

Direct Indexes by SAM

Smartleaf Asset Management, LLC (SAM) provides direct index models that can be used by software clients of our parent company, Smartleaf Inc. and by SAM acting as a sub-advisor providing an outsourced personalization, tax optimization and trading service.

Direct Index Name	Designed to Track The Returns Of The:	Benchmark	Turnover ¹ (Benchmark Turnover ³)	Annual Daily Tracking Error ¹	Model Fee When Used With Smartleaf Software	Model Fee When Used With SAM Subadvisory Services	Recommended Investment Minimums ²
Smartleaf Russell 1000 Core Model (SLMR1C300)	Russell 1000 with approximately 300 securities.	Russell 1000	-- (0.62%)	1.01%	10 bps	0 bps	\$100k
Smartleaf Russell 2000 Core Model (SLMR2C400)	Russell 2000 with approximately 400 securities.	Russell 2000	-- (0.77%)	1.46%	10 bps	0 bps	\$100k
Smartleaf Russell 3000 Core Model (SLMR3C400)	Russell 3000 with approximately 400 securities.	Russell 3000	-- (0.65%)	0.83%	10 bps	0 bps	\$100k
Smartleaf Large Cap Model 70 (SLMLCC70)	S&P 500 (Large Cap) with approximately 70 securities.	S&P 500	15.35% (3.96%)	1.73%	10 bps	0 bps	\$50K
Smartleaf Large Cap Model 150 (SLMLCC150)	S&P 500 (Large Cap) with approximately 150 securities.	S&P 500	12.7% (3.96%)	0.90%	10 bps	0 bps	\$100K
Smartleaf Large Cap Model 300 (SLMDLCC300)	S&P 500 (Large Cap) with approximately 300 securities.	S&P 500	4.03% (3.96%)	0.35%	10 bps	0 bps	\$150K

Smartleaf Large Cap Growth Model 150 (SLMLCG150)	S&P 500 Growth (Large Cap Growth) with approximately 150 securities.	S&P 500 Growth	17.6% (22.79%)	0.87%	10 bps	0 bps	\$200K
Smartleaf Large Cap Value Model 150 (SLMLCV150)	S&P 500 Value (Large Cap Value) with approximately 150 securities.	S&P 500 Value	18.88% (26.14%)	1.14%	10 bps	0 bps	\$100K
Smartleaf Large Cap Catholic Model 150 (SLMLCCA150)	S&P 500 (Large Cap) and maintain a Catholic SRI tilt with approximately 150 securities.	S&P 500	6.82% (3.96%)	1.10%	15 bps	5 bps	\$250K
Smartleaf Mid Cap Model 125 (SLMDMCC125)	S&P 400 (Mid Cap) with approximately 125 securities.	S&P 400	36.46% (20.36%)	2.02%	10 bps	0 bps	\$50K
Smartleaf Mid Cap Growth Model 150 (SLMMCG150)	S&P 400 Growth (Mid Cap Growth) with approximately 150 securities.	S&P 400 Growth	48.26% (53.99%)	1.59%	10 bps	0 bps	\$75K
Smartleaf Mid Cap Value Model 150 (SLMMCV150)	S&P 400 Value (Mid Cap Value) with approximately 150 securities.	S&P 400 Value	34.33% (44.85%)	1.58%	10 bps	0 bps	\$50K
Smartleaf Mid Cap Catholic Model 150 (SLMMCCA150)	S&P 400 (Mid Cap) and maintain a Catholic SRI tilt with approximately 150 securities.	S&P 400	31.93% (20.36%)	1.89%	15 bps	5 bps	\$50K
Smartleaf SMID Cap Model 200 (SLMSMIDC200)	S&P 1000 (SMID Cap) with approximately 200 securities.	S&P 1000	26.94% (16.83%)	2.12%	15 bps	5 bps	\$50K
Smartleaf All Cap Model 200 (SLMACC200)	S&P 1500 (All Cap) with	S&P 1500	11.42% (4.28%)	0.88%	10 bps	0 bps	\$200K

	approximately 200 securities.						
Smartleaf International ADR Model 200 (SLMCADR200)	EAFE ADR Index (International) with approximately 200 securities)	EAFE ADR Index	10.48% (2.11%)	1.07%	15 bps	5 bps	\$100K
Smartleaf Large-Cap Income Model (SLMLCI125)	S&P 500 (Large Cap) with approximately 150 securities.	S&P 500	-- (30.57%)	4.61%	15 bps	5 bps	\$100k

¹ Since Inception, Annualized

² Recommended minimums assume trading is in whole shares (as opposed to fractional shares, which typically lower recommended minimums by a factor of 1000). Tracking error at any level is not guaranteed and typically increases if the account is subject to constraints such as security restrictions, social or values based screens, or minimum trade size.

