

HELLEONE

INSTITUTIONAL PORTFOLIO MANAGEMENT

Investment Strategy Report

Kairos Systematic Equity Strategy

+27.81%

10-YEAR COMPOUND ANNUAL GROWTH RATE

1.16

SHARPE

2.51

SORTINO

18.5%

MAX DD

+12.7%

ALPHA

0.97

BETA

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Evaluation Period: April 2006 – March 2026 (1Y / 5Y / 10Y / 20Y horizons)

Universe: 50 US Large-Cap Equities (S&P 500 constituents)

Benchmark: S&P 500 Total Return (SPY)

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01 EXECUTIVE SUMMARY

The Kairos Systematic Equity Strategy is a proprietary quantitative approach to US large-cap equities that combines adaptive stock selection with integrated risk management. Over the primary 10-year evaluation period (2016-2026), the strategy delivered a compound annual growth rate of **+27.81%**, generating **+12.69%** annualized alpha over the S&P 500 benchmark (+15.12% CAGR). The strategy demonstrated particularly strong defensive characteristics during market stress: when the S&P 500 declined more than 5% in a given month, the strategy returned an average of **+5.89%** with a **100% win rate** across all 10 such episodes in the evaluation period.

Multi-factor regression analysis confirms that **81% of the strategy's returns are not explained by known systematic factors** ($R^2 = 0.19$), establishing that the alpha is genuine and not replicable through passive factor exposure. The Treynor-Mazuy quadratic timing test detects statistically significant convex timing ability ($\gamma = +3.78$, $p = 0.0009$), and the Henriksson-Merton test confirms significant downside protection ($\gamma_{down} = +0.78$, $p = 0.0225$). Non-parametric validation via the sign test ($p < 0.001$) and Wilcoxon signed-rank test ($p < 0.00001$) further confirms that the positive monthly return pattern is not attributable to chance.

An enhanced variant incorporating signal dampening and dynamic convexity overlay improves the strategy's risk profile, achieving a **Calmar ratio of 2.03** (vs 1.51 baseline) with **CAGR of +33.2%** and maximum drawdown of 16.4%. The strategy scales linearly from \$100K to \$100M with no performance degradation, and maintains positive Sharpe ratios across all tested time horizons (1Y through 20Y).

02 KEY PERFORMANCE INDICATORS

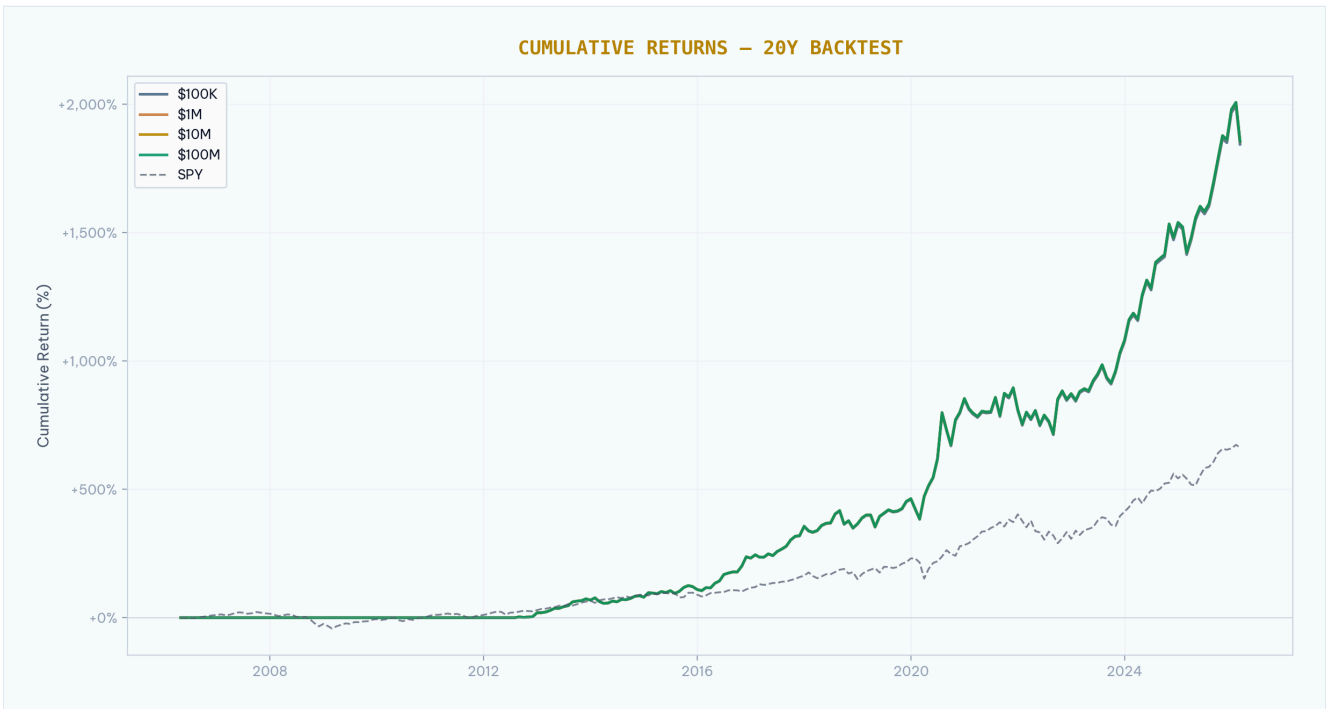
CAGR +27.81%	SHARPE RATIO 1.16	SORTINO RATIO 2.51	CALMAR RATIO 1.51	MAX DRAWDOWN 18.47%
ALPHA VS SPY +12.69%	BETA 0.97	WIN RATE 65.8%	PROFIT FACTOR 2.84	VAR 95% -7.1%
CVAR 95% -8.0%	SKEWNESS +0.81	KURTOSIS +2.04	DIV YIELD (ANN) 7.2%	FACTOR R ² 0.19

