

Luminex Corporation (LMNX)

\$26.22 (As of 09/29/20)

Price Target (6-12 Months): **\$28.00**

Long Term: 6-12 Months

Zacks Recommendation:

Neutral

(Since: 01/07/20)

Prior Recommendation: Underperform

Short Term: 1-3 Months

Zacks Rank: (1-5)

3-Hold

Zacks Style Scores:

VGM:B

Value: C

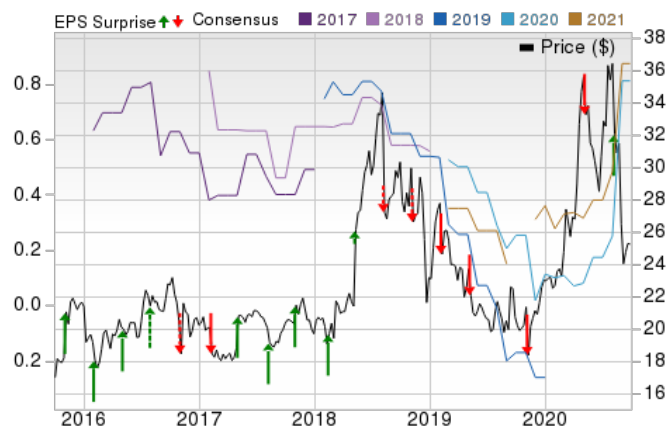
Growth: A

Momentum: D

Summary

Luminex continues to gain from its flagship ARIES and VERIGENE platforms that currently have a strong customer base. The company exited the second quarter on a mixed note, with earnings beating estimates but revenues missing the same. Revenues at the Assay and Other segments witnessed an uptick during the quarter. Also, the company witnessed total sample-to-answer molecular diagnostics revenue growth in the quarter. Expansion of both margins is a positive. The acquisition of the flow cytometry asset of Millipore Sigma continues to drive performance. Notably, a plethora of regulatory clearances instill optimism on the stock. Solid product portfolio expansion is also encouraging. However, revenues at each operating segment other than the Assay and Other segments declined in the quarter. Year-to-date, the stock has underperformed its industry.

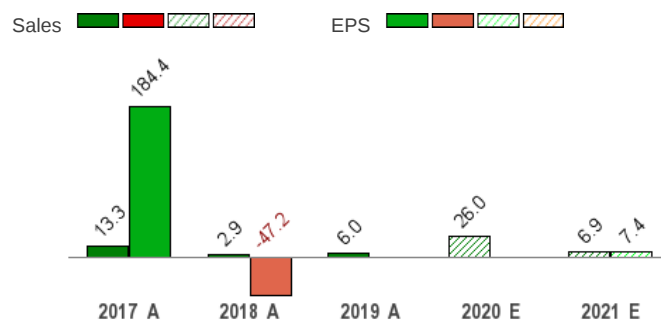
Price, Consensus & Surprise



Data Overview

52-Week High-Low	\$41.42 - \$17.35
20-Day Average Volume (Shares)	568,729
Market Cap	\$1.2 B
Year-To-Date Price Change	13.2%
Beta	0.58
Dividend / Dividend Yield	\$0.36 / 1.4%
Industry	Medical - Instruments
Zacks Industry Rank	Bottom 31% (174 out of 251)

Sales and EPS Growth Rates (Y/Y %)



Last EPS Surprise	237.5%
Last Sales Surprise	-0.1%
EPS F1 Estimate 4-Week Change	0.0%
Expected Report Date	11/02/2020
Earnings ESP	0.0%
P/E TTM	114.0
P/E F1	32.4
PEG F1	2.2
P/S TTM	3.3

Sales Estimates (millions of \$)

	Q1	Q2	Q3	Q4	Annual*
2021	109 E	113 E	106 E	116 E	451 E
2020	90 A	110 A	106 E	116 E	422 E
2019	82 A	83 A	79 A	91 A	335 A

EPS Estimates

	Q1	Q2	Q3	Q4	Annual*
2021	\$0.23 E	\$0.21 E	\$0.18 E	\$0.21 E	\$0.87 E
2020	\$0.01 A	\$0.27 A	\$0.21 E	\$0.32 E	\$0.81 E
2019	-\$0.07 A	-\$0.10 A	-\$0.12 A	\$0.07 A	-\$0.21 A

*Quarterly figures may not add up to annual.

