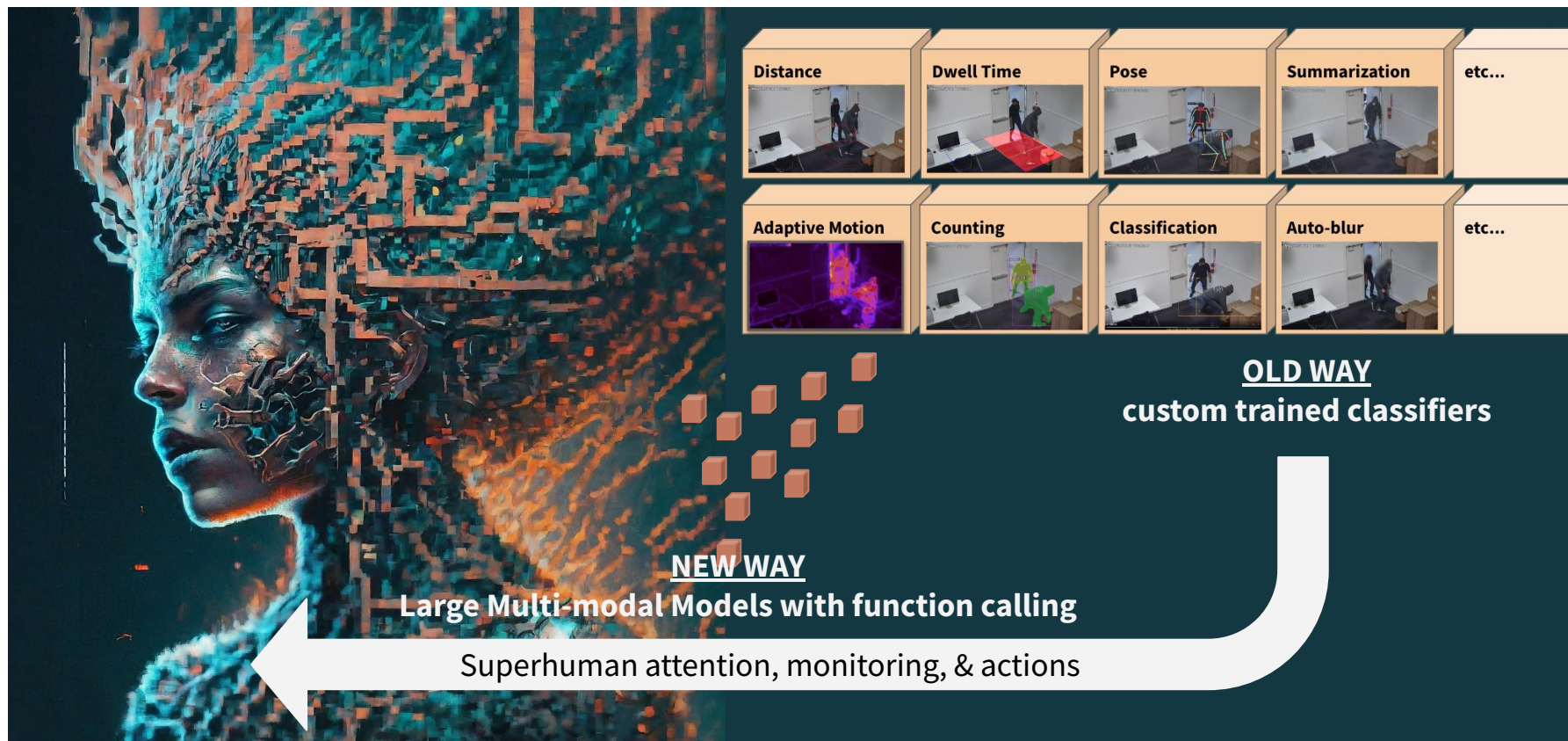


SEA CHANGE IN AI



Relevant Text

Whenever the conveyor is moving, there must be at least two staff members present.

The staff member performing the vaccine vial QA check must be wearing latex gloves, a white hairnet, and a face covering.

The staff member must select a vial using only metal tongs (not using their hands), but it's OK to return the vial to the conveyor with their hands.

Assessment

There is only one staff member present. Whenever the conveyor is moving, there must be at least two staff members present. Please call for backup.