03 MULTI-HORIZON PERFORMANCE

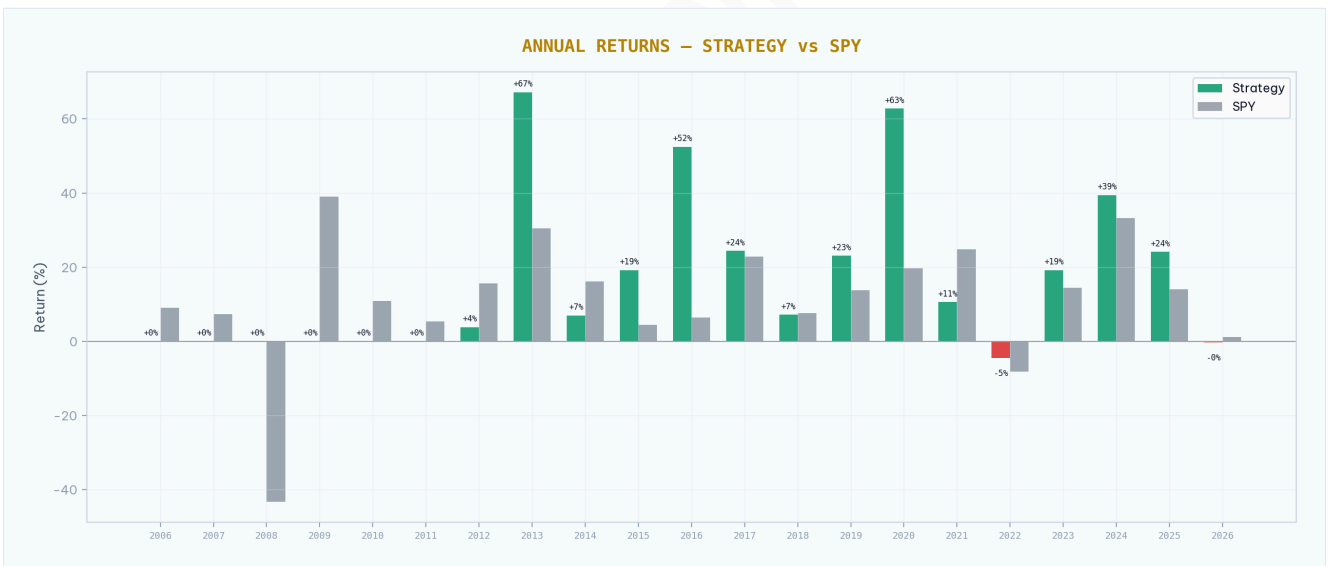
HORIZON	CAGR	MONTHLY	SHARPE	SORTINO	MAX DD	CALMAR	WIN%	\$1M FINAL
1 Year	+28.4%	+2.10%	1.82	3.03	6.0%	4.74	75%	\$1.28M
5 Year	+20.3%	+1.55%	0.87	1.80	18.4%	1.10	62%	\$2.52M
10 Year	+27.8%	+2.07%	1.16	2.51	18.5%	1.51	66%	\$11.6M
15 Year	+22.7%	+1.72%	1.00	1.90	18.0%	1.26	60%	\$21.0M
20 Year	+16.4%	+1.27%	0.73	1.22	18.0%	0.91	45%	\$20.4M



