RIA
Advice

We share the Weekly Gamma Bands Update by Viking Analytics. The report uses options gamma to help you better manage risk and your equity allocations.

Gamma Band Update

The Gamma Band model[1] flipped to full allocation to the S&P 500 (SPX) last week. When the daily price closes below the Gamma Neutral or ?Gamma Flip? level (currently near 3,880), the model will reduce exposure in order to avoid price volatility. If the market closes on a daily basis below the lower gamma level (currently near 3,675), the model will reduce the SPX allocation to zero.

The quarterly March 19th option expiration date is also known as the quadruple witching date, where stock options, index options, futures options and S&P futures expire. This can be a season of volatility as the gamma from the expiring options rolls off. Above the Gamma Flip level, the dealer gamma in SPX creates a ?convergent? atmosphere[2], where rallies are sold, and dips are bought. While anything can happen, as long as the market remains near all-time highs above the Gamma Flip level, the most probable outcome will be muted price action with daily closing levels not greater than 1% from the prior close. If the market closes below the put gamma peak near 3,800 (not shown on the chart below), the potential for gamma-fueled selling will increase.

The Gamma Band model can be appropriate for investors who want upside exposure to the stock market, while protecting against downside tail risk. For investors who have been conditioned to ?buy low and sell high,? it might seem counter-intuitive to increase allocations when the market rises, but this approach has shown to increase risk-adjusted returns in the back-test.

This is one of several signals that we publish daily in our SPX Report. A free sample of the SPX report can be downloaded from this link. Please visit our website to learn more about our daily reports and price signals.

The Gamma Flip - Background

Many market analysts have noted that daily volatility in the S&P 500 will change when the value of the SPX moves from one gamma regime to another. Some analysts call this level the ?gamma

flip.? The scatterplot below shows how price volatility (on the y-axis) is increasingly lower as the value of SPX rises higher above the Gamma Neutral level (on the right side of the chart). When the value of the S&P closes lower than Gamma Neutral (to the left of the chart), volatility increases.
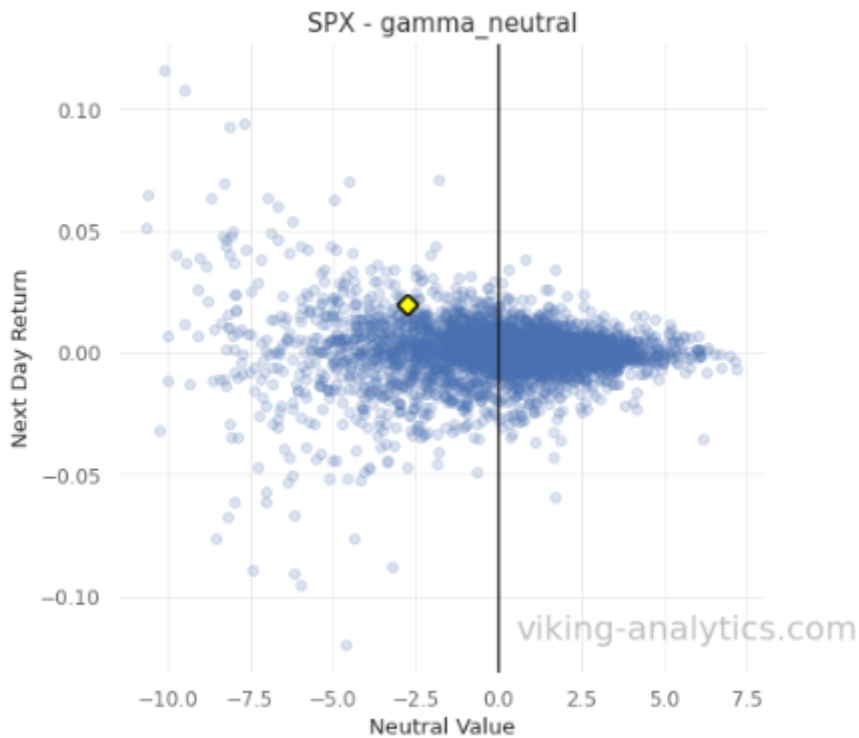

