

# Acoustic Event

Door Bell

Crying

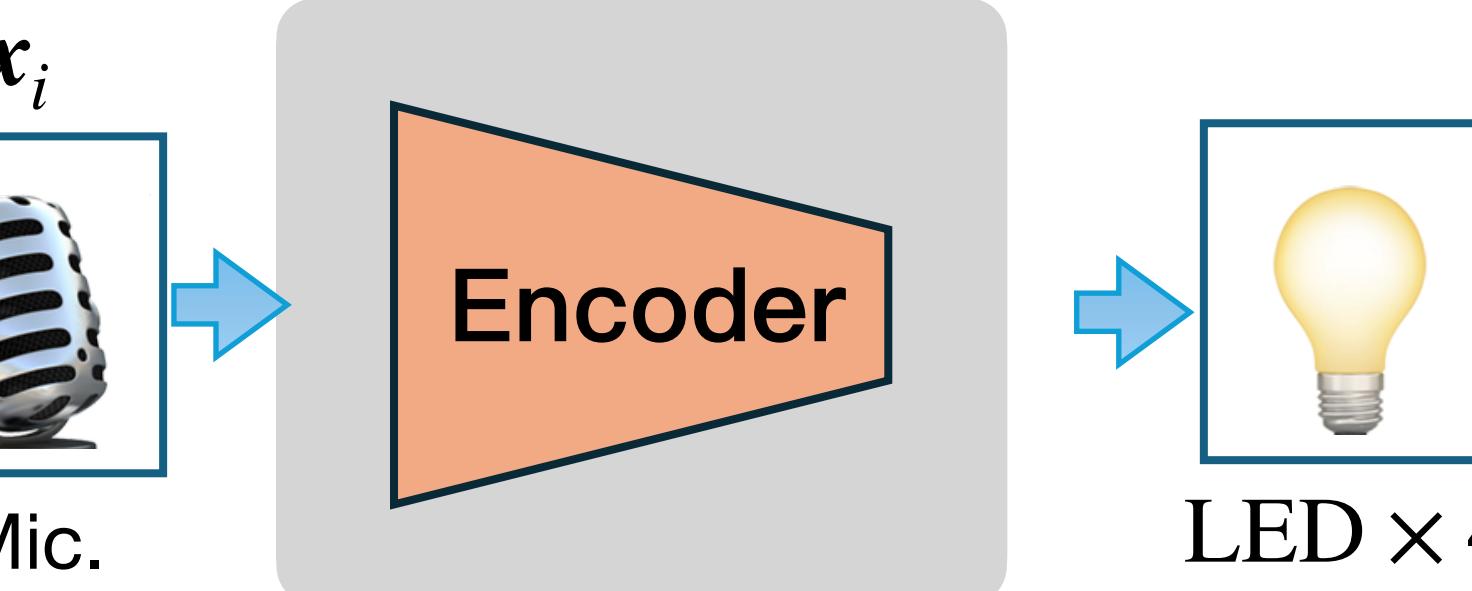
Cleaning

Talking

...

Blinky  $\times N$

$$z = \text{Embed}(x_i)$$



$$\text{LED } \times 4$$

$$z' = \text{Transmit}(z_1, \dots, z_i)$$

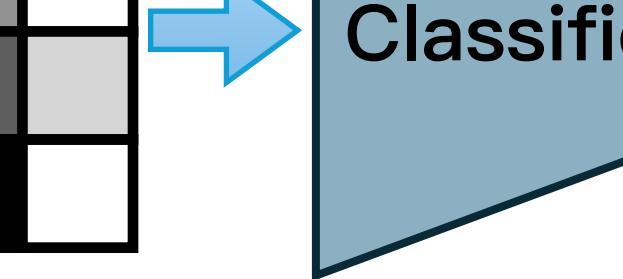


Distortion

Central Camera

Temporal LED  
Intensity Variation

Environment Light noise



One-hot Prediction

$\langle \hat{y} \rangle$

Backpropagation