$D \times H \times W$

z_1

z_2

z_L

ψ_1

η_1

$4C \times H/2 \times W/2$

iDWT

$C \times H \times W$

ψ_2

η_2

$8C \times H/4 \times W/4$

$2^L C \times H/2^L \times W/2^L$

Non-Invertible

Invertible

→ **Non-Inv. conv.** ↓ **Non-Inv. downsam.** → **Invertible conv.** (ψ) ↑ **Invertible Upsam.** (η)

⊢ **Splitting operator** ⊢ **Concat. operator**

$$dim(Z_l) = 2^l C \times \frac{H}{2^l} \times \frac{W}{2^l}$$