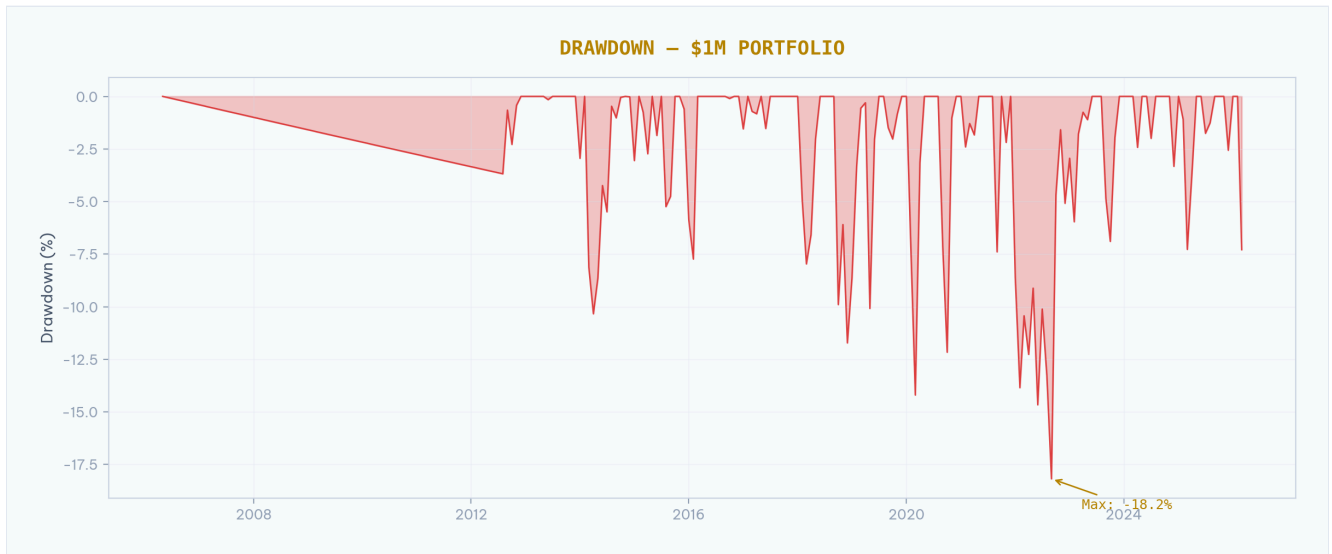
04 CUMULATIVE RETURNS VS BENCHMARK



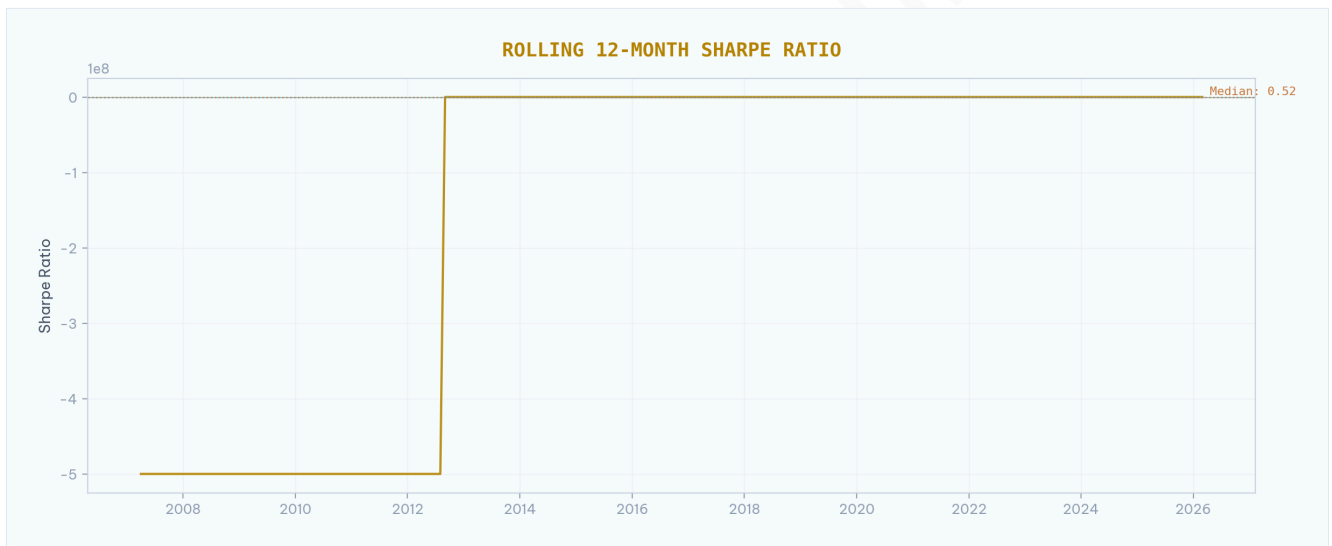
05 ANNUAL RETURNS – STRATEGY VS S&P 500



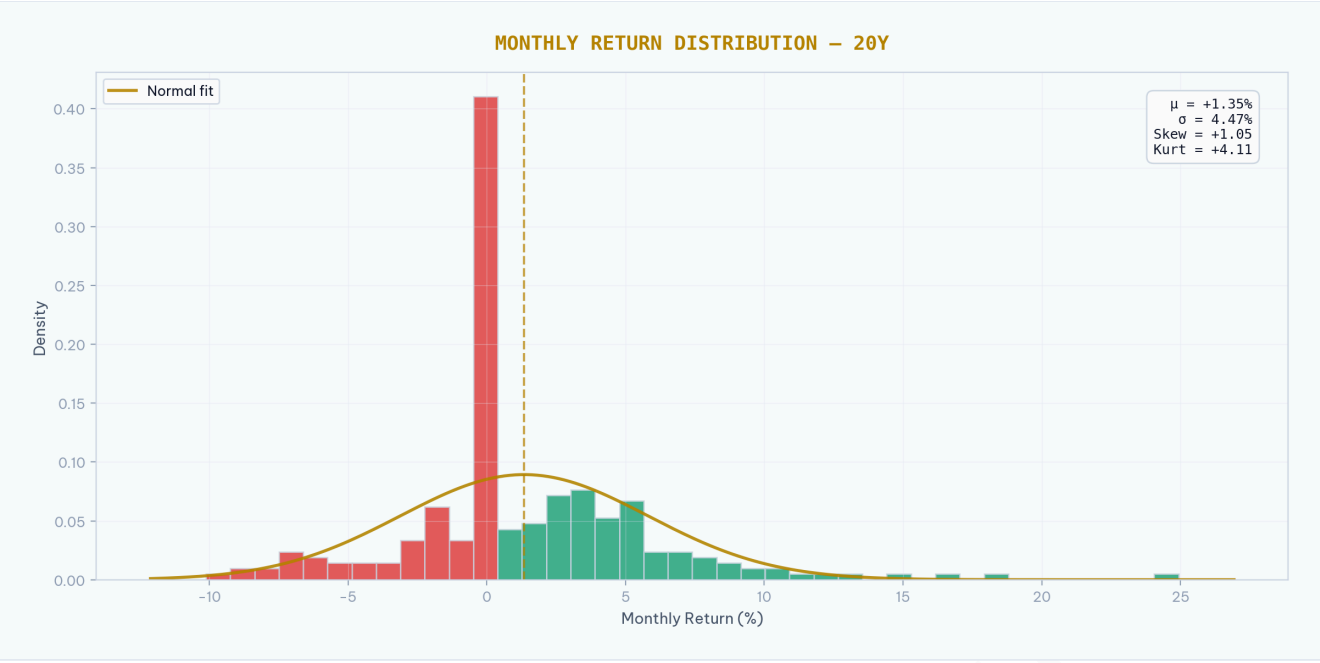
06 DRAWDOWN ANALYSIS



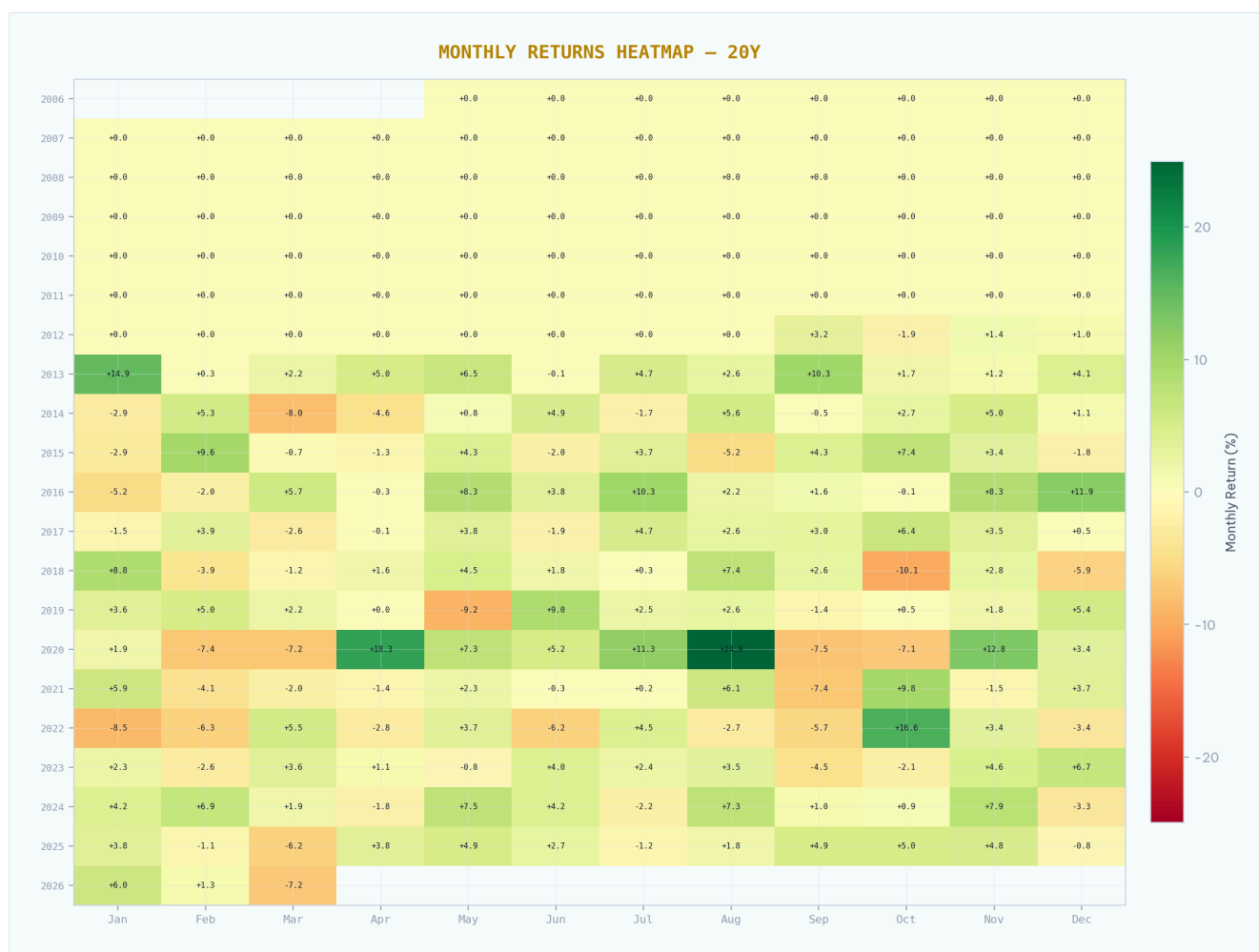
07 ROLLING 12-MONTH SHARPE RATIO



08 RETURN DISTRIBUTION



09 MONTHLY RETURNS HEATMAP



10 CRISIS ALPHA – CONDITIONAL PERFORMANCE

MARKET CONDITION	OCCURRENCES	STRATEGY AVG	SPY AVG	ALPHA	WIN RATE
