longitude and the direction in which the UAV is headed. For example, a reading of -14.5° N means that the UAV is flying 14.5° to the left of the North.

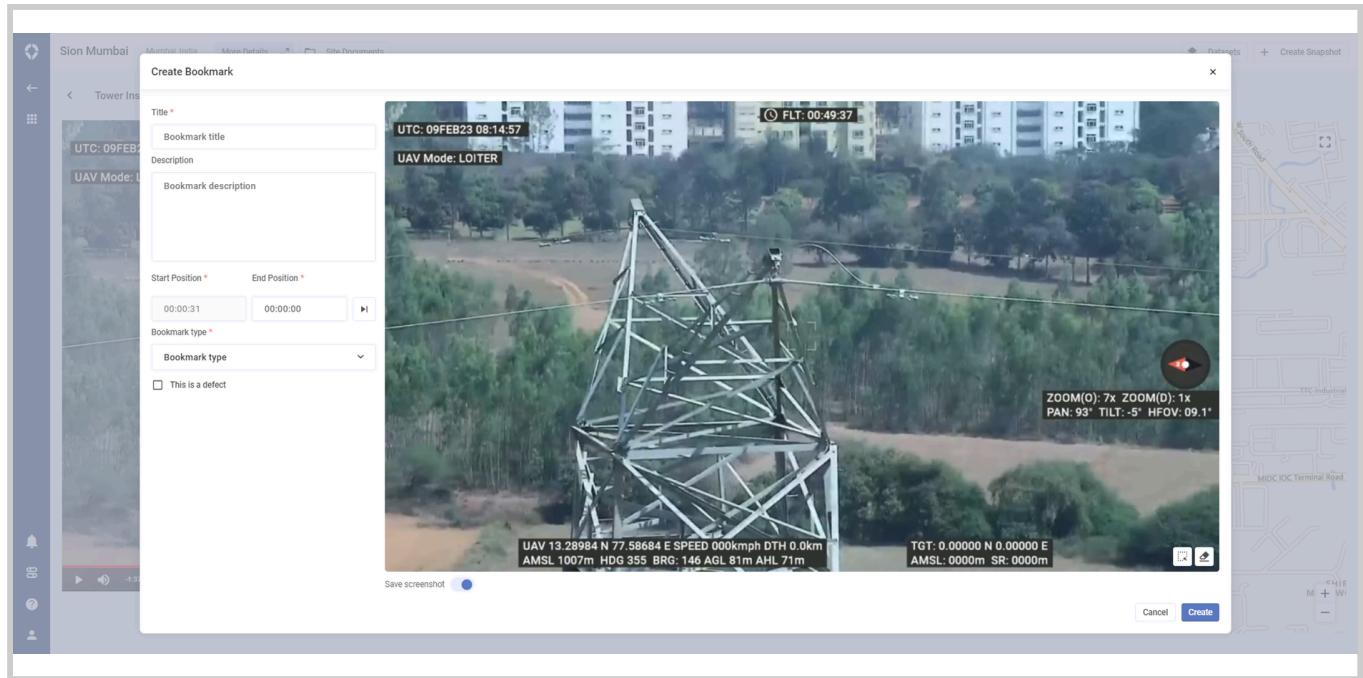
## Annotating Video Data

1. On the timestamp, where you need to add an annotation, click the **add bookmark** icon.
2. When the seek bar reaches the timestamp, where you need to add an annotation, click the **add bookmark** icon.



Add Bookmark

The **Create Bookmark** pop-up is displayed.



### Create Bookmark

3. Enter or select the following details:

Field	Description
<b>Title*</b>	Enter a title for the bookmark
<b>Description</b>	Enter a meaningful description for the bookmark
<b>Start Position*</b>	<p>The start position of the video is automatically captured by default when you click on the add bookmark icon, using its current timestamp.</p> <p>This is a read-only field.</p>
<b>End Position*</b>	Enter the end timestamp for the bookmark. You can also use the forward button to populate the last timestamp of the video.
<b>Bookmark type*</b>	Select the type of the bookmark from the dropdown.
<b>This is a defect</b>	Select this checkbox if you want to mark a defect at this timestamp in the video.
<b>Annotate on Image Icon</b>	<p>Click the marker icon to draw a marker around the area or object you want to highlight in the video.</p> <p>This marker is only displayed between the start and end position timestamps.</p>
<b>Clear Annotation Icon</b>	Click the erase icon to erase the drawn marker.
<b>Save screenshot</b>	<p>This option is enabled by default and saves the frame of the video as an image.</p> <p>You can turn off the toggle if you do not wish to save the video frame for the bookmark.</p>

Click **Create**.