The staff member is wearing latex gloves, a white hairnet, and a face covering, so this policy is compliant.

The staff member is selecting a vial using only metal tongs, so this policy is compliant.

Recommended Message

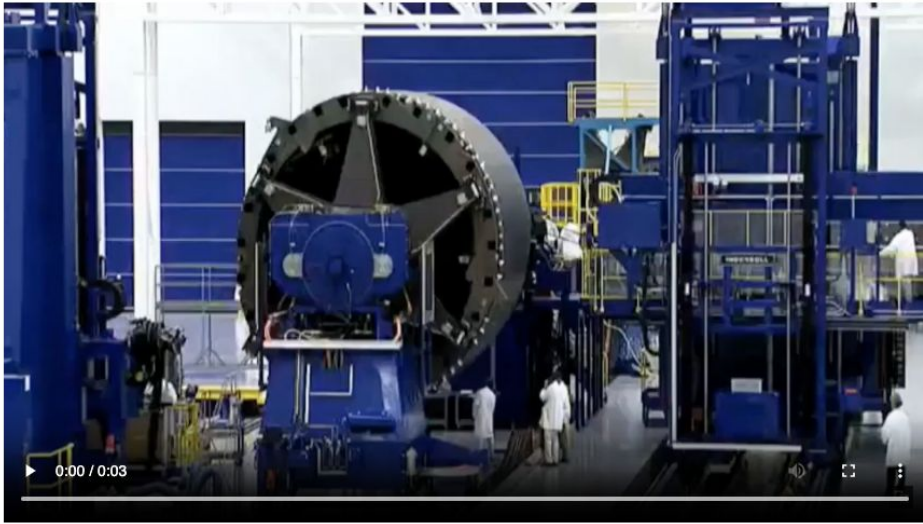
There is only one staff member present. Whenever the conveyor is moving, there must be at least two staff members present. Please call for backup.



1. There is only one staff member...

1. There is only one staff member present. Whenever the conveyor is moving, there must be at least two staff members present. Please call for backup. 2. The staff member is wearing latex gloves, a white hairnet, and a face covering, so this policy is compliant. 3. The staff member is selecting a vial using only metal tongs, so this policy is compliant. *Recommended message*: *There is only one staff member present. Whenever the conveyor is moving, there must be at least two staff members present. Please call for backup.* A person wearing a blue uniform, blue latex gloves, a white hairnet, and a face covering is standing in a sterile environment. They are using metal tongs to select a vial from a circular metal conveyor belt that's rotating. They are returning vials to the conveyor belt with their hands. There are several vials on the conveyor belt, and there are metal cabinets in the background, some of which have warning

Relevant Text	Assessment	Recommended Message
Nobody should stand behind the rotating fuselage.	The image shows one inspector standing behind the fuselage. This policy is not compliant.	Please step away from the rotating fuselage, you are violating safety protocol. You are the inspector in the white coat who is facing the camera with his back to the fuselage.
There must be at least one inspector dressed in a white coat observing the composite fuselage as it is rotating.	The image shows at least one inspector dressed in a white coat observing the composite fuselage as it is rotating. This policy is compliant.	



1. The image shows one inspector standing...

1. The image shows one inspector standing behind the fuselage. This policy is not compliant. 2. The image shows at least one inspector dressed in a white coat observing the composite fuselage as it is rotating. This policy is compliant. *Recommended message*: *Please step away from the rotating fuselage, you are violating safety protocol. You are the inspector in the white coat who is facing the camera with his back to the fuselage.*

The image shows a large composite fuselage rotating in a factory setting. There are four inspectors dressed in white lab coats and blue pants. One inspector is standing in front of the fuselage, raising his arms to the side of his body while looking down at the machine. A second inspector is standing to the left of the fuselage, grabbing the control panel to his left and looking down at the machine. The third inspector is standing to the right of the fuselage, reaching his left hand to the panel on his right and looking down at the machine. The fourth inspector is standing to the right of the fuselage with his back to the camera. There is a large metal structure to the right of the image and a smaller one to the left of the

Relevant Text

As the airbag fabric is rolled up, there must not be any damaged fabric or inconsistencies in the material. Ensure the airbag exhibits no wrinkles or deformations.