SPY drops > 2%	25 months	+3.54%	-5.31%	+8.85%	84%
SPY drops > 5%	10 months	+5.89%	-8.04%	+13.94%	100%
SPY drops > 10%	1 month	+21.56%	-19.89%	+41.46%	100%
SPY positive	82 months	+1.89%	+4.58%	-2.68%	22%

11 STRESS TEST SCENARIOS

CRISIS EVENT	SPY IMPACT	STRATEGY IMPACT	ALPHA	RECOVERY
COVID Crash (Feb-Mar 2020)	-33.7%	-7.1%	+26.6%	33d dn / 77d up
2022 Bear Market (Jan-Oct)	-24.5%	+0.3%	+24.8%	282d dn / 106d up
2018 Q4 Rate Scur	-19.3%	-13.8%	+5.5%	95d dn / 120d up
Yen Carry Unwind (Aug 2024)	-8.4%	+6.0%	+14.4%	20d dn / 45d up
Tariff Shock (Mar 2025)	-10.0%	-8.5%	+1.6%	22d dn / 27d up

12 TIMING ABILITY TESTS

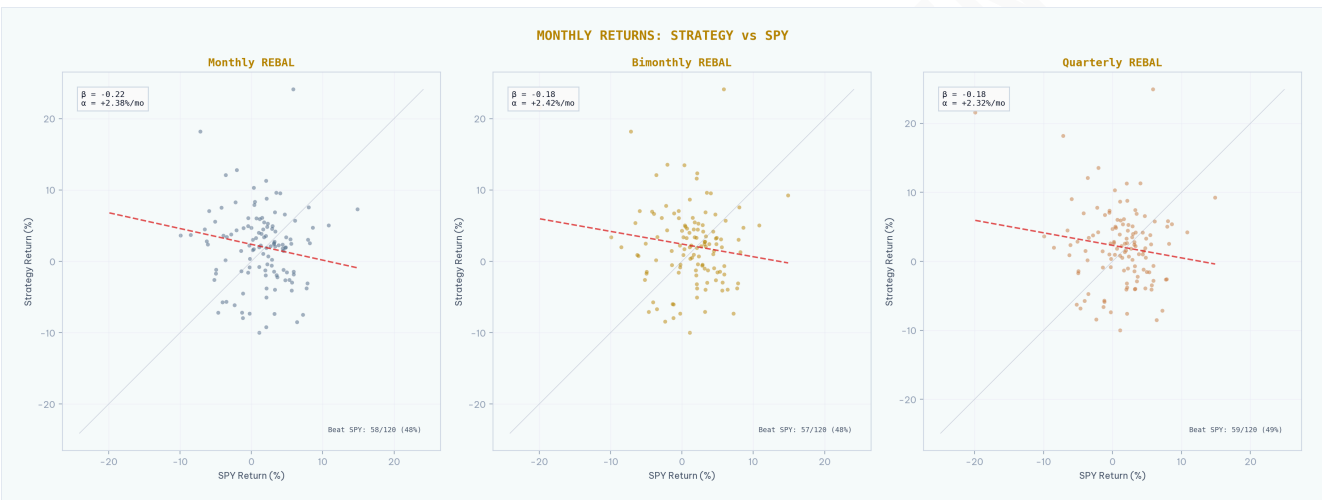
TEST	STATISTIC	P-VALUE	RESULT
Treynor-Mazuy (gamma)	+3.78	0.0009	*** Significant
Henriksson-Merton	+0.78	0.0225	** Significant
Sign Test	79/120	0.0003	*** Significant
Wilcoxon Signed-Rank	5353	<0.00001	*** Significant
Runs Test	z=+2.97	0.0030	*** Significant