³ Average of last 5 years, as published by S&P

Additional Direct Indexes

Additional models are available based on client demand. We can test and create any of the following:

- Base/Core, Growth, or Value versions of the S&P 600 (Small Cap), S&P 900 (S&P 400 (Mid Cap) + S&P 500 (Large Cap)), S&P 1000 (SMID) Cap, S&P 1500 (Total market, S&P 400 + S&P 500 + S&P 600)
- Income and Momentum themed direct indexes
- Russell indexes
- MSCI universe indexes such as ACWI
- ESG direct indexes

Looking for more information? Check out [our website](#) for more details. We can also share tear sheets of any direct index currently in production, and any tested direct index as requested.

Definitions

All returns shown are Total Returns, meaning they include reinvestment of distributions, such as interest and dividends.

Pre-Tax Return for Model and Benchmark

$$R = \left(\text{End Pre-Tax Value} / \text{Start Pre-Tax Value} \right) - 1$$

Annualized Pre-Tax Return for Model and Benchmark

$$R_{ann} = (1 + R)^{1/N} - 1$$

N is the number of years in the period.

Excess Pre-Tax Return

Difference between model return and benchmark return for pre-tax values.

$$\Delta R = R - R_{benchmark}$$

Annualized Daily Tracking Error

Annualized standard deviation of excess daily logarithmic returns of the net-of-fee performance.

$$\sqrt{250} \times SD\{R_{model} - R_{benchmark}\}$$

Where R_{model} and $R_{benchmark}$ are the series of daily log returns of the model and the benchmark, respectively.

Turnover and Annualized Turnover

$$\text{Total Buys} + \text{Total Sells} / 2 \quad | \quad \text{Total Buys} + \text{Total Sells} / 2 \times N$$

Model and Benchmark Yield

The reported yield is the dividends collected from the trailing twelve months as a percentage of the benchmark or model end value, calculated assuming dividends are not reinvested.

$$\text{Trailing Twelve Months ' Dividends} / \text{End Value Without Dividend Reinvestment}$$

Disclosures

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Performance information for the Smartleaf SLMR1C300 is based on the theoretical performance of the published model beginning on January 24, 2024. The SLMR1C300 gross-of-fee performance does not include any fees or expenses, including trading expenses, in its calculation. The SLMR1C300 net-of-fee performance is net of a model fee of 10bps (0.10%) per year deducted pro rata monthly in arrears.

Performance information for the Smartleaf SLMR2C400 is based on the theoretical performance of the published model beginning on February 6, 2024. The SLMR2C400 gross-of-fee performance does not include any fees or expenses, including trading expenses, in its calculation. The SLMR2C400 net-of-fee performance is net of a model fee of 10bps (0.10%) per year deducted pro rata monthly in arrears.

Performance information for the Smartleaf SLMR3C400 is based on the theoretical performance of the published model beginning on February 6, 2024. The SLMR3C400 gross-of-fee performance does not include any fees or expenses, including trading expenses, in its calculation. The SLMR3C400 net-of-fee performance is net of a model fee of 10bps (0.10%) per year deducted pro rata monthly in arrears.

Performance information for the Smartleaf SLMMLCC70 is based on the theoretical performance of the published model beginning on December 1, 2014. The SLMMLCC70 gross-of-fee performance does not include any fees or expenses, including trading expenses, in its calculation. The SLMMLCC70 net-of-fee performance is net of a model fee of 10bps (0.10%) per year deducted pro rata monthly in arrears.

Performance information for the Smartleaf SLMMLCC150 is based on the theoretical performance of the published model beginning on December 4, 2017. The SLMMLCC150 gross-of-fee performance does not include any fees or expenses, including trading expenses, in its calculation. The SLMMLCC150 net-of-fee performance is net of a model fee of 10bps (0.10%) per year deducted pro rata monthly in arrears.