The data in the charts and tables, including the Zacks Consensus EPS and Sales estimates, is as of 09/29/2020. The reports text is as of 09/30/2020.

Overview

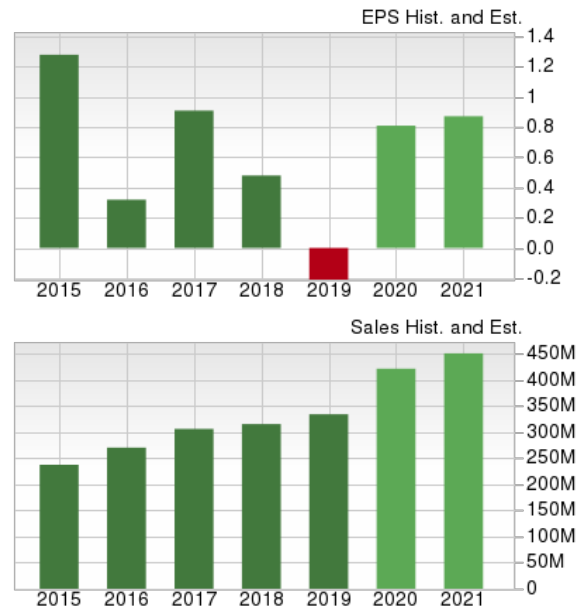
Luminex Corporation founded in 1995 and based in Austin, TX, develops, manufactures and markets proprietary biological testing technologies with applications throughout the life sciences and diagnostics industry. The company's open-architecture multiplexing xMAP (Multi-Analyte Profiling) technology is sold worldwide and is used by leading research laboratories as well as major pharmaceutical, diagnostic and biotechnology companies for conducting biological tests.

Its products include Luminex 100/200 that integrates fluidics, optics, and digital signal processing; FLEXMAP 3D system for use as a general laboratory instrument; MAGPIX system, a multiplexing analyzer for qualitative and quantitative analysis of proteins and nucleic acids; ARIES system, a sample to answer real-time PCR platform; ARIES M1 system, a single-module version of the ARIES System; and VERIGENE system, a semi-automated, multiplex, molecular analysis system for the clinical diagnostics market.

2019 at a Glance

Luminex's 2019 revenues grossed \$334.6 million, up 5.9% year over year.

- System sales were \$76.3 million (21% of net revenues)
- Consumables were \$48.5 million (14.5%)
- Royalty Revenues were \$53.6 million (16%)
- Assay Revenues were \$132 million (39.5%)
- Service Revenues were \$22.4 million (6.7%)
- Other revenues were \$7.8 million (2.3%).



Source: Zacks Investment Research

Reasons To Buy:

- ▲ **Molecular Diagnostics Platform Solid:** The COVID-19 pandemic positively impacted the company's molecular diagnostic revenues. The company placed over 160 molecular diagnostic systems in the second quarter.

In the second quarter, total sample-to-answer molecular diagnostics revenues grew more than 100% from the prior-year quarter, mainly driven by increased demand from the COVID-19 pandemic. Non-automated Molecular Diagnostics revenues were up 150% year over year and sample-to-answer Molecular Diagnostics revenues grew 64%. Management anticipates Molecular Diagnostics revenue growth between 80% and 100% from the year-ago quarter.

- ▲ **Product Portfolio Strong:** Luminex has a broad product portfolio that comprises of its advanced xMAP, xTAG and Multi Code technology. Per management, 2020 will be a transformative year for the company owing to three new product launches supporting a return-to-accelerated growth.

The first new product is VERIGENE II system that will provide a fully automated solution, comprising room temperature storage with significantly reduced footprint, thereby achieving equivalent throughput to the current VERIGENE system.

Also, Luminex's Flow Cytometry group will launch the Guava easyCyte next generation system. The main objective of this system is to reinforce the company's position as a leader in the benchtop flow cytometry space. Given the software enhancements made to this system, the company is optimistic regarding generating a steady revenue stream from the newly acquired Flow Cytometry.