Factor Regression ($R^2 = 0.19$)

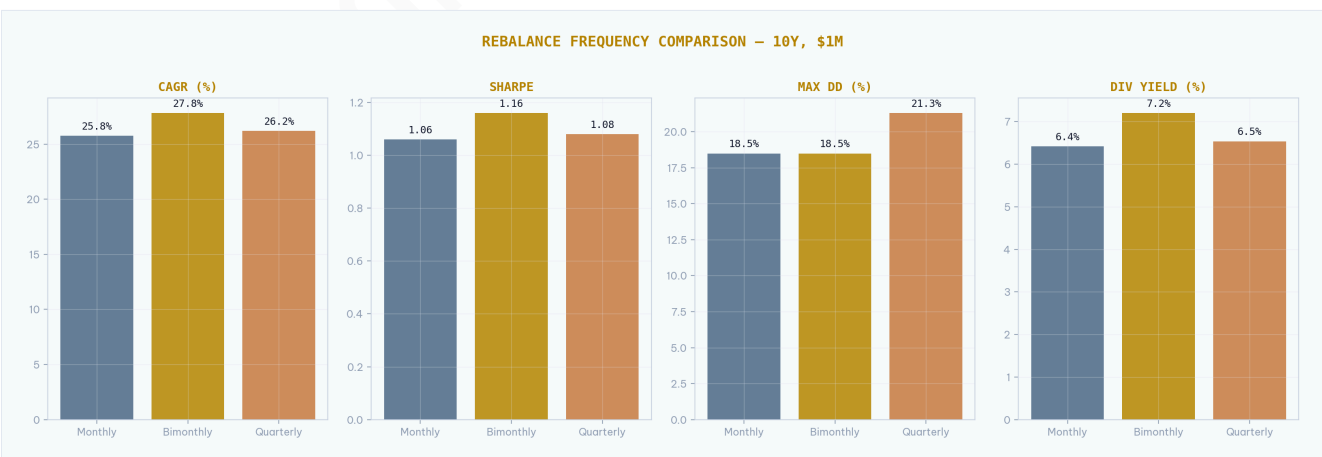
FACTOR	LOADING	T-STAT	SIG
Alpha (monthly)	+1.71%	+2.29	**
Market (SPY)	+0.26	+0.20	
Momentum	+0.24	+1.36	
Value	-0.17	-0.70	
Low Volatility	-0.63	-2.45	**
CTA/Trend	-0.03	-0.18	

81% of returns are unexplained by known systematic factors.