Performance information for the Smartleaf SLMDLCC300 is based on the theoretical performance of the published model beginning on August 3, 2023. The SLMDLCC300 gross-of-fee performance does not include any fees or expenses, including trading expenses, in its calculation. The SLMDLCC300 net-of-fee performance is net of a model fee of 10bps (0.10%) per year deducted pro rata monthly in arrears.

Performance information for the Smartleaf SLMMLCG150 is based on the theoretical performance of the published model beginning on June 3, 2022. The SLMMLCG150 gross-of-fee performance does not include any fees or expenses, including trading expenses, in its calculation. The SLMMLCG150 net-of-fee performance is net of a model fee of 10bps (0.10%) per year deducted pro rata monthly in arrears.

Performance information for the Smartleaf SLMMLCV150 is based on the theoretical performance of the published model beginning on June 3, 2022. The SLMMLCV150 gross-of-fee performance does not include any fees or expenses, including trading expenses, in its calculation. The SLMMLCV150 net-of-fee performance is net of a model fee of 10bps (0.10%) per year deducted pro rata monthly in arrears.

Performance information for the Smartleaf SLMMLCCA150 is based on the theoretical performance of the published model beginning on November 15, 2022. The SLMMLCCA150 gross-of-fee performance does not include any fees or expenses, including trading expenses, in its calculation. The SLMMLCCA150 net-of-fee performance is net of a model fee of 15bps (0.15%) per year deducted pro rata monthly in arrears.

Performance information for the Smartleaf SLMMDMCC125 is based on the theoretical performance of the published model beginning on February 1, 2022. The SLMMDMCC125 gross-of-fee performance does not include any fees or expenses, including trading expenses, in its calculation. The SLMMDMCC125 net-of-fee performance is net of a model fee of 10bps (0.10%) per year deducted pro rata monthly in arrears.

Performance information for the Smartleaf SLMCMCG150 is based on the theoretical performance of the published model beginning on June 3, 2022. The SLMCMCG150 gross-of-fee performance does not include any fees or expenses, including trading expenses, in its calculation. The SLMCMCG150 net-of-fee performance is net of a model fee of 10bps (0.10%) per year deducted pro rata monthly in arrears.

Performance information for the Smartleaf SLMCMCV150 is based on the theoretical performance of the published model beginning on June 3, 2022. The SLMCMCV150 gross-of-fee performance does not include any fees or expenses, including trading expenses, in its calculation. The SLMCMCV150 net-of-fee performance is net of a model fee of 10bps (0.10%) per year deducted pro rata monthly in arrears.

Performance information for the Smartleaf SLMCMCCA150 is based on the theoretical performance of the published model beginning on November 15, 2022. The SLMCMCCA150 gross-of-fee performance does not include any fees or expenses, including trading expenses, in its calculation. The SLMCMCCA150 net-of-fee performance is net of a model fee of 15bps (0.15%) per year deducted pro rata monthly in arrears.

Performance information for the Smartleaf SLMMSMIDC200 is based on the theoretical performance of the published model beginning on June 3, 2022. The SLMMSMIDC200 gross-of-fee performance does not include any fees or expenses, including trading expenses, in its calculation. The SLMMSMIDC200 net-of-fee performance is net of a model fee of 15bps (0.15%) per year deducted pro rata monthly in arrears.

Performance information for the Smartleaf SLMACC200 is based on the theoretical performance of the published model beginning on June 3, 2022. The SLMACC200 gross-of-fee performance does not include any fees or expenses, including trading expenses, in its calculation. The SLMACC200 net-of-fee performance is net of a model fee of 10bps (0.10%) per year deducted pro rata monthly in arrears.

Performance information for the Smartleaf SLMCADR200 is based on the theoretical performance of the published model beginning on August 1, 2023. The SLMCADR200 gross-of-fee performance does not include any fees or expenses, including trading expenses, in its calculation. The SLMCADR200 net-of-fee performance is net of a model fee of 15bps (0.15%) per year deducted pro rata monthly in arrears.

Performance information for the Smartleaf SLMMLCI125 is based on the theoretical performance of the published model beginning on November 28, 2023. The SLMMLCI125 gross-of-fee performance does not include any fees or expenses, including trading expenses, in its calculation. The SLMMLCI125 net-of-fee performance is net of a model fee of 15bps (0.15%) per year deducted pro rata monthly in arrears.

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