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formula framesize = ... // compute frame size from equation
    eq:model-prob
formula framesize_disturbance = ... // with disturbance
formula update_q = ... // update the quality

module ProbabilisticCamera
    // init: synchronization with manager on bandwidth allocation
    [bw_allocated] (cam = cam_init) -> 1 : (cam' = cam_calc_fr);
    // entering computation of frame size, probabilistic
    [- or last_cam_sent] (cam = cam_calc_fr) ->
        0.7 : (cam' = cam_wait) & (q' = update_q) &
            (s' = framesize) +
        0.3 : (cam' = cam_wait) & (q' = update_q) &
            (s' = framesize_disturbance);
    // return to computation after all the cameras have sent
    [bw_allocated] (cam = cam_wait) -> 1 : (cam' = cam_calc_fr);
endmodule
```