Discriminator

$\mathcal{L}_{\mathrm{GAN}}, \mathcal{L}_{\mathrm{Feats}}$

Encoder

Quantization

Decoder

x

z_t $\mathbf{Q}(.)$ $\hat{z}_t$

$\hat{x}$

$\mathcal{L}_{\mathrm{VQ}}$

$\mathcal{L}_{\mathrm{Recon}}$