Assessment

The airbag fabric is being rolled up by an automated machine without any signs of damage, inconsistencies, wrinkles, or deformations. The material is consistent and shows no flaws.

Message



The airbag fabric is being rolled up...

****The airbag fabric is being rolled up by an automated machine without any signs of damage, inconsistencies, wrinkles, or deformations. The material is consistent and shows no flaws.**** The airbag fabric is being rolled up on a metal table with automated equipment. There are no inconsistencies in the material or any damage to the fabric. There are no wrinkles or deformations in the airbag.

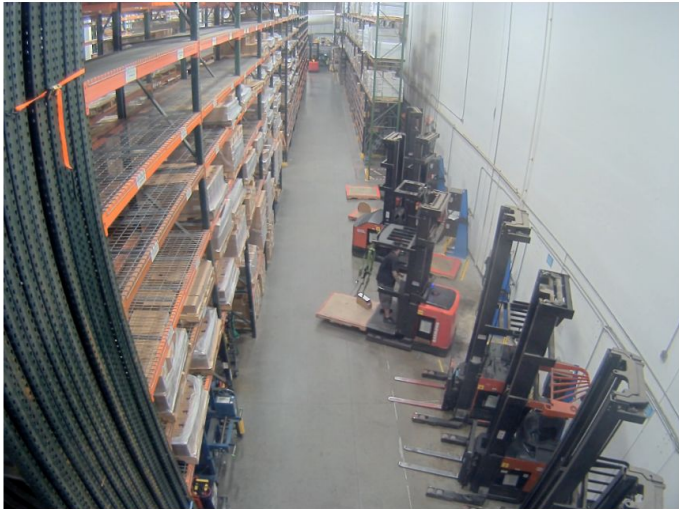
```
{
  "date_updated": "Thu, 17 Oct 2024 16:49:28 GMT",
  "description": "**The airbag fabric is being rolled up by an automated machine without any signs of damage, inconsistencies, wrinkles, or deformations. The material is consistent and shows no flaws.** The airbag",
  "files": [
    {
      "bucket": "camioai_temp_files",
      "content_type": "video/mp4",
      "name": "/u/g_101598035873719212324/007989f2a106cb2d8d25620468207f62730896cd1a8ecc6083833f1d66553ae5794f7b556360bd014c2fda1189994eab3a33c07b582e5336e293de7c80d1da77d4e078e4_95da0bd2499843c7b473180267ae81d5",
      "tmp_name": "/tmp/g_101598035873719212324_0_95da0bd2499843c7b473180267ae81d5",
      "url": "https://ai.camio.com/api/content/u%2Fg_101598035873719212324%2F007989f2a106cb2d8d25620468207f62730896cd1a8ecc6083833f1d66553ae5794f7b556360bd014c2fda1189994eab3a33c07b582e5336e293de7c80d1da77d4e078e4_95da0bd2499843c7b473180267ae81d5"
    }
  ]
}
```

Copy JSON

1. MEDIUM deviation - The pi x +

ai.camio.com/tests/eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpZCI6Imc6MTAxNTk4MDM1ODczNzE5MjEyMzI0XzE3MTk5NTlxNTM1MzEifQ.XIXE_OihP7SPiFkYL0qAmlid5WfF... Finish update

Relevant Text	Assessment	Recommended Message
Each person on a forklift must wear a bright yellow or bright orange safety vest.	The person on the forklift is not wearing a bright yellow or bright orange safety vest; they are wearing a black safety vest.	Attention, forklift driver! Please put on a bright yellow or bright orange safety vest immediately. Your safety vest color is not compliant with the warehouse safety standards.
The view of every location should never be blurry.	The view is clear.	
No person should ever be lying on the ground.	The person is standing upright.	
No weapons are allowed. Firearms, knives, and any other dangerous weapons are prohibited.	No weapons are visible.	
Any smoke or fire is an urgent problem that needs immediate attention of the security team.	There is no visible smoke or fire.	
Each camera must maintain the same view of the same scene; any camera movement more than 5 degrees in any direction is a violation of policy.	This camera appears to be static.	



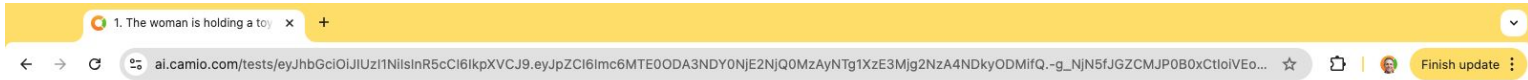
1. The person on the forklift is...