In the second quarter, the company launched a plethora of new testing solutions in response to the pandemic and anticipates launching several more very soon. At the same time, it continues to invest in the development of core technologies, including its VERIGENE portfolio, xMAP Technology and flow cytometry portfolios. Luminex expanded its sample-to-answer system installed base in the second quarter with more than 160 systems.

In July 2020, the company delivered the first of its new xMAP INTELLIFLEX Systems to several of its Life Science Research Partners. This marks a significant milestone in the company's strategy with respect to the expansion of its xMAP Technology with new functionality to facilitate new applications. By the end of 2020, the company intends to fully commercialize this next generation of xMAP Technology.

- ▲ **VERIGENE Platform Drives Growth:** Luminex' flagship VERIGENE System enables clinicians to identify the pathogens for some of the most complex, costly, and deadly infectious diseases.

Luminex's molecular portfolio integrated the next gen VERIGENE II system, which initiated clinical trial in June 2018. VERIGENE II is a higher-plex instrument that can run complex assays of more than 50 pathogens in less than two hours. Each VERIGENE II instrument can have up to six units in a system, allowing for up to six independent assays to be performed at once. The new VERIGENE II Plus component, which increases the power and flexibility of the VERIGENE II instrument, would be incorporated into the VERIGENE II system, allowing for faster turnaround times, and real time chemistry option.

In the second quarter, the company submitted SARS-CoV-2 stand-alone assay on VERIGENE I and is planning to submit soon for a FDA EUA for VERIGENE II Respiratory assay with the SARS-CoV-2 target.

- ▲ **The Aries Platform:** Luminex is making noteworthy progress with another major product– the ARIES system, which represents a major revenue opportunity for the company. Luminex is focused on fortifying its market leadership in infectious disease with sample to answer platform, the ARIES system. Notably, with respect to this product line, average annual utilization was up 7% from the prior year.

Per management, Luminex is the only company that provides solutions for both targeted and syndromic testing in a lab. Luminex received an approval from the U.S. FDA for the ARIES Group B Strep assay. Luminex received its fourth and fifth FDA clearances on the Aries assay platform in the recent past for ARIES Bordetella and ARIES C. Difficile assays. Luminex also gained CE-IVD marking for Norovirus and C. Difficile. In fact, the company is about to complete its clinical study for Group A Strep, which would be soon given for review to the U.S. FDA.

In the second quarter, the company raked in \$643,000 of revenues from the second BARDA contract that it inked associated with the development of its ARIES SARS-CoV-2 assay. The utilization rate for the company's ARIES systems was slightly more than 80,000 per ordering customer during the second quarter.

In our opinion, approval for Luminex's products in international markets will further strengthen its pipeline, which should help the company gain significant top-line growth over the long haul.

- ▲ **Plethora of Regulatory Approvals:** In the third quarter, Luminex's ARIES, MRSA Assay received FDA clearance, marking the company's eighth assay clearance globally.

In fact, on the international front, Japan's Central Social Insurance Medical Council had approved the recommendation by the Japanese Ministry of Health, Labor and Welfare ("MHLW") to provide reimbursement for two VERIGENE assays: The Gram-Positive Blood Culture (BC-GP) test and the Gram-Negative Blood Culture (BC-GN) test. Notably, Japan is the company's second largest market for molecular diagnostics.

Earlier, Luminex announced the receipt of FDA clearance for the ARIES Group A Strep Assay, which is a moderate complexity, sample to answer test for the direct detection of Streptococcus pyogenes from throat swab specimens using the ARIES System. Per management, this is the sixth assay that has been cleared by the FDA for use on the company's ARIES Systems in the last two years.

Luminex is making significant progress with its ARIES system, plethora of regulatory approvals, and accretive acquisitions which we believe will drive market share expansion in the long run.

During the fourth quarter, the company submitted VERIGENE II Gastrointestinal Flex Assay to the FDA. Further, the company submitted VERIGENE II Respiratory Flex Assay to the FDA in first-quarter 2020 and then commercially launched the system and both assays soon after approval.