Created bookmarks can be identified by the annotation icons on the seek bar of the video player. You can click on these icons to play the video from the annotated frame.



Sion Mumbai Mumbai, India More Details Site Documents

Map Other Videos (1)

UTC: 09FEB23 08:15:41  
UAV Mode: LOITER

ZOOM(0): 10x ZOOM(D): 1x  
PAN: 96° TILT: -5° HFOV: 06.4°

AMSL: 999m HDG 354 BRG: 147 AGL 73m AHL 63m

AMSL: 0000m SR: 0000m

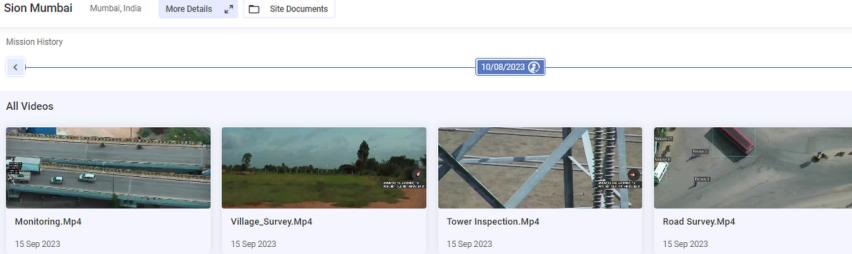
AMSL: 0000m SR: 0000m

Created Bookmarks

## Generating the Video Bookmark Report

You can generate a report on the video bookmarks for a quick analysis/xxx.

1. On the video directory page, click **Generate Report**.



Sion Mumbai Mumbai, India More Details Site Documents

Mission History

10/08/2023

All Videos

Monitoring.Mp4 15 Sep 2023

Village\_Survey.Mp4 15 Sep 2023

Tower Inspection.Mp4 15 Sep 2023

Road Survey.Mp4 15 Sep 2023

Items per page: 5 Page 1 of 1 Generate Report

Generate Bookmark Report

The **Generate Bookmark Report** pop-up is displayed.

The screenshot shows a software interface for managing site documents and missions. At the top, it displays 'Sion Mumbai, Mumbai, India' with links for 'More Details' and 'Site Documents'. On the right, there are buttons for 'Datasets', 'Create Snapshot', 'Mission History', 'All Videos', and 'Compare Missions'. The main area shows a list of videos under 'All Videos': 'Monitoring.Mp4' (15 Sep 2023) and 'Village\_Survey.Mp4' (15 Sep 2023). A modal window titled 'Generate Bookmark Report' is open, listing four videos with their details:

Title	Date	Duration	Annotations
Monitoring.mp4	15/09/2023	00:04:31	0
Village_Survey.mp4	15/09/2023	00:13:13	0
Tower inspection.mp4	15/09/2023	00:02:08	3
Road Survey.mp4	15/09/2023	00:05:18	0

Below the table, there are sections for 'Customize Report Content' with checkboxes for 'Order Annotations by severity' and 'Filter Annotations by Severity' (dropdowns for 'Choose Option'). There is also a 'Filter Annotations by Type' section with a dropdown for 'Choose Option'. At the bottom right of the modal is a red-bordered button labeled 'Download PDF Report'.

### Select Options for Report Generation

1. Select the video for which the report is to be generated.

Only the videos with annotations are enabled for selection.

3. To customize the report content, select from the following options:

- **Order Annotations by severity:** Select this checkbox to display the annotations by severity in the report.
- **Filter Annotations by Severity:** Select the severity from the dropdown to filter annotations accordingly in the report. For example, if you select Severity 2, only the bookmarks marked with a severity level of 2 will be displayed in the report. You can select multiple options here.
- **Filter Annotations by Type:** Select the type of annotation from the dropdown to filter annotations accordingly in the report. For example, if you select Security, only the bookmarks labelled as security will be displayed in the report. You can select multiple options here.

4. Click **Download PDF Report**. The downloaded report displays information based on the selected filter.

Mission Date: Jan 21, 2023 Mission Type: Survey Company: Telecom Reported observations: 28 Image annotations: 12



For a more detailed overview view this survey on [Skydeck](#)

#### Severity overview



Video Bookmark Report - Severity Overview

## Flight : Tower-1B12



Severity: 5 Type: Structural

ID: 001  
Title: Missing Member  
Drone position: 12.9716° N, 77.5946° E  
Video timestamp: 14:23:00

Description:  
Tower support Structure missing



Severity: 3 Type: Structural

ID: 002  
Title: Light Rust  
Drone position: 12.9721° N, 77.5943° E  
Video timestamp: 15:13:00

Description:  
Rusting on bolts

## Video Bookmark Report - Annotation Severity and Type



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