Strategy Settings Optimization — Executive Summary

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- **Ichimoku Parameter Adjustments:**
  - **Tenkan Period:** Reduce from 9 to 7 for improved responsiveness to price changes.
  - **Kijun Period:** Shorten from 26 to 20 to align better with crypto market dynamics.
  - **Senkou B Period:** Decrease from 52 to 40 to refine cloud support/resistance levels.
  - **Chikou Offset:** Lower from 26 to 20 to enhance signal timing relative to price action.
  - **Senkou Offset:** Adjust from 26 to 20 for better predictive capabilities in fast-moving markets.

- **Signal Logic Modifications:**
  - **Buy Logic:** Change from AND to OR to capture more entry opportunities.
  - **Sell Logic:** Switch from AND to OR for more effective exits during volatility.
  - **Add Condition:** Introduce "ChikouAbovePrice" for additional trend confirmation.

- **Risk Management Enhancements:**
  - **Stop Loss Percentage:** Tighten from 5% to 3% to minimize drawdowns.
  - **Take Profit Percentage:** Implement a target of 10% to secure profits.
  - **Position Sizing:** Transition from fixed to volatility-based sizing to optimize risk exposure.

- **Proposed Experiments:**
  - Conduct a walk-forward grid to optimize Ichimoku parameters.
  - Test the impact of additional trend confirmation conditions.

Recommended setting changes:
- tenkan_period: current=9, suggested=7. Reducing the tenkan period may enhance responsiveness to price changes, potentially capturing more short-term trends.
- kijun_period: current=26, suggested=20. A shorter kijun period can provide quicker signals, aligning better with the dynamic nature of crypto markets.
- senkou_b_period: current=52, suggested=40. Shortening the senkou B period may help in better defining the cloud's support/resistance levels.
- chikou_offset: current=26, suggested=20. Reducing the chikou offset can improve the timing of signals relative to price action.
- senkou_offset: current=26, suggested=20. A shorter senkou offset can enhance the cloud's predictive capabilities in fast-moving markets.
- Signal logic:
  • buy_logic: AND -> OR (Switching to an OR logic may allow for more flexible entry points, capturing more opportunities.)
  • sell_logic: AND -> OR (Using OR for sell signals can help in exiting positions more effectively during volatile conditions.)
  • add_conditions: ['ChikouAbovePrice']
- Risk management:
  • stop_loss_pct: 5.0 -> 3.0 (Tighter stop-loss levels can help in reducing drawdowns and preserving capital.)
  • take_profit_pct: None -> 10.0 (Implementing a take-profit target can lock in gains and improve overall risk management.)
  • position_sizing: fixed -> volatility (Adopting a volatility-based position sizing can optimize risk exposure based on market conditions.)

Experiments to run:
- Walk-forward grid: Optimize Ichimoku parameters through a systematic grid search.
- Trend filter A/B: Test the impact of additional trend confirmation conditions.