In March 2020, the company received EUA from the FDA for its NxTAGCoV Extended Panel that will be used to detect the SARS-CoV-2 virus. Now, high-complexity molecular laboratories can utilize the NxTAG test on Luminex's easy-to-use, compact MAGPIX System, which will help detect the virus causing COVID-19 for up to 96 patients in about four hours. In April, the company announced the receipt of EUA from the FDA for its ARIES SARS-CoV-2 Assay that can rapidly detect the virus causing COVID-19.

In June, the company submitted an EUA request to the FDA for its xMAP SARS-CoV-2 Multi-Antigen IgG assay. The assay has been created to offer additional capacity to detect antibodies in patients who might have been exposed to or infected by SARS-CoV-2. Notably, this COVID-19 antibody test can deliver outstanding results for up to 96 samples in under three hours and has been developed to run on all xMAP platforms.

In July, the company received EUA from the FDA for its xMAP SARS-CoV-2 Multi-Antigen immunoglobulin class G (IgG) Assay. Clinical laboratories can now utilize this serology assay to detect the presence of antibodies in people affected by the virus causing COVID-19. Notably, this is the company's third COVID-19 test to receive EUA since March 2020.

▲ **Strategic Collaborations:** Luminex has entered collaborative agreements with several companies, which should help expand the use of its products/technology. An agreement with EDP Biotech Corporation buoys optimism, wherein EDP will have the rights to develop, market and sell its blood-based colorectal cancer diagnostic assay, ColoPlex, utilizing Luminex's xMAP technology.

Luminex had also announced earlier the signing of a new supply and distribution agreement with Bio-Techne Corp. through 2020. The partnership deal involves immunoassay development and commercialization of Bio-Techne biological content using the Luminex testing platform.

▲ **Promising Market Trends:** Luminex is a leading player in the molecular diagnostics space. The company offers more than 15,000 products encompassing 16 different categories. The categories include Recombinant Proteins, GMP Proteins, Antibodies, ELISAs, Luminex Assays and High-Performance Assays, Stem Cell Products, Cell Culture, Small Molecules & Peptides and more. In the global scenario, a report by Grand View Research reveals that the molecular diagnostics market is estimated to witness a CAGR of 9.1% to reach \$19.8 billion by 2026. Such market trends can also prove accretive for Luminex.

▲ **Balance Sheet View:** Luminex exited the second quarter with cash and cash equivalents amounting to \$292 million, up sequentially from \$43 million. Long-term debt at the end of the quarter was \$214 million, up from \$17 million sequentially. However, the company finished the second quarter with no current debt on its balance sheet. Also, cumulative net cash provided by operating activities at the end of the second quarter of 2020 was \$24.1 million against cumulative net cash used in operating activities of \$1.2 million in the year-ago quarter. This is particularly good when it comes to the company's solvency position, as at least during a year of economic downturn, the company has sufficient cash for debt repayment.

Reasons To Sell:

▼ **Share Price Movement:** In the past year, shares of Luminex have gained 13.2%, compared with the industry's growth of 15.3%. Sluggishness in the Consumables Sales segment, intense competition and economic volatility (resulting from the COVID-19 pandemic) continue to weigh on the stock.

▼ **Headwinds:** In the second quarter, revenues at System Sales segment declined 16.7% from the year-ago quarter. Consumable Sales segment was down 11% year over year. Royalty revenues were down 5.5% on a year-over-year basis. Revenues at the Service segment were down 8.3% from the year-ago quarter.

▼ **Challenging Reimbursement Landscape:** Luminex may be impacted by future changes to the reimbursement landscape. As per the new molecular diagnostic code system established by the Centers for Medicare and Medicaid Services (CMS) in recent past, the Protecting Access to Medicare Act (PAMA) will require clinical laboratories to report to CMS the volume of each laboratory test and the price paid by private payors. This has led to a drop in Luminex's lab customer traffic.

A number of Luminex' lab customers have experienced several headwinds and delays, all of which are resulting in lower than anticipated testing volumes for the customers and resultantly decreased assay revenues for the ARP segment. Additionally, budget sequestration in the U.S. adds to the reimbursement risk for the company.

