

Layer (type)	Output Shape	Param #
Conv2d-1	[-1, 64, 640, 480]	1,792
BatchNorm2d-2	[-1, 64, 640, 480]	128
ReLU-3	[-1, 64, 640, 480]	0
Conv2d-4	[-1, 64, 640, 480]	36,928
BatchNorm2d-5	[-1, 64, 640, 480]	128
ReLU-6	[-1, 64, 640, 480]	0
DoubleConv-7	[-1, 64, 640, 480]	0
MaxPool2d-8	[-1, 64, 320, 240]	0
Conv2d-9	[-1, 128, 320, 240]	73,856
BatchNorm2d-10	[-1, 128, 320, 240]	256
ReLU-11	[-1, 128, 320, 240]	0
Conv2d-12	[-1, 128, 320, 240]	147,584
BatchNorm2d-13	[-1, 128, 320, 240]	256
ReLU-14	[-1, 128, 320, 240]	0
DoubleConv-15	[-1, 128, 320, 240]	0
DownSizing-16	[-1, 128, 320, 240]	0
MaxPool2d-17	[-1, 128, 160, 120]	0
Conv2d-18	[-1, 256, 160, 120]	295,168
BatchNorm2d-19	[-1, 256, 160, 120]	512
ReLU-20	[-1, 256, 160, 120]	0
Conv2d-21	[-1, 256, 160, 120]	590,080
BatchNorm2d-22	[-1, 256, 160, 120]	512
ReLU-23	[-1, 256, 160, 120]	0
DoubleConv-24	[-1, 256, 160, 120]	0
DownSizing-25	[-1, 256, 160, 120]	0
MaxPool2d-26	[-1, 256, 80, 60]	0
Conv2d-27	[-1, 512, 80, 60]	1,180,160
BatchNorm2d-28	[-1, 512, 80, 60]	1,024
ReLU-29	[-1, 512, 80, 60]	0
Conv2d-30	[-1, 512, 80, 60]	2,359,808
BatchNorm2d-31	[-1, 512, 80, 60]	1,024
ReLU-32	[-1, 512, 80, 60]	0
DoubleConv-33	[-1, 512, 80, 60]	0
DownSizing-34	[-1, 512, 80, 60]	0
MaxPool2d-35	[-1, 512, 40, 30]	0
Conv2d-36	[-1, 512, 40, 30]	2,359,808
BatchNorm2d-37	[-1, 512, 40, 30]	1,024
ReLU-38	[-1, 512, 40, 30]	0
Conv2d-39	[-1, 512, 40, 30]	2,359,808
BatchNorm2d-40	[-1, 512, 40, 30]	1,024
ReLU-41	[-1, 512, 40, 30]	0
DoubleConv-42	[-1, 512, 40, 30]	0
DownSizing-43	[-1, 512, 40, 30]	0
Upsample-44	[-1, 512, 80, 60]	0
Conv2d-45	[-1, 512, 80, 60]	4,719,104
BatchNorm2d-46	[-1, 512, 80, 60]	1,024
ReLU-47	[-1, 512, 80, 60]	0

Conv2d-48	[-1, 256, 80, 60]	1,179,904
BatchNorm2d-49	[-1, 256, 80, 60]	512
ReLU-50	[-1, 256, 80, 60]	0
DoubleConv-51	[-1, 256, 80, 60]	0
UpSizing-52	[-1, 256, 80, 60]	0
Upsample-53	[-1, 256, 160, 120]	0
Conv2d-54	[-1, 256, 160, 120]	1,179,904
BatchNorm2d-55	[-1, 256, 160, 120]	512
ReLU-56	[-1, 256, 160, 120]	0
Conv2d-57	[-1, 128, 160, 120]	295,040
BatchNorm2d-58	[-1, 128, 160, 120]	256
ReLU-59	[-1, 128, 160, 120]	0
DoubleConv-60	[-1, 128, 160, 120]	0
UpSizing-61	[-1, 128, 160, 120]	0
Upsample-62	[-1, 128, 320, 240]	0
Conv2d-63	[-1, 128, 320, 240]	295,040
BatchNorm2d-64	[-1, 128, 320, 240]	256
ReLU-65	[-1, 128, 320, 240]	0
Conv2d-66	[-1, 64, 320, 240]	73,792
BatchNorm2d-67	[-1, 64, 320, 240]	128
ReLU-68	[-1, 64, 320, 240]	0
DoubleConv-69	[-1, 64, 320, 240]	0
UpSizing-70	[-1, 64, 320, 240]	0
Upsample-71	[-1, 64, 640, 480]	0
Conv2d-72	[-1, 64, 640, 480]	73,792
BatchNorm2d-73	[-1, 64, 640, 480]	128
ReLU-74	[-1, 64, 640, 480]	0
Conv2d-75	[-1, 64, 640, 480]	36,928
BatchNorm2d-76	[-1, 64, 640, 480]	128
ReLU-77	[-1, 64, 640, 480]	0
DoubleConv-78	[-1, 64, 640, 480]	0
UpSizing-79	[-1, 64, 640, 480]	0
Conv2d-80	[-1, 9, 640, 480]	585
OutConv-81	[-1, 9, 640, 480]	0
Upsample-82	[-1, 512, 80, 60]	0
Conv2d-83	[-1, 512, 80, 60]	4,719,104
BatchNorm2d-84	[-1, 512, 80, 60]	1,024
ReLU-85	[-1, 512, 80, 60]	0
Conv2d-86	[-1, 256, 80, 60]	1,179,904
BatchNorm2d-87	[-1, 256, 80, 60]	512
ReLU-88	[-1, 256, 80, 60]	0
DoubleConv-89	[-1, 256, 80, 60]	0
UpSizing-90	[-1, 256, 80, 60]	0
Upsample-91	[-1, 256, 160, 120]	0
Conv2d-92	[-1, 256, 160, 120]	1,179,904
BatchNorm2d-93	[-1, 256, 160, 120]	512
ReLU-94	[-1, 256, 160, 120]	0
Conv2d-95	[-1, 256, 160, 120]	590,080
BatchNorm2d-96	[-1, 256, 160, 120]	512
ReLU-97	[-1, 256, 160, 120]	0

