| AlexNet | VIPLFaceNetFull | VIPLFaceNet |
| --- | --- | --- |
| Conv1: 96x11x11, S:4, Pad:0 | Conv1: 96x9x9, S:4, Pad:0 | Conv1: 48x9x9, S:4, Pad:0 |
| LRN | – | – |
| Pool1: 3x3,S:2 | Pool1: 3x3,S:2 | Pool1: 3x3,S:2 |
| Conv2: 256x5x5, G:2, S:1, Pad:2 | Conv2: 192x3x3,S:1, Pad:1 | Conv2: 128x3x3,S:1, Pad:1 |
| LRN | – | – |
| – | Conv3: 192x3x3,S:1, Pad:1 | Conv3: 128x3x3,S:1, Pad:1 |
| Pool2: 3x3,S:2 | Pool2: 3x3,S:2 | Pool2: 3x3,S:2 |
| Conv3: 384x3x3, S:1, Pad:1 | Conv4: 384x3x3,S:1, Pad:1 | Conv4: 256x3x3,S:1, Pad:1 |
| Conv4: 384x3x3, G:2, S:1, Pad:1 | Conv5: 256x3x3,S:1, Pad:1 | Conv5: 192x3x3,S:1, Pad:1 |
| – | Conv6: 256x3x3,S:1, Pad:1 | Conv6: 192x3x3,S:1, Pad:1 |
| Conv5: 256x3x3, G:2, S:1, Pad:1 | Conv7: 192x3x3,S:1, Pad:1 | Conv7: 128x3x3,S:1, Pad:1 |
| Pool3: 3x3,S:2 | Pool3: 3x3,S:2 | Pool3: 3x3,S:2 |
| FC1, 4,096 | FC1, 4,096 | FC1, 4,096 |
| Dropout1: dropout_ratio:0.5 | Dropout1: dropout_ratio:0.5 | Dropout1: dropout_ratio:0.5 |
| FC2, 4,096 | FC2, 2,048 | FC2, 2,048 |
| Dropout2: dropout_ratio:0.5 | Dropout2: dropout_ratio:0.5 | Dropout2: dropout_ratio:0.5 |
| FC3, 10,575 | FC3, 10,575 | FC3, 10,575 |