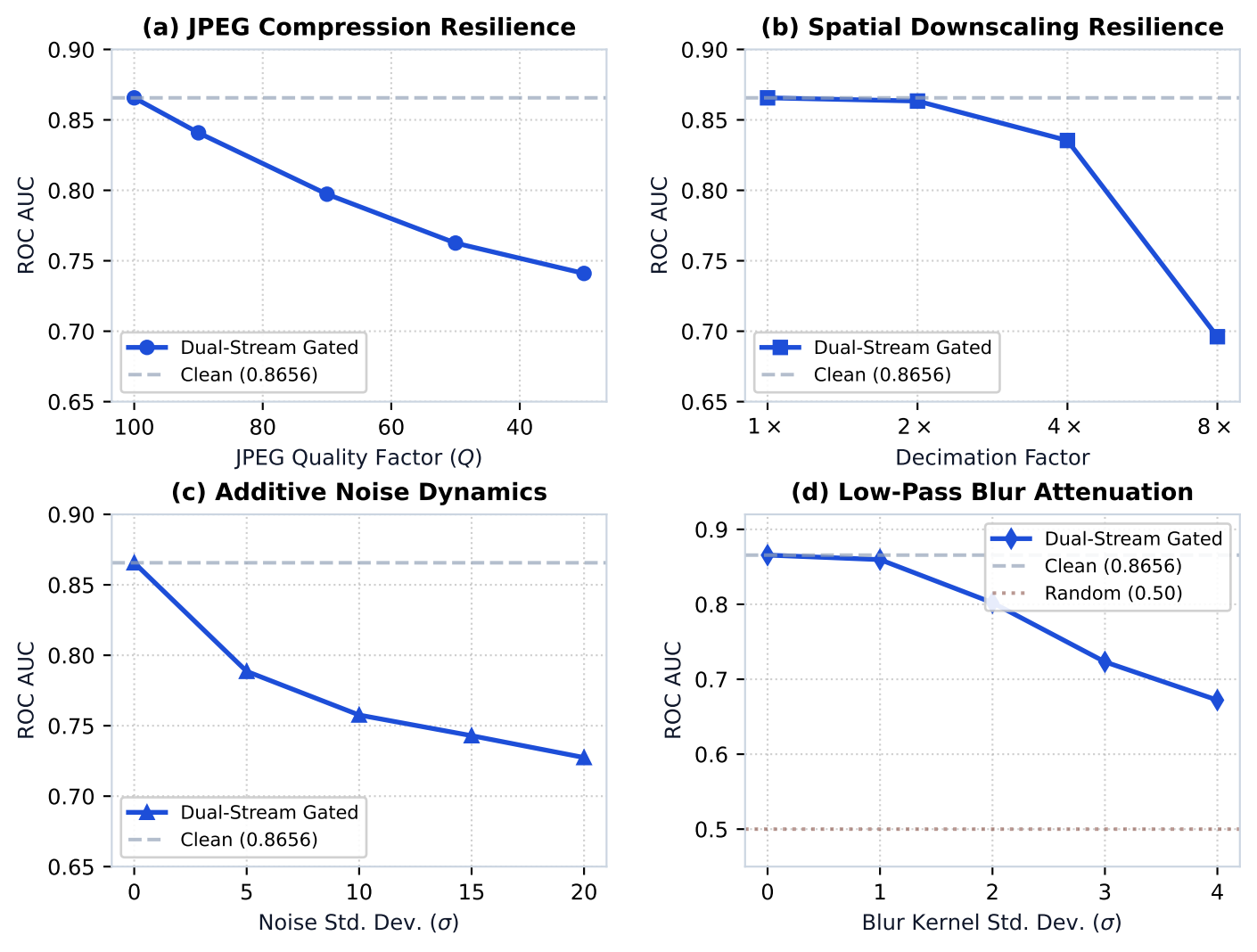
(a) JPEG Compression Resilience
ROC AUC
JPEG Quality Factor (Q)
Dual-Stream Gated
Clean (0.8656)
(b) Spatial Downscaling Resilience
ROC AUC
Decimation Factor
1×
2×
4×
8×
Dual-Stream Gated
Clean (0.8656)
(c) Additive Noise Dynamics
ROC AUC
Noise Std. Dev. (σ)
Dual-Stream Gated
Clean (0.8656)
(d) Low-Pass Blur Attenuation
ROC AUC
Blur Kernel Std. Dev. (σ)
Dual-Stream Gated
Clean (0.8656)
Random (0.50)