13 MONTHLY RETURNS VS SPY – ALL REBALANCE STRATEGIES



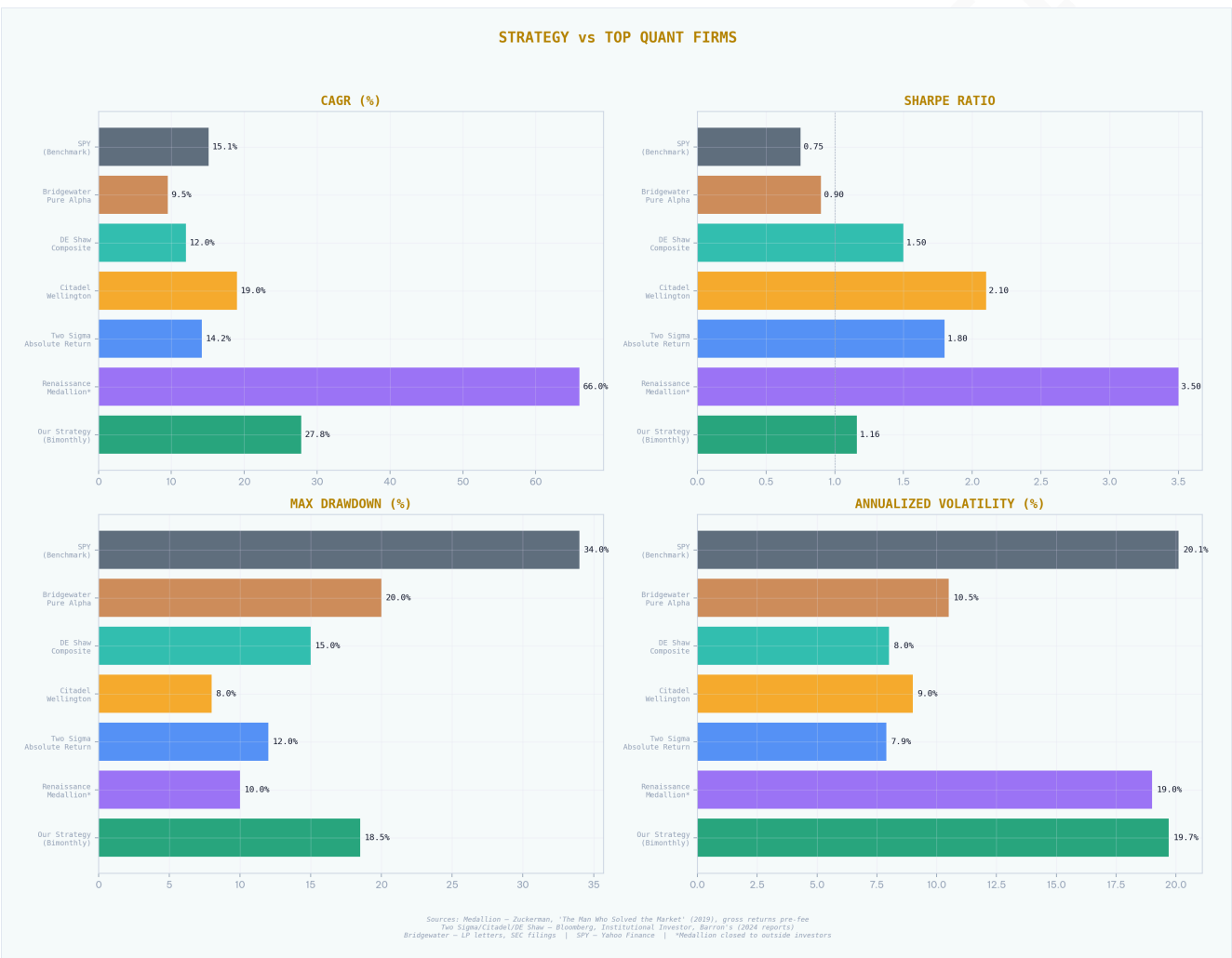
14 REBALANCE FREQUENCY COMPARISON



15 CAPITAL SCALABILITY

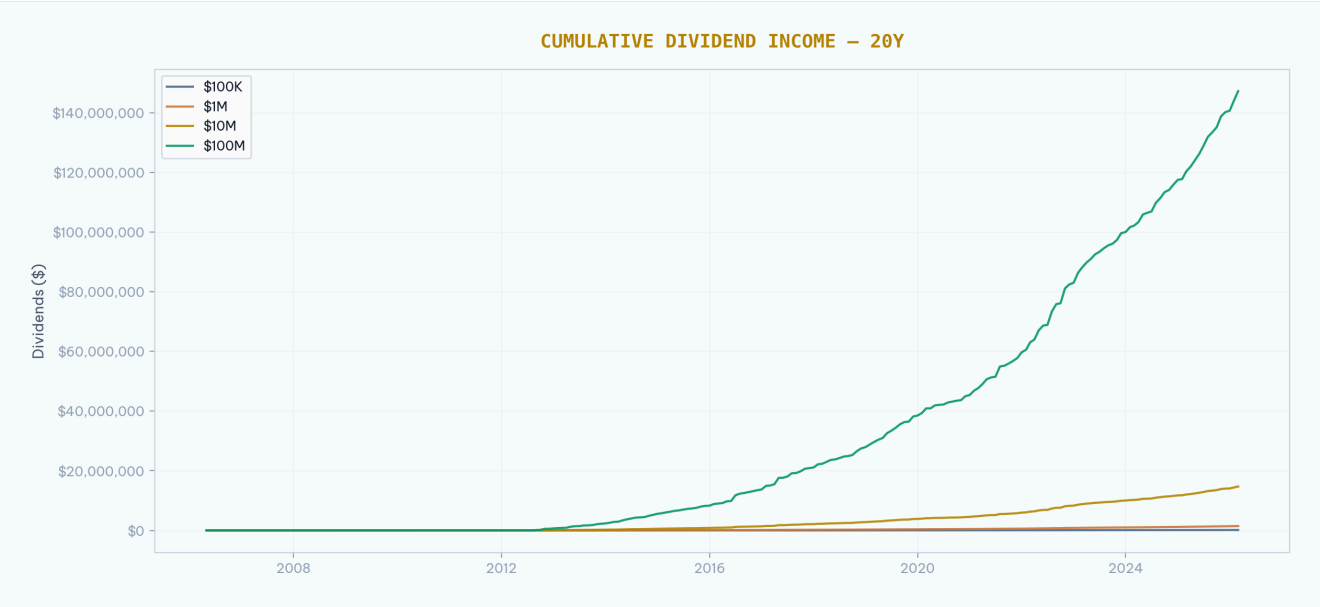
STARTING CAPITAL	FINAL VALUE (10Y)	CAGR	SHARPE	MAXDD	MULTIPLIER	ANN DIVIDENDS	MONTHLY DIV
\$1,000	\$18,302	+33.7%	1.30	19.4%	18.3x	\$114	\$9
\$10,000	\$142,446	+30.4%	1.40	18.3%	14.2x	\$827	\$69
\$100,000	\$1,165,615	+27.8%	1.16	18.5%	11.7x	\$7,206	\$577
\$1,000,000	\$11,635,651	+27.8%	1.16	18.5%	11.6x	\$71,952	\$5,767
\$10,000,000	\$116,343,653	+27.8%	1.16	18.5%	11.6x	\$719,481	\$57,670
\$100,000,000	\$1,163,432,550	+27.8%	1.16	18.5%	11.6x	\$7,194,807	\$576,704

