

Equity Timing Model Overview

January 2022

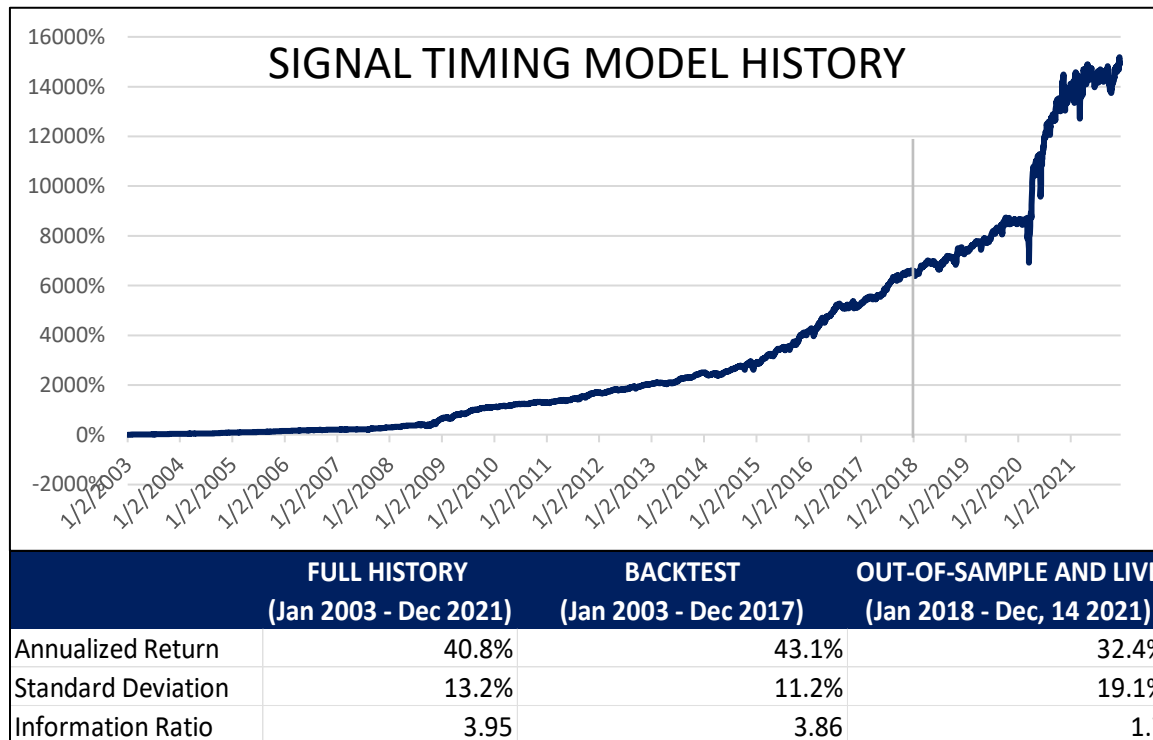
Signal Analytics is an independent analytics firm dedicated to delivering alpha generating models and tools to institutional investors. Founded in 2011, Signal is proud to count the world's largest intuitional investors among its clients, including over 30 prominent hedge and asset managers in the U.S. and U.K.

- The Timing Model combines Signal's proprietary Technical and Stretch models into a single, easy to interpret short-term timing signal. More about the underlying Technical and Stretch models on the following pages.
- Numeric score is based on a scale of +/- 100; The highest absolute signals are our strongest.
- The stronger scores offer excellent alpha generation delivering out-of-sample annualized returns of 32.4% and 1.70 Information Ratio.
- Coverage currently includes ~3500 US listed securities, ~2000 international securities, and ~700 ETFs. Coverage can be expanded to include any listed security with a minimum 2-year trading history.
- With a relatively short optimal holding period of ~5 days, the Stretch model is an excellent tactical timing tool.

Returns are based on the Top/Bottom 10% of Crowding Z-score. Universe is top 2000 U.S. listed securities by market capitalization, including ADRs (excluding China & Russia). Portfolio is dollar neutral, 100% long / 100% short and does not include transaction costs or slippage.

TIMING MODEL PERFORMANCE

The combined model offers consistent returns over time and linear signals from strongest to weakest signals.

