Supplementary Table S1 Details in encoder and decoder layer

	Input size	Output size	Number of input channels	Number of Output channels	Upsampling	Downsampling	Kernel size
DRB	320,320	320,320	7	71	-	Maxpool	3x3
The first RAB (Encoder)	160,160	160,160	71	71	-	Maxpool	3x3
The second RAB (Encoder)	80,80	80,80	71	71	-	Maxpool	3x3
The third RAB (Encoder)	40,40	40,40	71	71	-	Maxpool	3x3
The fourth RAB(bottleneck)	20,20	20,20	71	71	-	-	3x3
The fifth RAB (Decoder)	40,40	40,40	71	71	MaxUnpool	-	3x3
The sixth RAB (Decoder)	80,80	80,80	71	71	MaxUnpool	-	3x3
The seventh RAB (Decoder)	160,160	160,160	71	71	MaxUnpool	-	3x3
The eighth RAB (Decoder)	320,320	320,320	71	71	MaxUnpool	-	3x3

Note. The GFLOPS of the entire network is 88.38 and the number parameters is 2.01M.