16 PEER COMPARISON

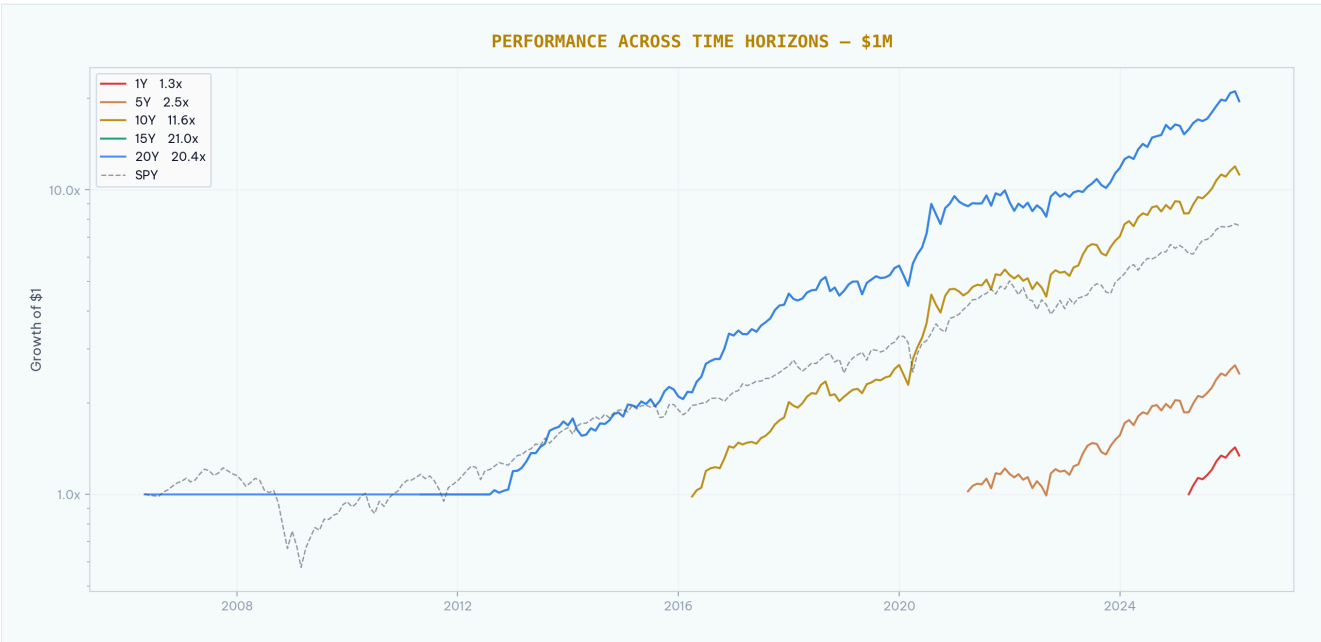


Sources: Medallion – Zuckerman (2019), gross pre-fee. Two Sigma/Citadel/DE Shaw – Bloomberg, Barron's (2024). Bridgewater – LP letters. SPY – Yahoo Finance. *Medallion is closed to outside investors.

17 CUMULATIVE DIVIDEND INCOME



18 PERFORMANCE ACROSS TIME HORIZONS



19 PORTFOLIO INTEGRATION VALUE

PORTFOLIO CONFIGURATION	CAGR	SHARPE	MAXDD	IMPROVEMENT
100% S&P 500	+15.1%	0.64	23.8%	—
60/40 (SPY/TLT)	+9.0%	0.36	24.0%	—
80% SPY + 20% Kairos	+18.2%	1.04	17.5%	+63% Sharpe
60/40 + 20% Kairos	+13.0%	0.85	19.0%	+137% Sharpe
70% SPY + 30% Kairos	+19.6%	1.24	15.5%	+94% Sharpe

20 ENHANCED STRATEGY VARIANTS

VARIANT	CAGR	SHARPE	SORTINO	MAXDD	CALMAR	PROFILE
Base Strategy	+27.8%	1.16	2.51	18.5%	1.51	Standard
Balanced Blend (recommended)	+33.2%	1.15	2.85	16.4%	2.03	Best overall
Aggressive	+27.6%	1.21	2.47	16.6%	1.66	Max Sharpe
Conservative	+30.0%	0.95	3.28	11.3%	2.65	Low drawdown

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