▼ **Cutthroat Competition in Life-sciences Industry:** Luminex operates in the highly competitive life sciences industry. The industry is characterized by rapid and continuous technological innovation. Currently, it is facing significant competitive headwinds in the respiratory market.

▼ **Reduced Spending by Partner Companies:** Luminex is highly dependent on its partners for revenue generation. The company's customers include clinical diagnostic, pharmaceutical, biotechnological, chemical and industrial companies. Reduced spending on research and diagnostics by these companies is adversely impacting the demand for the company's products. In general, spending on research and drug discovery remains weak given the soft macroeconomic conditions. Moreover, the company's consumable sales have been fluctuating considerably over the last 3 years mainly due to periodic changes in volume of the company's largest bulk purchasing partners. These fluctuations are expected to remain as the ordering patterns and inventory levels of Luminex's largest bulk purchasing partners continue to be variable. This lower level of purchasing is expected to continue over the next several years.

Reimbursement risk and fluctuations in consumables revenues are major headwinds faced by the company in the near term.

Last Earnings Report

Luminex Q2 Earnings Beat Estimates, Revenues Miss

Luminex Corporation reported second-quarter 2020 adjusted earnings of 27 cent per share , beating the Zacks Consensus Estimate of 8 cents. The company reported loss per share of 11 cents in the year-ago period.

Revenues came in at \$109.5 million, missing the Zacks Consensus Estimate by a marginal 0.1%. However, the top line improved 31.8% on a year-over-year basis.

Total sample-to-answer molecular diagnostics revenues grew more than 100% from the prior-year quarter.

Segmental Analysis

System Sales

Revenues at this segment totaled \$15.5 million, declined 16.7% from the year-ago quarter.

Consumable Sales

This segment accounted for \$11.3 million of revenues, down 11% year over year.

Royalty Revenues

Royalty revenues totaled \$12.1 million, down 5.5% on a year-over-year basis.

Assay Revenues

This segment reported revenues worth \$61.2 million, up 94.9% on a year-over-year basis.

Service Revenues

Revenues in the segment amounted to \$5.5 million, down 8.3% from the year-ago quarter.

Other

Other revenues came in at \$3.9 million, up 160% from the prior-year quarter.

Financial Update

The company exited second quarter with cash and cash equivalents totaled \$291.7 million, up from \$43.1 million on a sequential basis.

Cumulative net cash provided by operating activities at the end of second quarter of 2020, came in at \$24.1 million, against cumulative net cash used in operating activities of \$1.2 million in the year-ago period.

Margins

Gross profit in the reported quarter was \$69.7 million, up 54.1% year over year. Gross margin was 63.6%, expanding 917 (basis points) bps.

The company reported adjusted operating profit of \$21.6 million, against the year-ago quarter's adjusted operating loss of \$2.9 million. Adjusted operating margin came in at 19.7%, an expansion of 2324 bps.

2020 Guidance

Luminex projects third-quarter 2020 revenue to be at or above \$100 million, reflecting growth above 26% from figure reported in third quarter 2019. The Zacks Consensus estimate for the same is pegged at \$93.3 million.

Revenue for the full -year 2020 is estimated to be at or above \$415 million, reflecting growth over 24% from figure reported in 2019. The Zacks Consensus estimate for the same is pegged at \$407.4 million.

It is important to note here that the company expects to present an updated full-year revenue outlook in its third-quarter earnings release.

Quarter Ending	06/2020
Report Date	Aug 04, 2020
Sales Surprise	-0.07%
EPS Surprise	237.50%
Quarterly EPS	0.27
Annual EPS (TTM)	0.23

Recent News

Luminex Submits EUA Request for Expanded NxTAG RPP Test: Jul 22, 2020

Luminex has submitted an Emergency Use Authorization request to the FDA for a new expanded version of its NxTAG Respiratory Pathogen Panel (RPP) in order to include the SARS-CoV-2 virus for high-throughput COVID-19 testing.

Luminex Receives EUA for New COVID-19 Antibody Test: Jul 20, 2020

Luminex announced that it has received Emergency Use Authorization (EUA) from the FDA for its xMAP SARS-CoV-2 Multi-Antigen immunoglobulin class G (IgG) Assay. Clinical laboratories can now utilize this serology assay to detect the presence of antibodies in people affected by the virus causing COVID-19. Notably, this is the company's third COVID-19 test to receive EUA since March 2020.