****1. The person on the forklift is not wearing a bright yellow or bright orange safety vest; they are wearing a black safety vest. 2. The view is clear. 3. The person is standing upright. 4. No weapons are visible. 5. There is no visible smoke or fire. 6. This camera appears to be static.****

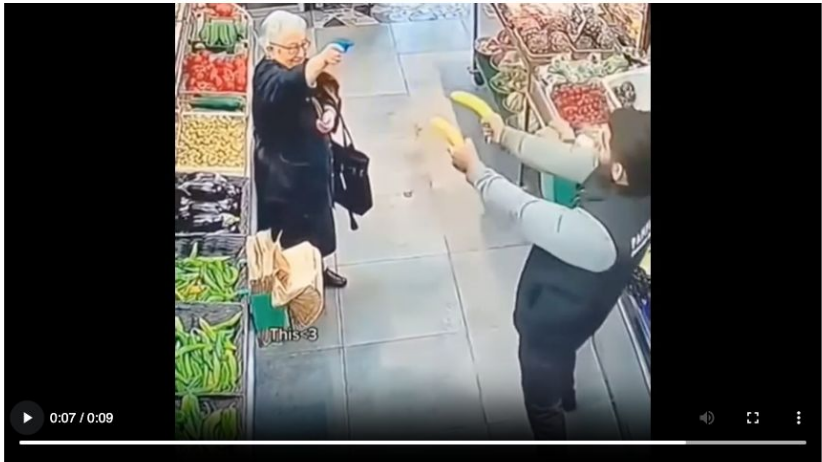
Recommended message*: *Attention, forklift driver! Please put on a bright yellow or bright orange safety vest immediately. Your safety vest color is not compliant with the warehouse safety standards.

The scene shows a long, narrow warehouse with orange shelving units on either side, and a forklift, which is red and has a black and gray base, is moving down the aisle toward the right side of the image. The forklift driver is wearing a black safety vest, not a bright yellow or bright orange safety vest, and is reaching to the right of the fork with his left hand, potentially to grab a box. The scene is clear with no blurriness. The driver is standing upright. There is no smoke or fire.

CAPABLE OF SUBTLITIES



Relevant Text	Assessment	Message
No weapons are allowed. Firearms, knives, and any other dangerous weapons are prohibited. Squirt guns and toy guns are fine.	The woman is holding a toy gun. The man is holding two bananas as if they are guns. The policy states squirt guns and toy guns are fine so this is compliant.	
Any smoke or fire is an urgent problem that needs immediate attention of the security team.	There is no smoke or fire in the scene.	



1. The woman is holding a toy...

1. The woman is holding a toy gun. The man is holding two bananas as if they are guns. The policy states squirt guns and toy guns are fine so this is compliant. 2. There is no smoke or fire in the scene. A woman with white hair is wearing a black jacket, a light brown scarf, and white pants. She is holding a brown paper bag with a green plastic bag on top of it. She is facing toward a man wearing a grey vest and blue jeans. He is holding a yellow banana in each hand, pointing them at the woman as if he is holding a gun. The woman is pulling out a blue toy gun from her brown purse and pointing it at the man. The man is turning his body toward the woman. There is a cart in the middle of the scene with a box of oranges and a box of black fruit on top of it.

```
{
  "camera_name": "Produce Isle",
  "date_updated": "Fri, 11 Oct 2024 18:21:20 GMT",
  "description": "**1. The woman is holding a toy gun. The man is holding two bananas as if they are guns. The policy states squirt guns and toy guns are fine so this is compliant.\n2. There is no smoke or fire in the scene.**",
  "files": [
    {
      "bucket": "camioai_temp_files",
      "content_type": "video/mp4"
    }
  ]
}
```

Copy JSON

CAPABLE OF SUBTLITIES

Relevant Text	Assessment	Recommended Message
No weapons are allowed. Firearms, knives, and any other dangerous weapons are prohibited unless carried by a uniformed police officer.	MEDIUM deviation: The four people in this scene appear to be police officers but their uniforms are not visible. It is impossible to determine if they are authorized to be carrying firearms without knowing if they are uniformed police officers.	Please ensure that all personnel are in proper uniform. All weapons should be visible. We are authorized to remove any unauthorized weapons.
Any smoke or fire is an urgent problem that needs immediate attention of the security team.	No deviation: There is no smoke or fire in this scene.	



