

```
formula framesize_disturbance = ... // from equation eq:model-non-deter  
formula update_q = ... // update the quality
```

```
module NondeterministicCamera
```

```
  [bw_allocated] (cam = cam_init) -> 1 : (cam' = cam_calc_fr);  
  [- or last_cam_sent] (cam = cam_calc_fr) ->  
    1 : (cam' = cam_wait) & (q' = update_q) &  
      (s' = framesize_disturbance); // with disturbance  
  [bw_allocated] (cam = cam_wait) -> 1 : (cam' = cam_calc_fr);
```

```
endmodule
```

```
module Environment
```

```
  // generate a new disturbance as a nondeterministic choice  
  // between a set of values, and move to wait state  
  [bw_allocated] (env = env_wait) -> 1 : (env' = env_calc_dist) &  
    (dist' = new_dist1);  
  [bw_allocated] (env = env_wait) -> 1 : (env' = env_calc_dist) &  
    (dist' = new_dist2);  
  [bw_allocated] (env = env_wait) -> 1 : (env' = env_calc_dist) &  
    (dist' = new_dist3);  
  [] (env = env_calc_dist) -> 1 : (env' = env_wait);
```

```
endmodule
```