Valuation

Luminex's shares are up 13.2% and 30.9% in the year-to-date period and the trailing 12-month periods, respectively. Stocks in the Zacks sub-industry are up 15.3% in the year-to-date period while that in the Zacks Medical sector are down 1%. Over the past year, the Zacks sub-industry is up 24.3% while the sector is up 12.4%.

The S&P 500 index is up 4.1% in the year-to-date period and 14.2% in the past year.

The stock is currently trading at 2.7X Forward 12-months sales, which compares to 4.4X for the Zacks sub-industry, 2.8X for the Zacks sector and 4.1X for the S&P 500 index.

Over the past five years, the stock has traded as high as 4.9X and as low as 0.02X, with a 5-year median of 3.1X.

Our Neutral recommendation indicates that the stock will perform in-line with the market. Our \$28 price target reflects 2.9X forward 12-months sales.

The table below shows summary valuation data for LMNX.

Valuation Multiples - LMNX					
		Stock	Sub-Industry	Sector	S&P 500
P/S F12M	Current	2.74	4.36	2.77	4.09
	5-Year High	4.88	4.54	3.25	4.3
	5-Year Low	0.02	2.54	2.24	3.18
	5-Year Median	3.08	3.17	2.87	3.67
P/B TTM	Current	2.38	4.56	3.88	5.77
	5-Year High	3.82	4.82	5.07	6.19
	5-Year Low	1.71	2.75	2.95	3.75
	5-Year Median	2.24	3.92	4.29	4.87
EV/SALES TTM	Current	3	5.3	3.38	3.82
	5-Year High	5.08	5.58	3.77	4.15
	5-Year Low	2.28	3.05	2.61	2.61
	5-Year Median	2.96	3.94	3.37	3.56

As of 09/29/2020

Source: Zacks Investment Research

Industry Analysis Zacks Industry Rank: Bottom 31% (174 out of 251)



Source: Zacks Investment Research

Top Peers

Company (Ticker)	Rec	Rank
Quidel Corporation (QDEL)	Outperform	1
QIAGEN N.V. (QGEN)	Outperform	1
Thermo Fisher Scientific Inc. (TMO)	Outperform	2
Abbott Laboratories (ABT)	Neutral	3
Becton, Dickinson and Company (BDX)	Neutral	3
BioRad Laboratories, Inc. (BIO)	Neutral	2
PerkinElmer, Inc. (PKI)	Neutral	3
Illumina, Inc. (ILMN)	Underperform	5

The positions listed should not be deemed a recommendation to buy, hold or sell.