1. MEDIUM deviation: The four people in...

****1. MEDIUM deviation:** The four people in this scene appear to be police officers but their uniforms are not visible. It is impossible to determine if they are authorized to be carrying firearms without knowing if they are uniformed police officers. 2. No deviation: There is no smoke or fire in this scene. **** *Recommended message*:** *Please ensure that all personnel are in proper uniform. All weapons should be visible. We are authorized to remove any unauthorized weapons.* Four people are entering a hallway from a doorway to the right. The person leading the group is reaching for a door handle on the wall. This person is holding a long, black firearm. The second person is walking with a black firearm, and the person in the back of the group is walking with a black firearm. The person in the front of the group is wearing a black helmet, a black shirt, a black vest, and black pants. The second person is wearing a black helmet, a black shirt, a black vest, a black belt with a black holster that appears to be holding a firearm, and green cargo pants. The third person is wearing a black helmet. a black shirt.

VECTOR SEARCH



A man wearing a black t-shirt with a skull design and khaki pants is standing in a driveway. A black Nissan Frontier pickup truck with the California license plate 8J53976 is parked behind him with the tailgate open. The truck is towing a trailer with the license plate 2DK5538. The man approaches the truck and appears to be speaking with the driver. The man then walks away, and the truck pulls out of the driveway.

