

## Query

What did I put in  
the black bin in  
the kitchen?



**VLM**

(8 frames)

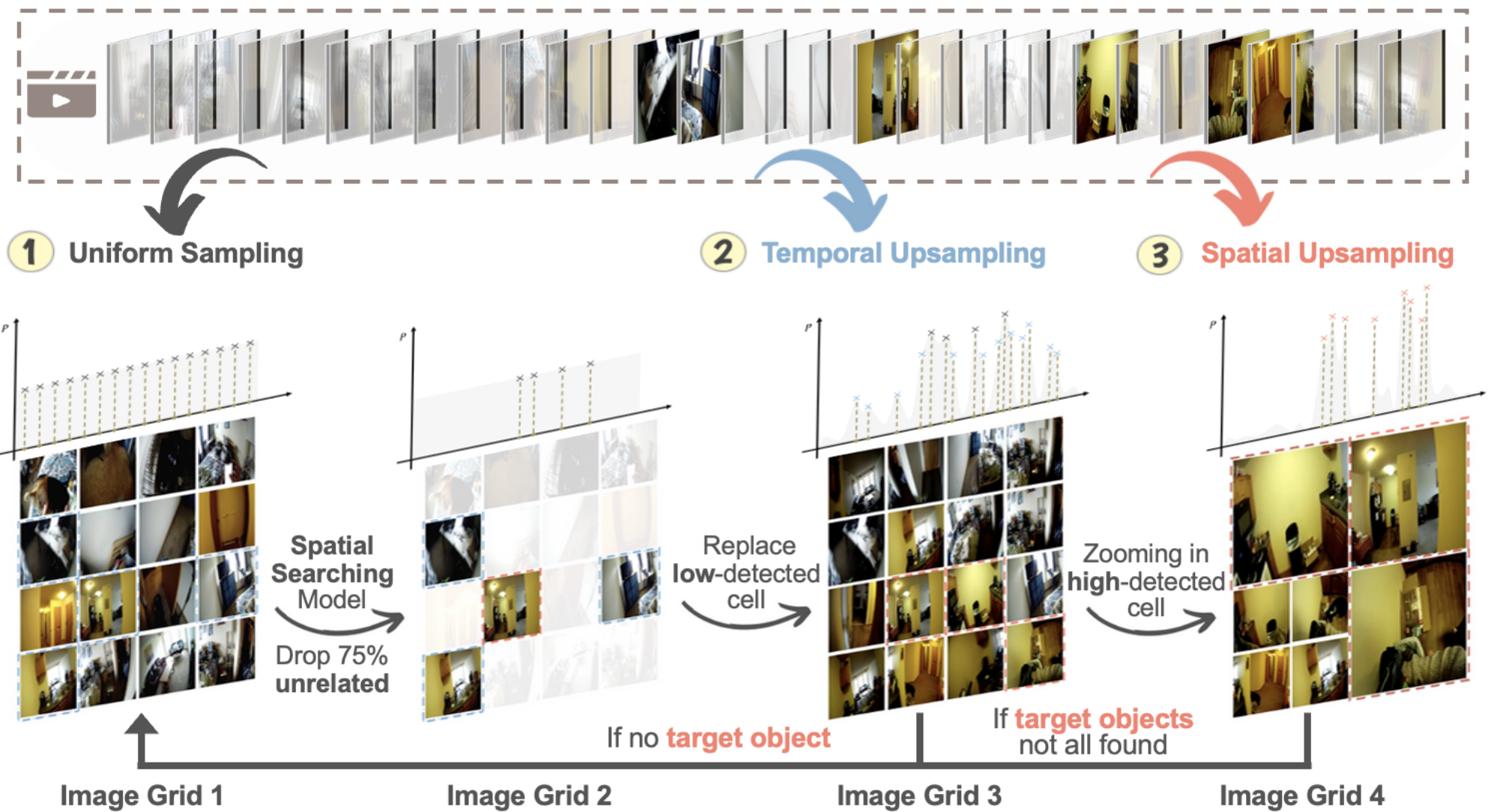
## Target Object

The black bin in the  
kitchen

## Cue Object

Refrigerator, Toaster,  
Microwave, Tables,  
Stovetop, Stools,  
Floors, ...

## Grounding



## Iterative Temporal Searching

## Answer

“vacuum dust”

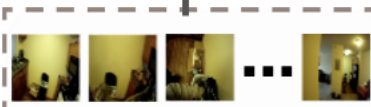


**VLM**

(K frames)

## Query

If confirmed  
**target  
objects**



Selected Frames

## Downstream QA