Gamma Band Model ? Background

The purpose of the Gamma Band model is to reduce tail risk. The daily Gamma Band model has improved risk-adjusted returns by 70% since 2007. The graph below demonstrates how this approach can limit drawdowns while maintaining good returns. A quick video introduction of the Gamma Band model can be seen by following this link.

	sharpe	kurtosis	annual_vol
Gamma Band Return	0.76	7.91	0.10
SPX Return	0.45	12.64	0.21

* Gamma Bands improve backtested Sharpe by: 68.5%

SPX - Gamma Bands Performance
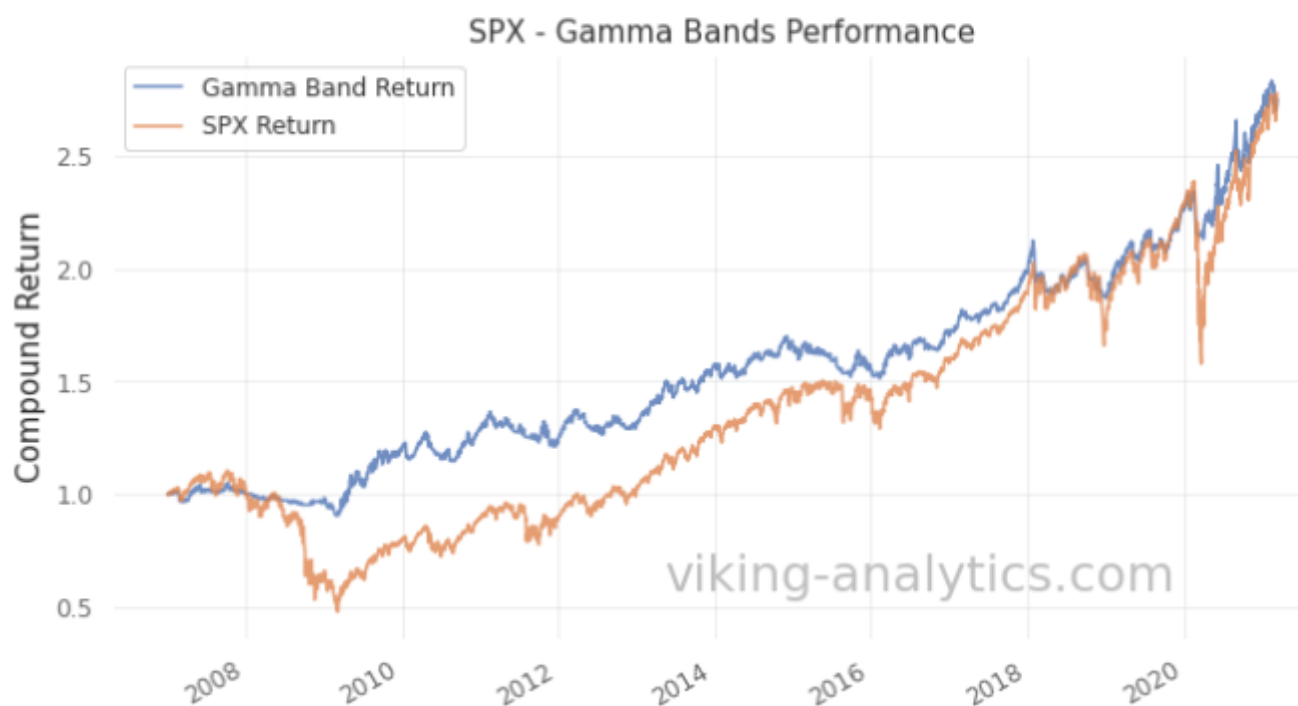
Disclaimer

This is for informational purposes only and is not trading advice. The information contained in this article is subject to our full disclaimer on our website.

[1] The Gamma Band model in our SPX Market Report adjusts position size daily based upon the daily closing levels of SPX value and calculated Gamma Neutral. The Weekly Gamma Band model is shown for illustrative purposes only.

[2] The ?convergent? / ?divergent? nature of dealer gamma is outlined very well in Corey Hoffstein?s paper *Liquidity Cascades* which can be downloaded from this link.

Authors

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