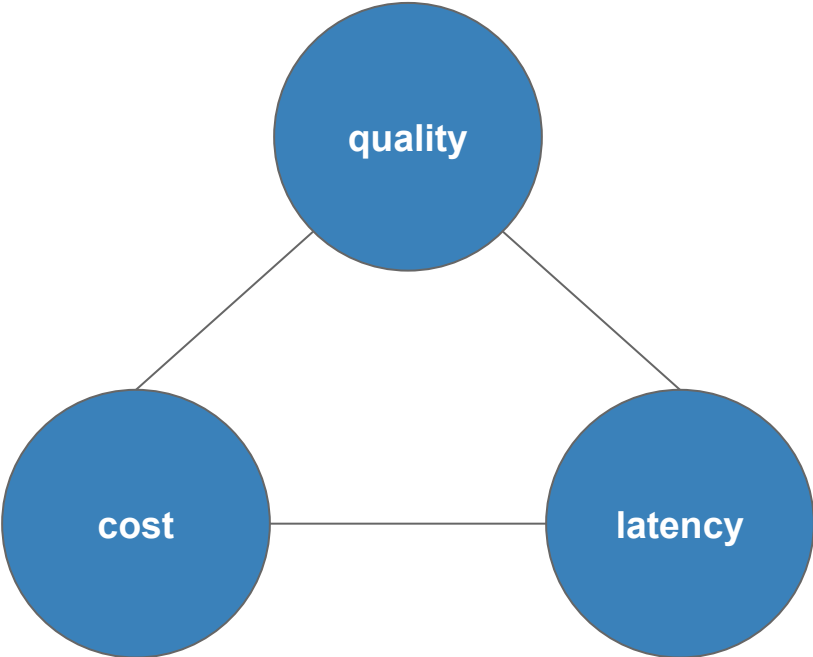
CAMIO VECTOR SEARCH

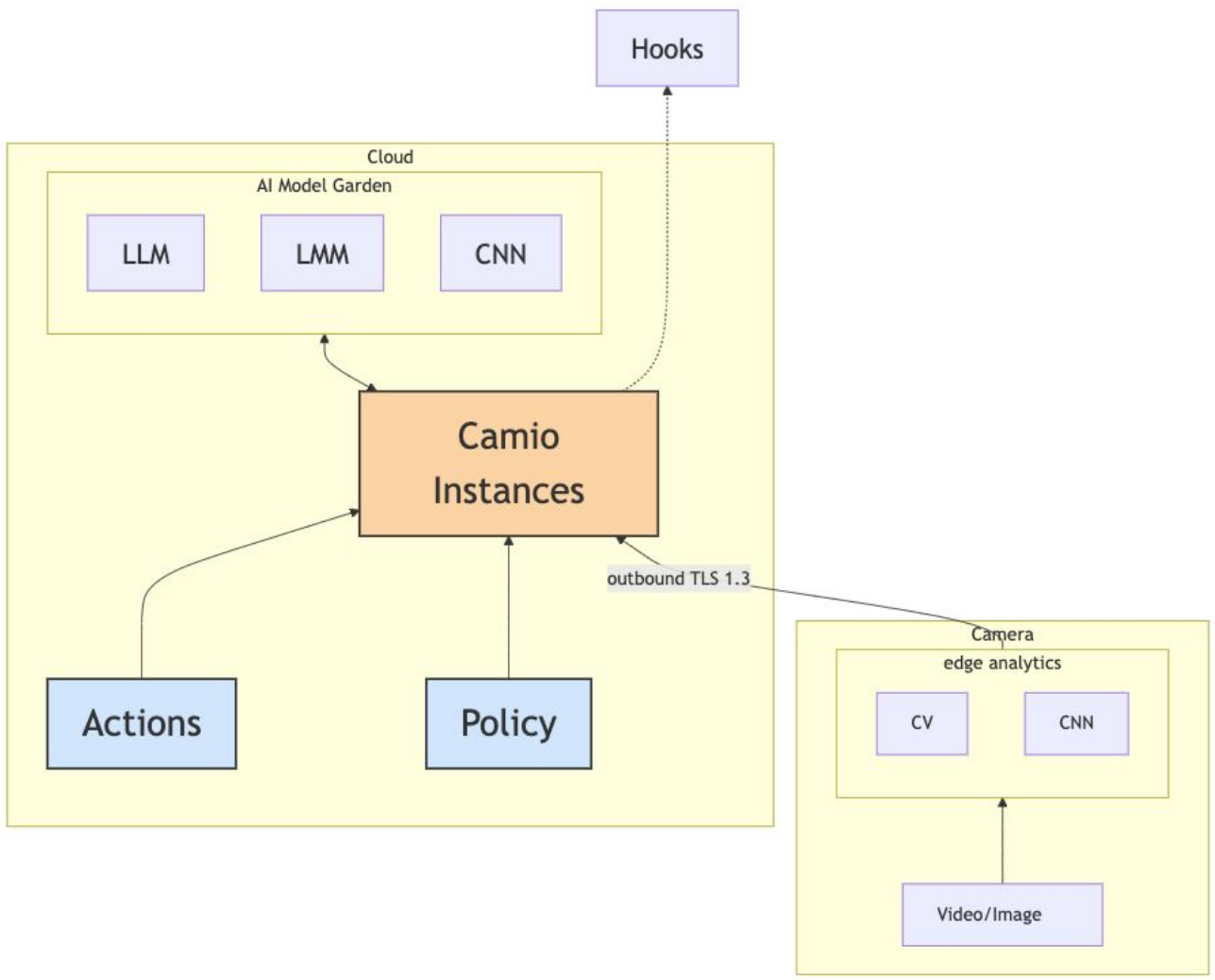
- Cost effective
 - Makes use of LMMs & LLMs cheaper by filtering work in a multi-stage pipeline
- Intuitive
 - Just say what you want—no learning curves
- Examples
 - **man in a strange shirt**

<https://ai.camio.com/api/search/?text=man%20in%20a%20strange%20black%20shirt>

```
{
  "query": {
    "text": "man in a strange black
shirt"
  },
  "results": [
    {
      "events": "[\n {\n
\"camera\": \"Chaplin Ave\", \n
\"timestamp\":
\"2024-05-05T12:35:41.135-0700\", \n
\"text\": \"A man wearing a black
t-shirt with a skull design and khaki
pants is standing in a driveway.\", \n
\"probability\": 0.92\n }, \n {\n
\"camera\": \"UVA SALA CAMBIO\", \n
\"timestamp\":
\"2024-05-15T09:56:37.298-0700\", \n
\"text\": \"A man in an orange jumpsuit
is visible\", \n
\"probability\":
0.85\n } \n]"
    }
  ],
  "usage": {
    "total_tokens": 1491
  }
}
```

"THE BEST" AI





camio

real-time video search

SUPPLEMENTAL SLIDES

ACTIONS

The screenshot shows the 'Actions' configuration page in a web browser. The page title is 'Actions' and the URL is 'ai.camio.com/actions/'. The configuration includes:

- Name:** Discord Notification
- Description:** Use this to notify security of significant policy violations. This description determines when this action is triggered.
- Method:** POST
- URL:** `https://discord.com/api/webhooks/1246513473895268393/mTq`
- Body Parameters:** A section with an 'Add Body Parameter' button and a 'JSON Template' field containing a JSON object with variables like `{{title}}`, `{{image_url}}`, `{{description}}`, `[[View it now]]`, `{{content_url}}`, `15258703`, and `[[url]]`.

