	VGG16			VGG19			CNN		
	Hidden layers	Units	Parameter	Hidden layers	Units	Parameter	Hidden layers	Units	Parameter
Generator	Conv_block	64×2	16,295,623	Conv_block	64×2	21,605,319	Conv	256	16,451,847
	Max_pooling			Max_pooling			BatchNorm		
	Conv_block	128×2		Conv_block	128×2		Conv	512	
	Max_pooling			Max_pooling			BatchNorm		
	Conv_block	256×3		Conv_block	256×4		Conv	1024	
	Max_pooling			Max_pooling			BatchNorm		
	Conv_block	512×3		Conv_block	512×4		Dense	1024	
	Max_pooling			Max_pooling					
	Conv_block	512×3		Conv_block	512×4				
	Max_pooling			Max_pooling					
	Dense	1024		Dense	1024				
	Dense	1024		Dense	1024				
Reconstructor	Dense	1024	10,184,000	Dense	1024	13,281,472	Dense	1024	18,048,256
	Dense	1024		Dense	1024		BatchNorm		
	Dense	1024		Dense	1024		Reshape		
	Reshape			Reshape			Conv	1024	
	Conv_block-T	512×3		Conv_block-T	512×4		BatchNorm		
	Up_sampling			Up_sampling			Conv	512	
	Conv_block-T	512×3		Conv_block-T	512×4		BatchNorm		
	Up_sampling			Up_sampling			Conv	256	
	Conv_block-T	256×3		Conv_block-T	256×4				
	Up_sampling			Up_sampling					
	Conv_block-T	128×2		Conv_block-T	128×2				
	Up_sampling			Up_sampling					
	Conv_block-T	64×2		Conv_block-T	64×2				
Classifier	Dense	2048	12,636,168	Dense	2048	12,636,168	Dense	2048	12,636,168
	BatchNorm			BatchNorm			BatchNorm		
	Dropout			Dropout			Dropout		
	Dense	2048		Dense	2048		Dense	2048	
	BatchNorm			BatchNorm			BatchNorm		
	Dropout			Dropout			Dropout		
	Dense	2048		Dense	2048		Dense	2048	
	BatchNorm			BatchNorm			BatchNorm		
	Dropout			Dropout			Dropout		
	Dense	2048		Dense	2048		Dense	2048	
	BatchNorm			BatchNorm			BatchNorm		
	Dropout			Dropout			Dropout		
Discriminator	Conv	128	5,084,737	Conv	128	5,084,737	Conv	128	5,084,737
	Dropout			Dropout			Dropout		
	Conv	256		Conv	256		Conv	256	
	Dropout			Dropout			Dropout		
	Flatten			Flatten			Flatten		
	Dense	1024		Dense	1024		Dense	1024	
	Dense	1024		Dense	1024		Dense	1024	

Shared parameters: optimizer Adam, learning rate 0.0001, 7 dimensions
Hardware: GPU Testla T4 16Gb, CPU Xeon Processors @2.3Ghz
Software: Tensorflow 2.0 beta. The number of trainable parameters are reported by model.summary() from Keras library.