



Viking Analytics: Weekly Gamma Band Update 12/20/2021

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.

The S&P 500 (SPX) closed at all-time highs on Thursday and has been selling off steadily since then. Beginning this week, the gamma flip level is at 4,666 and our model allocation is 50% cash and 50% exposure to SPX. Last week, we said that the expiration of a meaningful amount of gamma [on Friday] could act as a gamma vacuum [this] week. Expect up and/or down volatility. The delta hedge programs will be buying the rips and selling the dips as long as we remain below the gamma neutral level.

The Gamma Band model^[1] is a simplified trend following model that is designed to show the effectiveness of tracking various gamma levels. This can be viewed conceptually as a risk management tool. When the daily price closes below Gamma Flip level, the model will reduce exposure to avoid price volatility and sell-off risk. If the market closes below what we call the lower gamma level (currently near 4,460), the model will reduce the SPX allocation to zero.

The main premise of this model is to maintain high allocations to stocks when risk and corresponding volatility are expected to be low. For investors who have been conditioned to buy low and sell high, it is counter-intuitive to increase allocations when the market rises, but this approach has shown to increase risk-adjusted returns in the back-test.

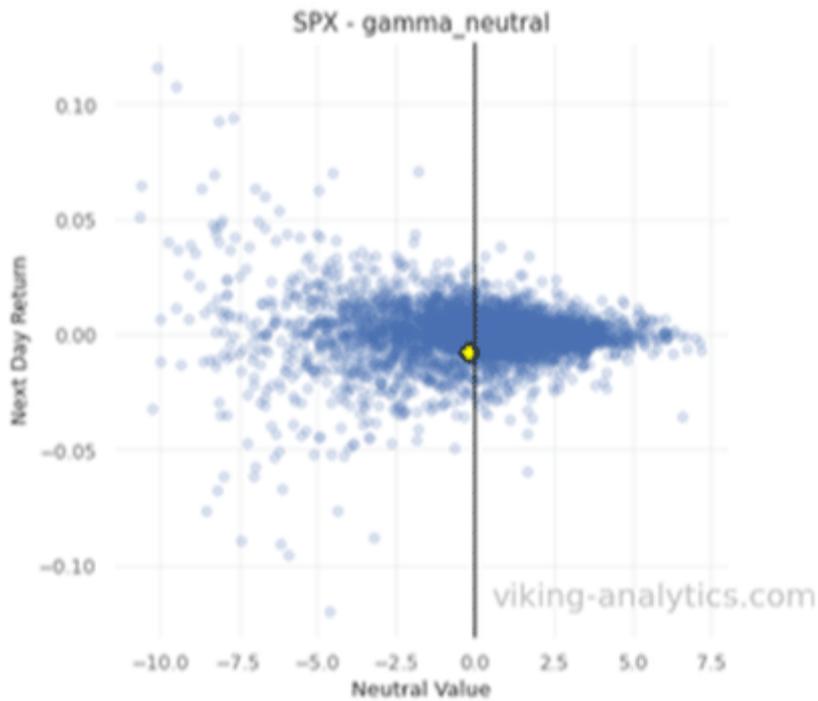


The Gamma Band model is one of several indicators that we publish daily in our SPX Report (click [here](#) for a sample report). ?

With stocks climbing to historically high valuations, risk management tools have become more important than ever to manage the next big drawdown. We incorporate many options-based signals into our daily stock market algorithms. Please visit our [website](#) to learn more about our trading and investing tools.

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 show how tail risk can be reduced by following a few simple rules.? The daily Gamma Band model has improved risk-adjusted returns by over 60% 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](#).?

Gamma Band Historic Information

	sharpe	kurtosis	annual_vol
Gamma Band Return	0.75	7.67	0.10
SPX Return	0.46	12.74	0.21

* Gamma Bands improve backtested Sharpe by: 62.2%



Disclaimer

[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.

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.

Authors

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