At the bottom, a note states: 'This template will be in the payload of the POST with Content-Type "application/json". Camio will replace the following variables in `{{ title }}`, `{{ description }}`, `{{ camera_name }}`, `{{ timestamp }}`, `{{ image_url }}`, `{{ search_url }}`'.

The screenshot shows a Discord message in the '# security' channel. The message is from the 'camio APP' and is timestamped 'Today at 9:03 AM'. The message content is:

VIOLATION - The person in the scene... at [Search 2024-07-12T16:03:16.391693+00:00](#)

Camio

VIOLATION - The person in the scene...

VIOLATION - The person in the scene is standing near the can elevator and reaching up to put objects onto the can elevator. Recommended message: Please stop reaching up to put objects onto the can elevator. This is a safety hazard. A person wearing a blue shirt and a white hairnet is reaching up to put objects onto the can elevator. [View it now](#)

Can Elevator 2024-07-12T16:03:16.391693+00:00

The screenshot shows a Discord message from the 'Camio Bot App' in the 'security' channel, timestamped '9:03 AM'. The message content is:

VIOLATION - The person in the scene... at [2024-07-12T16:03:16.391693+00:00](#)

****VIOLATION - The person in the scene is standing near the can elevator and reaching up to put objects onto the can elevator.** Recommended message: **Please stop reaching up to put objects onto the can elevator. This is a safety hazard.** A person wearing a blue shirt and a white hairnet is reaching up to put objects onto the can elevator. [View it now](#)**

Can Elevator 2024-07-12T16:03:16.391693+00:00

FIELD OF VIEW CHANGE DETECTION



POLICY: The field of view of a location must remain the same. Any camera movement more than 5 degrees in any direction is a violation of policy.

ASSESSMENT: The camera in the second image appears to be moved slightly to the right compared to the first image. This is a violation of policy as it is more than 5 degrees of movement.

BLURRY VIEW DETECTION

Relevant Text	Assessment	Recommended Message
The image from each camera must not be blurry.	The image is very blurry. This is a violation of policy.	The image from the Nashville Warehouse camera is very blurry. Please ensure the camera lens is clean and that it is focused correctly.
When two images from the same camera name are compared, they must maintain the same view of the same scene; any camera movement more than 5 degrees in any direction is a violation of policy.	There is not a second image to compare this image with. There is no deviation from policy.	
No person should ever be lying on the ground.	No people are visible in the image.	
No weapons are allowed. Firearms, knives, and any other dangerous weapons are prohibited.	No weapons are visible in the image.	
Any smoke or fire is an urgent problem that needs immediate attention of the security team.	There is no smoke or fire visible in the image.	



1. The image is very blurry. This...

**1. The image is very blurry. This is a violation of policy.
2. There is not a second image to compare this image with. There is no deviation from policy. 3. No people are visible in the image. 4. No weapons are visible in the image. 5. There is no smoke or fire visible in the image.**
Recommended message: *The image from the Nashville Warehouse camera is very blurry. Please ensure the camera lens is clean and that it is focused correctly.*
The image shows an interior of a warehouse. There are multiple shelves that reach the ceiling, containing various boxes and packages. There are multiple forklift trucks on the floor, all in various states of operation. The forklifts appear to be yellow and orange with black lift arms. There are several stacked tires visible in the left foreground. The image is very blurry, making it difficult to make out details.

OBSTRUCTED VIEW DETECTION

Relevant Text

All camera views should be free from obstructions like spider webs, branches, or other objects that impair the view of the scene.

No people should be lying on the ground.

No fires are allowed.

Assessment

The camera view is obstructed by spider webs. Please remove the spider webs to allow the camera to get a clear view of the scene.