Industry Comparison Industry: Medical - Instruments				Industry Peers		
	LMNX	X Industry	S&P 500	BDX	ILMN	TMO
Zacks Recommendation (Long Term)	Neutral	-	-	Neutral	Underperform	Outperform
Zacks Rank (Short Term)	3	-	-	3	5	2
VGM Score	B	-	-	C	F	B
Market Cap	1.22 B	146.70 M	22.94 B	65.35 B	44.60 B	171.82 B
# of Analysts	4	2	14	12	8	9
Dividend Yield	1.37%	0.00%	1.66%	1.40%	0.00%	0.20%
Value Score	C	-	-	C	F	C
Cash/Price	0.25	0.12	0.08	0.05	0.07	0.03
EV/EBITDA	58.96	-1.18	13.09	19.53	29.91	26.58
PEG F1	2.15	3.97	2.88	2.86	9.95	1.78
P/B	2.38	3.41	3.23	2.72	9.84	5.75
P/CF	61.35	22.76	12.78	10.85	37.11	24.02
P/E F1	32.21	50.77	21.16	22.75	69.63	27.52
P/S TTM	3.29	4.23	2.46	3.86	13.31	6.55
Earnings Yield	3.09%	-3.09%	4.47%	4.40%	1.44%	3.63%
Debt/Equity	0.39	0.07	0.70	0.71	0.14	0.69
Cash Flow (\$/share)	0.43	-0.13	6.92	20.77	8.23	18.08
Growth Score	A	-	-	B	C	B
Historical EPS Growth (3-5 Years)	-26.00%	8.58%	10.43%	10.16%	20.27%	14.10%
Projected EPS Growth (F1/F0)	485.71%	5.55%	-4.22%	-15.17%	-33.22%	27.78%
Current Cash Flow Growth	-57.32%	6.70%	5.47%	14.64%	13.10%	6.99%
Historical Cash Flow Growth (3-5 Years)	-15.21%	10.08%	8.52%	24.86%	16.75%	10.08%
Current Ratio	7.25	3.08	1.35	1.45	3.76	2.62
Debt/Capital	28.19%	14.28%	42.91%	41.57%	12.62%	40.86%
Net Margin	3.04%	-25.57%	10.28%	5.30%	20.67%	14.12%
Return on Equity	2.38%	-22.08%	14.73%	14.19%	19.13%	18.18%
Sales/Assets	0.62	0.52	0.50	0.32	0.46	0.45
Projected Sales Growth (F1/F0)	26.10%	0.00%	-1.38%	-2.75%	-12.73%	12.53%
Momentum Score	D	-	-	F	D	B
Daily Price Change	1.20%	0.00%	-0.65%	0.19%	0.01%	1.39%
1-Week Price Change	-0.16%	-1.00%	-2.32%	-3.37%	1.49%	-1.58%
4-Week Price Change	0.04%	-0.30%	-3.62%	-6.40%	-12.17%	0.14%
12-Week Price Change	-19.00%	-1.04%	5.10%	-10.32%	-17.90%	14.23%
52-Week Price Change	30.84%	-1.20%	0.81%	-10.06%	3.20%	51.13%
20-Day Average Volume (Shares)	568,729	187,837	2,111,139	1,621,816	2,239,165	1,322,368
EPS F1 Estimate 1-Week Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
EPS F1 Estimate 4-Week Change	0.00%	0.00%	0.00%	-0.10%	0.01%	3.89%
EPS F1 Estimate 12-Week Change	367.31%	7.04%	4.21%	-4.82%	-28.38%	28.80%
EPS Q1 Estimate Monthly Change	0.00%	0.00%	0.00%	-2.65%	-0.60%	7.61%

Source: Zacks Investment Research

Zacks Stock Rating System

We offer two rating systems that take into account investors' holding horizons: Zacks Rank and Zacks Recommendation. Each provides valuable insights into the future profitability of the stock and can be used separately or in combination with each other depending on your investment style.

Zacks Recommendation

The Zacks Recommendation aims to predict performance over the next 6 to 12 months. The foundation for the quantitatively determined Zacks Recommendation is trends in the company's estimate revisions and earnings outlook. The Zacks Recommendation is broken down into 3 Levels; Outperform, Neutral and Underperform. Unlike many Wall Street firms, we maintain a balance between the number of Outperform and Neutral recommendations. Our team of 70 analysts are fully versed in the benefits of earnings estimate revisions and how that is harnessed through the Zacks quantitative rating system. But we have given our analysts the ability to override the Zacks Recommendation for the 1200 stocks that they follow. The reason for the analyst over-rides is that there are often factors such as valuation, industry conditions and management effectiveness that a trained investment professional can spot better than a quantitative model.

Zacks Rank

The Zacks Rank is our short-term rating system that is most effective over the one- to three-month holding horizon. The underlying driver for the quantitatively-determined Zacks Rank is the same as the Zacks Recommendation, and reflects trends in earnings estimate revisions.

Zacks Style Scores

The Zacks Style Score is as a complementary indicator to the Zacks rating system, giving investors a way to focus on the highest rated stocks that best fit their own stock picking preferences.

Academic research has proven that stocks with the best Value, Growth and Momentum characteristics outperform the market. The Zacks Style Scores rate stocks on each of these individual styles and assigns a rating of A, B, C, D and F. We also produce the VGM Score (V for Value, G for Growth and M for Momentum), which combines the weighted average of the individual Style Scores into one score. This is perfectly suited for those who want their stocks to have the best scores across the board.