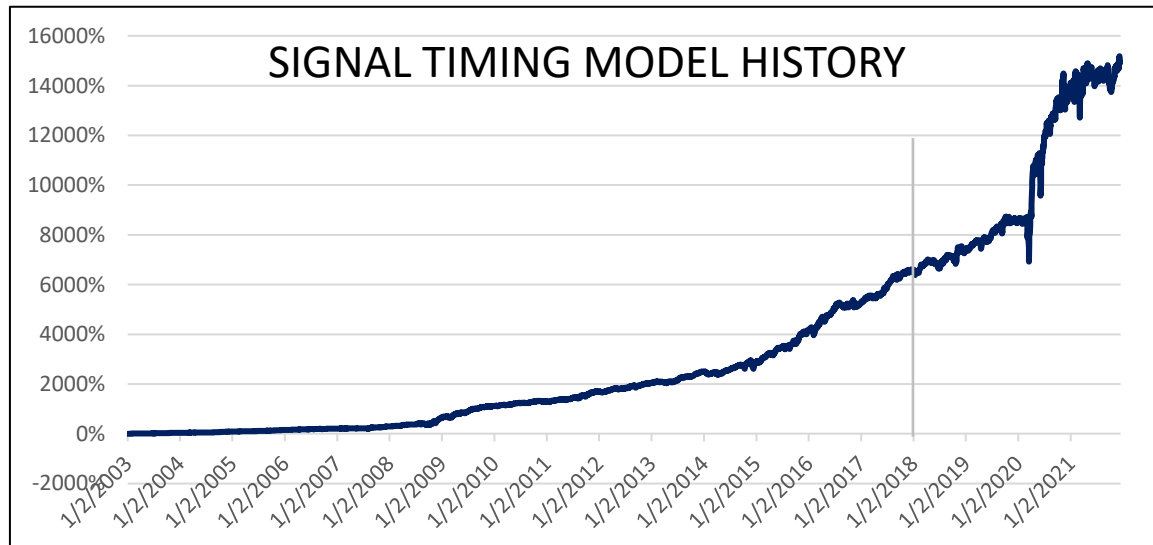


Score	Number Observations	15 Year Backtest	3 Year Out-of-Sample	1 Year Live
100	44,399	49.34	42.73	18.80
95	15,926	39.74	32.83	32.30
90	19,202	32.85	13.74	21.97
85	23,359	21.40	29.70	21.21
80	28,668	23.78	26.04	22.80
75	33,229	19.29	22.86	12.94
70	45,230	17.51	16.34	18.22
65	51,260	15.65	14.60	17.74
60	70,833	13.17	11.73	19.57
55	86,738	9.50	15.88	7.06
50	116,406	8.07	6.19	12.42
45	145,252	6.21	7.07	(2.78)
40	189,536	6.17	3.56	5.44
35	233,854	4.94	3.14	2.68
30	331,176	3.00	3.48	0.41
25	339,334	2.50	2.99	1.84
20	517,669	2.19	1.85	3.22
15	434,323	1.55	2.89	3.21
10	792,005	1.44	(0.33)	1.34
5	423,415	0.81	(1.64)	6.72
0	1,029,441	0.96	(1.07)	(5.16)
-5	541,171	(0.54)	(1.25)	1.31
-10	588,745	(0.24)	(2.98)	(0.95)
-15	617,410	(1.64)	(2.24)	(0.66)
-20	439,976	(2.72)	(1.04)	0.41
-25	382,978	(2.95)	(3.64)	0.81
-30	347,860	(4.42)	(1.25)	(3.14)
-35	306,766	(6.56)	(1.85)	(2.83)
-40	233,077	(7.17)	(0.15)	(4.58)
-45	191,728	(7.00)	(4.28)	(11.10)
-50	156,258	(9.58)	(5.23)	(9.27)
-55	124,204	(9.67)	(2.91)	(11.70)
-60	93,885	(13.07)	(5.15)	(16.25)
-65	73,669	(13.59)	(2.01)	(11.75)
-70	57,447	(15.06)	(11.20)	(18.45)
-75	41,698	(18.95)	(11.15)	(4.80)
-80	30,552	(19.04)	(12.49)	(2.65)
-85	21,414	(21.92)	(16.69)	(12.03)
-90	16,495	(21.33)	(23.38)	(31.54)
-95	10,960	(27.27)	(26.60)	(22.53)
-100	20,489	(33.39)	(34.28)	(24.70)

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Component One: TECHNICALS

The Model offers consistent alpha generating results in US Top 2000 Backtest, Out-of-Sample, Live, and Out-of-Sample universes including Small Cap and International Stocks.



Score	Number Observations	15 Year Backtest	3 Year Out-of-Sample	1 Year Live
100	44,399	49.34	42.73	18.80
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-45	191,728	(7.00)	(4.28)	(11.10)
-50	156,258	(9.58)	(5.23)	(9.27)
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Returns are based on the Top/Bottom 10% of Crowding Z-score. Universe is top 2000 U.S. listed securities by market capitalization, including ADRs (excluding China & Russia). Portfolio is dollar neutral, 100% long / 100% short and does not include transaction costs or slippage.

Components One: TECHNICALS (Continued)

Further validation of the Technical model are evident in the Small-Cap and International universes whose histories are 100% out-of-sample.

SMALL-CAP (100% out-of-sample)

TECH SCORE	6 MONTH LIVE DEC 9, 2020 to PRESENT		3 YEAR OUT-OF-SAMPLE 2018 to 2020		15 YEAR OUT-OF-SAMPLE 2003 to 2017	
	# Occ	Annual	# Occ	Annual	# Occ	Annual
85 to 100	625	79.53	11,255	50.62	47,450	42.51
65 to 84	1,817	50.99	24,288	24.66	111,793	20.88
45 to 64	5,252	21.19	44,110	12.11	234,499	10.28
25 to 44	17,643	13.19	102,318	7.32	593,981	3.75
05 to 24	37,345	17.58	211,551	2.71	1,192,376	1.13
0	40,452	(30.07)	121,041	(1.60)	585,866	(0.04)
-05 to -24	39,115	5.51	271,025	(1.87)	1,359,612	(1.80)
-25 to -44	23,083	(2.79)	174,427	(3.89)	801,578	(4.09)
-45 to -64	9,806	(15.62)	83,492	(6.60)	363,479	(5.96)
-65 to -84	3,261	(39.74)	32,027	(15.82)	135,285	(10.61)
-85 to -100	1,069	(71.05)	12,556	(35.10)	49,691	(22.02)