DoubleConv-98	[-1, 256, 160, 120]	0
UpSizing-99	[-1, 256, 160, 120]	0
Conv2d-100	[-1, 256, 160, 120]	65,792
OutConv-101	[-1, 256, 160, 120]	0
Conv2d-102	[-1, 256, 160, 120]	65,792
OutConv-103	[-1, 256, 160, 120]	0
Conv2d-104	[-1, 256, 160, 120]	65,792
OutConv-105	[-1, 256, 160, 120]	0
Upsample-106	[-1, 256, 320, 240]	0
Upsample-107	[-1, 256, 640, 480]	0
Conv2d-108	[-1, 256, 640, 480]	65,792
OutConv-109	[-1, 256, 640, 480]	0
Upsample-110	[-1, 512, 80, 60]	0
Conv2d-111	[-1, 512, 80, 60]	4,719,104
BatchNorm2d-112	[-1, 512, 80, 60]	1,024
ReLU-113	[-1, 512, 80, 60]	0
Conv2d-114	[-1, 256, 80, 60]	1,179,904
BatchNorm2d-115	[-1, 256, 80, 60]	512
ReLU-116	[-1, 256, 80, 60]	0
DoubleConv-117	[-1, 256, 80, 60]	0
UpSizing-118	[-1, 256, 80, 60]	0
Upsample-119	[-1, 256, 160, 120]	0
Conv2d-120	[-1, 256, 160, 120]	1,179,904
BatchNorm2d-121	[-1, 256, 160, 120]	512
ReLU-122	[-1, 256, 160, 120]	0
Conv2d-123	[-1, 256, 160, 120]	590,080
BatchNorm2d-124	[-1, 256, 160, 120]	512
ReLU-125	[-1, 256, 160, 120]	0
DoubleConv-126	[-1, 256, 160, 120]	0
UpSizing-127	[-1, 256, 160, 120]	0
Conv2d-128	[-1, 256, 160, 120]	65,792
OutConv-129	[-1, 256, 160, 120]	0
Conv2d-130	[-1, 256, 160, 120]	65,792
OutConv-131	[-1, 256, 160, 120]	0
Conv2d-132	[-1, 256, 160, 120]	65,792
OutConv-133	[-1, 256, 160, 120]	0
Upsample-134	[-1, 256, 320, 240]	0
Upsample-135	[-1, 256, 640, 480]	0
Conv2d-136	[-1, 256, 640, 480]	65,792
OutConv-137	[-1, 256, 640, 480]	0
Conv2d-138	[-1, 9, 640, 480]	585
OutConv-139	[-1, 9, 640, 480]	0
Conv2d-140	[-1, 256, 640, 480]	65,792
OutConv-141	[-1, 256, 640, 480]	0
Conv2d-142	[-1, 256, 640, 480]	65,792
OutConv-143	[-1, 256, 640, 480]	0

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Total params: 33,269,522

Trainable params: 33,269,522

Non-trainable params: 0

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Input size (MB): 3.52  
Forward/backward pass size (MB): 12164.06  
Params size (MB): 126.91  
Estimated Total Size (MB): 12294.49  
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