There are no people in the scene.

There is no fire in the scene.

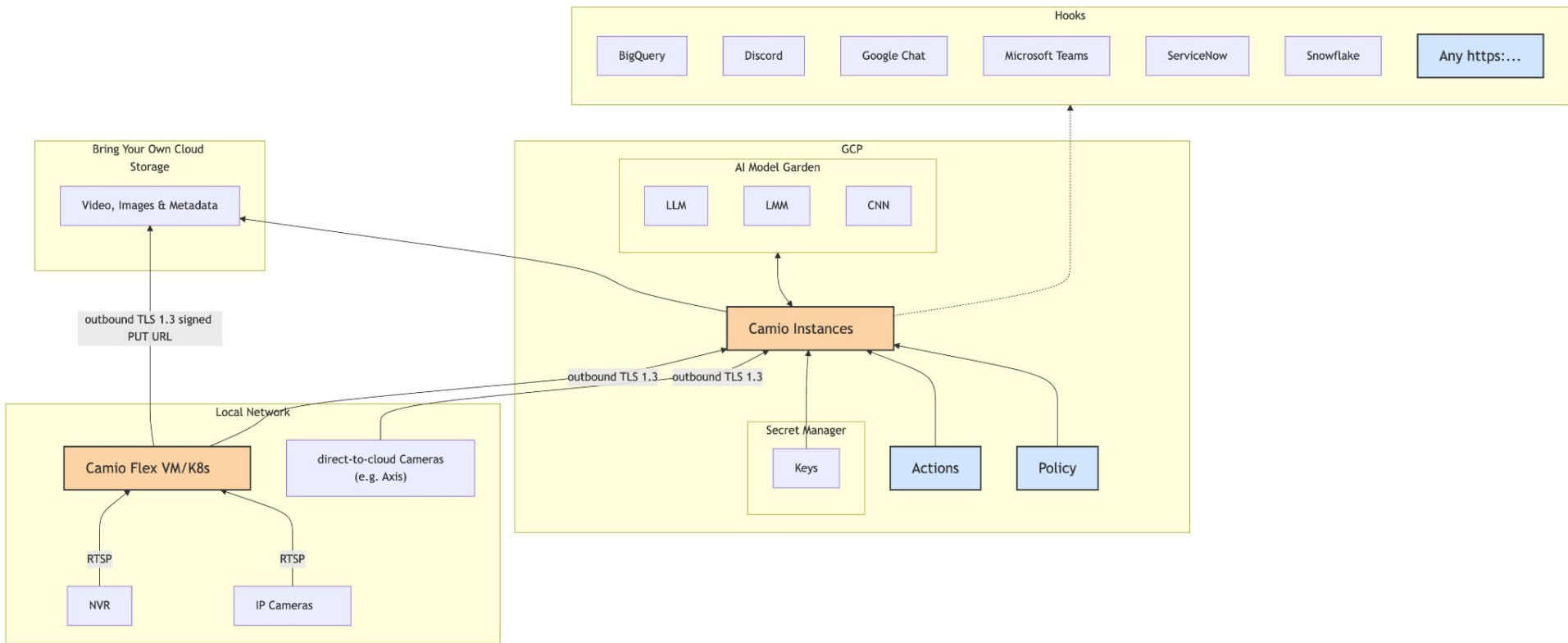
Recommended Message

There is a spider web in the upper right corner of the image. Please remove the spider webs to allow the camera to get a clear view of the scene.



1. The camera view is obstructed by...

****1.** The camera view is obstructed by spider webs. Please remove the spider webs to allow the camera to get a clear view of the scene. **2.** There are no people in the scene. **3.** There is no fire in the scene. ******
***Recommended message*:** *There is a spider web in the upper right corner of the image. Please remove the spider webs to allow the camera to get a clear view of the scene. * The image is taken from a night vision camera. There is a spider web in the upper right corner of the image. There is a spider in the center of the web. It appears to be in the center of the web because there is a bright light in the center. The web is obstructing the view. This scene is potentially dangerous, especially since the web isn't visible during the day. The web needs to be removed to allow the camera to get a clear view of the scene.



camio

1. Detects and acts on deviations from policies in natural language
2. Works with existing cameras and virtual environments
3. Better-than-human monitoring via always-SOTA AI and infrastructure