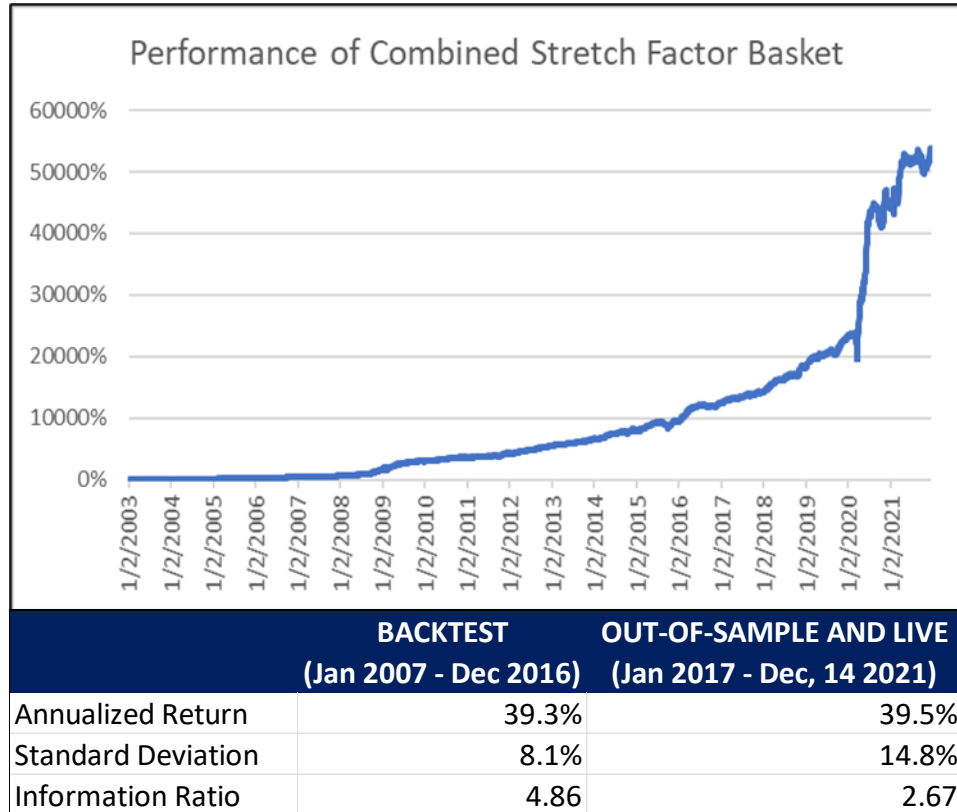
INTERNATIONAL EQUITIES (100% out-of-sample)

TECH SCORE	RECENT OUT-OF-SAMPLE 2018 to PRESENT		HISTORICAL OUT-OF-SAMPLE 2003 to 2017	
	# Occ	Annual	# Occ	Annual
85 to 100	14,423	31.04	43,202	57.07
65 to 84	31,645	16.78	104,866	27.61
45 to 64	67,429	7.06	242,737	14.36
25 to 44	169,915	2.57	651,387	3.81
05 to 24	350,805	(0.37)	1,306,910	(0.00)
0	178,604	2.95	599,763	0.34
-05 to -24	403,938	(0.90)	1,378,195	(1.29)
-25 to -44	253,670	(1.89)	799,850	(4.42)
-45 to -64	118,803	(6.12)	360,673	(8.12)
-65 to -84	44,451	(9.13)	133,071	(14.54)
-85 to -100	16,132	(18.99)	46,412	(29.22)

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Component Two: STRETCH MODEL

- Signal's Stretch model combines Statistical Regression Analyses to determine when stocks deviate too much from their closest correlated macro variable and industry and sector index's



	Number Score Observations	15 Year Backtest	4 Year Out-of-Sample
10	20,911	61.34	110.01
9	51,297	27.38	33.39
8	35,521	24.85	19.03
7	46,895	14.25	7.21
6	34,506	13.98	8.56
5	89,970	9.98	7.26
4	148,853	9.13	9.04
3	365,738	6.28	6.59
2	1,210,582	4.98	4.71
1	512,317	3.52	4.82
0	3,661,208	1.24	0.65
-1	598,836	-1.64	-0.20
-2	922,848	-3.41	-2.68
-3	818,666	-6.31	-2.48
-4	929,908	-7.99	-7.14
-5	122,503	-10.97	-16.58
-6	96,384	-13.03	-38.66
-7	84,916	-14.08	-26.97
-8	17,280	-19.26	-73.43
-10	9,817	-45.69	-103.33

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- For more information, please contact Signal's head of sales, Patrick Quill at 917.597.3920 or pquill@signal-inc.com.

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