

Layer (type)	Output Shape	Param #	Connected to
input_2 (InputLayer)	[(None, 257, 62, 3)]	0	
block_1_conv (Conv2D)	(None, 257, 62, 64)	1792	input_2[0][0]
block_1_lrelu (LeakyReLU)	(None, 257, 62, 64)	0	block_1_conv[0][0]
block_1_drop (Dropout)	(None, 257, 62, 64)	0	block_1_lrelu[0][0]
block_1_conv_bn (BatchNormaliza	(None, 257, 62, 64)	256	block_1_drop[0][0]
block_2_conv (Conv2D)	(None, 257, 62, 64)	36928	block_1_conv_bn[0][0]
block_2_lrelu (LeakyReLU)	(None, 257, 62, 64)	0	block_2_conv[0][0]
block_2_drop (Dropout)	(None, 257, 62, 64)	0	block_2_lrelu[0][0]
block_2_conv_bn (BatchNormaliza	(None, 257, 62, 64)	256	block_2_drop[0][0]
block_3_conv (Conv2D)	(None, 257, 62, 128)	204928	block_2_conv_bn[0][0]
block_3_lrelu (LeakyReLU)	(None, 257, 62, 128)	0	block_3_conv[0][0]
block_3_drop (Dropout)	(None, 257, 62, 128)	0	block_3_lrelu[0][0]
block_3_conv_bn (BatchNormaliza	(None, 257, 62, 128)	512	block_3_drop[0][0]
block_4_conv (Conv2D)	(None, 257, 62, 128)	147584	block_3_conv_bn[0][0]
block_4_lrelu (LeakyReLU)	(None, 257, 62, 128)	0	block_4_conv[0][0]
block_4_drop (Dropout)	(None, 257, 62, 128)	0	block_4_lrelu[0][0]
block_4_conv_bn (BatchNormaliza	(None, 257, 62, 128)	512	block_4_drop[0][0]
block_5_conv (Conv2D)	(None, 257, 62, 256)	819456	block_4_conv_bn[0][0]
block_5_lrelu (LeakyReLU)	(None, 257, 62, 256)	0	block_5_conv[0][0]
block_5_drop (Dropout)	(None, 257, 62, 256)	0	block_5_lrelu[0][0]
block_5_conv_bn (BatchNormaliza	(None, 257, 62, 256)	1024	block_5_drop[0][0]
block_6_conv (Conv2D)	(None, 257, 62, 512)	1180160	block_5_conv_bn[0][0]
block_6_lrelu (LeakyReLU)	(None, 257, 62, 512)	0	block_6_conv[0][0]
block_6_drop (Dropout)	(None, 257, 62, 512)	0	block_6_lrelu[0][0]
block_6_conv_bn (BatchNormaliza	(None, 257, 62, 512)	2048	block_6_drop[0][0]
block_7_de-conv (Conv2DTranspos	(None, 257, 62, 512)	2359808	block_6_conv_bn[0][0]
block_7_lrelu (LeakyReLU)	(None, 257, 62, 512)	0	block_7_de-conv[0][0]
block_7_drop (Dropout)	(None, 257, 62, 512)	0	block_7_lrelu[0][0]
block_7_conv_bn (BatchNormaliza	(None, 257, 62, 512)	2048	block_7_drop[0][0]
skip1 (Concatenate)	(None, 257, 62, 768)	0	block_7_conv_bn[0][0] block_5_conv_bn[0][0]
block_8_conv (Conv2D)	(None, 257, 62, 256)	1769728	skip1[0][0]
block_8_lrelu (LeakyReLU)	(None, 257, 62, 256)	0	block_8_conv[0][0]

block_8_drop (Dropout)	(None, 257, 62, 256)	0	block_8_lrelu[0][0]
block_8_conv_bn (BatchNormaliza	(None, 257, 62, 256)	1024	block_8_drop[0][0]
block_9_de-conv (Conv2DTranspos	(None, 257, 62, 128)	295040	block_8_conv_bn[0][0]
block_9_lrelu (LeakyReLU)	(None, 257, 62, 128)	0	block_9_de-conv[0][0]
block_9_drop (Dropout)	(None, 257, 62, 128)	0	block_9_lrelu[0][0]
block_9_conv_bn (BatchNormaliza	(None, 257, 62, 128)	512	block_9_drop[0][0]
skip2 (Concatenate)	(None, 257, 62, 256)	0	block_9_conv_bn[0][0] block_3_conv_bn[0][0]
block_10_conv (Conv2D)	(None, 257, 62, 128)	819328	skip2[0][0]
block_10_lrelu (LeakyReLU)	(None, 257, 62, 128)	0	block_10_conv[0][0]
block_10_drop (Dropout)	(None, 257, 62, 128)	0	block_10_lrelu[0][0]
block_10_conv_bn (BatchNormaliz	(None, 257, 62, 128)	512	block_10_drop[0][0]
block_11_de-conv (Conv2DTranspo	(None, 257, 62, 64)	73792	block_10_conv_bn[0][0]
block_11_lrelu (LeakyReLU)	(None, 257, 62, 64)	0	block_11_de-conv[0][0]
block_11_drop (Dropout)	(None, 257, 62, 64)	0	block_11_lrelu[0][0]
block_11_conv_bn (BatchNormaliz	(None, 257, 62, 64)	256	block_11_drop[0][0]
skip3 (Concatenate)	(None, 257, 62, 128)	0	block_11_conv_bn[0][0] block_2_conv_bn[0][0]
block_12_conv (Conv2D)	(None, 257, 62, 64)	204864	skip3[0][0]
block_12_lrelu (LeakyReLU)	(None, 257, 62, 64)	0	block_12_conv[0][0]
block_12_drop (Dropout)	(None, 257, 62, 64)	0	block_12_lrelu[0][0]
block_12_conv_bn (BatchNormaliz	(None, 257, 62, 64)	256	block_12_drop[0][0]
block_13_de-conv (Conv2DTranspo	(None, 257, 62, 64)	36928	block_12_conv_bn[0][0]
block_13_lrelu (LeakyReLU)	(None, 257, 62, 64)	0	block_13_de-conv[0][0]
block_13_drop (Dropout)	(None, 257, 62, 64)	0	block_13_lrelu[0][0]
block_13_conv_bn (BatchNormaliz	(None, 257, 62, 64)	256	block_13_drop[0][0]
concatenate (Concatenate)	(None, 257, 62, 128)	0	block_13_conv_bn[0][0] block_1_conv_bn[0][0]
final_conv (Conv2D)	(None, 257, 62, 3)	3459	concatenate[0][0]

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Total params: 7,963,267

Trainable params: 7,958,531

Non-trainable params: 4,736