First stage Second stage ••••• ,..... dividing into patches upsampling downsampling concatenation \overline{x}_0 I', z'_{up} ($C_{\text{image}} + C_{\text{label}}, 96, 96, 96)$
$$\begin{split} \boldsymbol{I}, \boldsymbol{z}_{up} \\ (C_{\text{image}} + C_{\text{label}}, D, W, H) \end{split}$$
 I_{down} (low res. I) (C_{image} , D/2, W/2, H/2) $(C_{\text{image}}, D, W, H)$ (C_{label}, D, W, H) using sliding window Denoising Denoising • • • • • • Module Module $\mathbf{z}_T \sim \mathcal{N}(\mathbf{0}, \mathbf{I})$ \overline{z}_0 $\boldsymbol{x}_T' \sim \mathcal{N}(\mathbf{0}, \mathbf{I})$ x'_{t-1} \overline{x}'_0 \boldsymbol{z}_{t-1} $(C_{\text{label}}, D/2, W/2, H/2)$ $(C_{label}, 96, 96, 96)$ repeating repeating