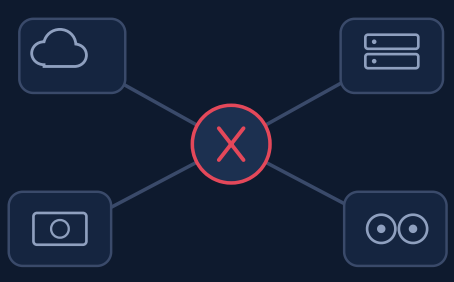
STORAGE MEDIUM COMPARISON

EVERY NETWORKED STORAGE MEDIUM CAN BE REACHED. BLU-RAY NEVER IS.

Cloud platforms, local servers, external drives, and tape all share one weakness: a live connection or a path back to one. All Pro Solutions' Olympus archiving system removes that path entirely — burning data to immutable, air-gapped Blu-Ray discs the moment it's captured.

CONNECTED — REACHABLE VIA NETWORK



Cloud · Local Server / NAS · External HDD · Tape

VS

AIR-GAPPED — NO PATH IN OR OUT



Archival Blu-Ray Disc, WORM-Sealed

- TRUE WORM FORMAT
- 100% AIR-GAPPED
- 100+ YR LIFESPAN
- ZERO RECURRING COST
- EMP & MAGNETIC IMMUNE
- CJIS COURT-READY

STORAGE MEDIUM SCORECARD

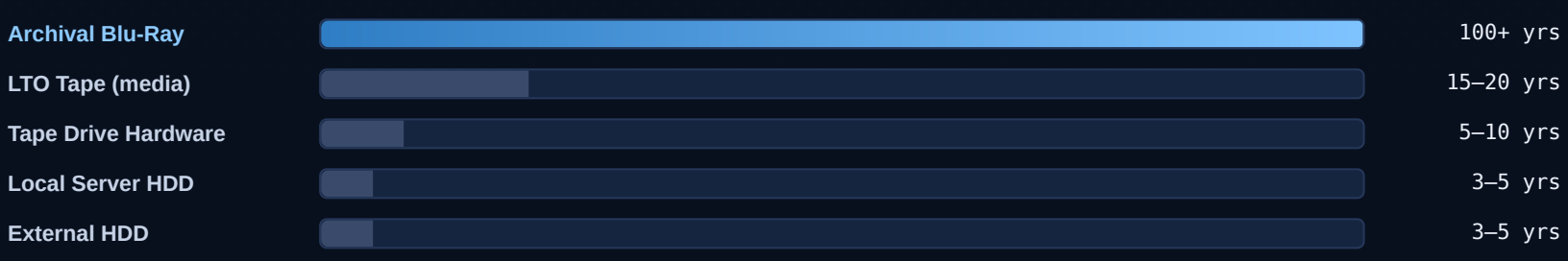
How each option performs on the factors that matter most for long-term data storage.

	BLU-RAY ARCHIVE	CLOUD STORAGE	LOCAL SERVER / NAS-SAN	EXTERNAL HDD	LTO TAPE
Air-Gapped / Network Isolation	●●●	●○○	●○○	●●○	●●○
True WORM Immutability	●●●	●○○	●○○	●○○	●●○
EMP / Magnetic-Field Immunity	●●●	●○○	●○○	●○○	●○○
Zero Recurring / Subscription Cost	●●●	●○○	●○○	●●○	●●○
No Forced Migration Cycle	●●●	●●○	●○○	●○○	●○○
Court-Ready Chain of Custody	●●●	●●○	●○○	●○○	●●○
Agency Owns & Controls the Data	●●●	●○○	●●●	●●●	●●●
Verified Media Lifespan	100+ Yrs	3–5 Yrs*	3–5 Yrs	3–5 Yrs	15–20 Yrs

● Excellent ● Fair / Limited ● Poor / High Risk

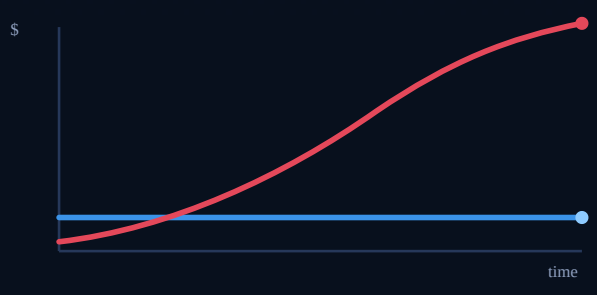
ARCHIVAL MEDIA LIFESPAN

Years of verified durability before the medium must be replaced or migrated.



*Cloud storage feels permanent, but your data still lives on the vendor's physical hard drives underneath — the same 3–5 year hardware lifespan as a local server, just outsourced. It also depends on continued subscription payment and the vendor remaining in business and honoring its contract.

COST BEHAVIOR OVER TIME



Optical Archive: one capital purchase. No subscription, power, cooling, or migration cost for the 100+ year life of the media.

Cloud / Server / Tape: costs compound — subscription fees, hardware refresh every 3–10 years, migration labor, and rising storage tiers as data volume grows.

WHY THIS MATTERS FOR DATA RETENTION

Federal cybersecurity guidance (NIST, CISA) points to the same conclusion echoed in the "3-2-1-1" backup principle: keep at least one copy offline and immutable. A network-reachable system — cloud, server, or a tape drive left connected for a restore — is, by definition, a system ransomware can eventually reach. All Pro Solutions' DiscStor vault and Olympus archiving engine are already deployed this way in South Carolina law enforcement, replacing recurring cloud contracts with a one-time, air-gapped investment.

PROTECT THE INTEGRITY OF YOUR DATA

SECURE YOUR AGENCY WITH AIR-GAPPED BLU-RAY ARCHIVING TODAY

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