Legend: FE decoding/RFE encoding/NoisFre transform ▪ helper data/mask integrity check

Left chart — CPU Clock Cycles (x1,000):

FE: 608,336 (55,088 / 553,278) — BCH(127,22,23), $P_{\text{key}}^{\text{fail}} = 4.3 \times 10^{-6}$

RFE: 221,453 (55,088 / 166,365)

NoisFre (ours): 96,666 (45,622 / 51,044) — D-Norm(32,16,16), $P_{\text{key}}^{\text{fail}} = 4.16 \times 10^{-6}$

By 84%
By 56%

Right chart — RAM Usage (Byte):

FE: 14,836 (112 / 14,724) — BCH(127,22,23), $P_{\text{key}}^{\text{fail}} = 4.3 \times 10^{-6}$

RFE: 369 (112 / 257)

NoisFre (ours): 174 (112 / 62) — D-Norm(32,16,16), $P_{\text{key}}^{\text{fail}} = 4.16 \times 10^{-6}$

By 99%
By 56%