Value Score	C
Growth Score	A
Momentum Score	D
VGM Score	B

As an investor, you want to buy stocks with the highest probability of success. That means buying stocks with a Zacks Recommendation of Outperform, which also has a Style Score of an A or a B.

Disclosures

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Investing involves risk; principal loss is possible. There is no guarantee that companies that can issue dividends will declare, continue to pay or increase dividends.

Glossary of Terms and Definitions

52-Week High-Low: The range of the highest and lowest prices at which a stock has traded during the past year. This range is determined based on the stock's daily closing price which may differ from the intra-day high or low. Many investors use it as a technical indicator to determine a stock's current value and future price movement. The idea here is that if price breaks out from the 52-week range, in either direction, the momentum may continue in the same direction.

20-Day Average Volume (Shares): The average number of shares of a company traded in a day over the last 20 days. It is a direct indication of a security's overall liquidity. The higher the average daily trading volume, the easier it is to enter or exit the stock at a desired price with more buyers and sellers being available.

Daily Price Change: This is the percentage difference between a trading day's closing price and the prior trading day's closing price. This item is updated at 9 p.m. EST each day.

1-Week Price Change: This is the percentage change in a stock's closing price over the last 5 trading days. This change reflects the collective buying and selling sentiment over the 1-week period.

A strong weekly price increase for the stock, especially when accompanied by increased volume, is an indication of it gaining momentum.

4-Week Price Change: This is the percentage change in a stock's closing price over the last 20 trading days or past 4 weeks. This is a medium-term price change metric and an indication of the stock gaining momentum.

12-Week Price Change: This is the percentage change of a stock's closing price over the last 60 trading days or past 12 weeks. Similar to 4-week price change, this is a medium-term price change metric. It shows whether a stock has been enjoying strong investor demand, or if it has been in consolidation, or distress over this period.

52-Week Price Change: This is the percentage change in a stock's closing price over the last 260 trading days or past 52 weeks. This long-term price change metric is a good reference point for investors. Some investors seek stocks with the best percentage price change over the last 52 weeks, expecting the momentum to continue.

Market Cap: The number of outstanding common shares of a company times its latest price per share. This figure represents a company's size, which indicates various characteristics, including price stability and risk, in which investors could be interested.

Year-To-Date Price Change: Change in a stock's daily closing price in the period of time beginning the first day of the current calendar year through to the previous trading day.

of Analysts: Number of EPS estimates used in calculating the current-quarter consensus. These estimates come from the brokerage analysts tracking this stock. However, the number of such analysts tracking this stock may not match the number of estimates, as all brokerage analysts may not come up with an estimate or provide it to us.

Beta: A measure of risk commonly used to compare the volatility of a stock to the overall market. The S&P 500 Index is the base for calculating beta and carries a value of 1. A stock with beta below 1 is less risky than the market as a whole. And a stock with beta above 1 is riskier.

Dividend: The portion of earnings a company is expected to distribute to its common shareholders in the next 12 months for each share they own. Dividends are usually paid quarterly. Dividend payments reflect positively on a company and help maintain investors' trust. Investors typically find dividend-paying stocks appealing because the dividend adds to any market price appreciation to result in higher return on investment (ROI). Moreover, a steady or increasing dividend payment provides investors a cushion in a down market.

Dividend Yield: The ratio of a company's annual dividend to its share price. The annual dividend used in the ratio is calculated based on the most recent dividend paid by the company. Dividend yield is an estimate of the dividend-only return from a stock in the next 12 months. Since dividend itself doesn't change frequently, dividend yield usually changes with a stock's price movement. As a result, often an unusually high dividend yield is a result of weak stock price.

S&P 500 Index: The Standard & Poor's 500 (S&P 500) Index is an unmanaged group of securities considered to be representative of the stock market in general. It is a market-capitalization-weighted index of stocks of the 500 largest U.S. companies. Each stock's weight in the index is proportionate to its market value.

Industry: One of the 250+ groups that Zacks classifies all stocks into based on the nature of business. These groups are termed as expanded (aka "X") industries and map to their respective (economic) sectors; Zacks has 16 sectors.

Zacks Industry Rank: The Zacks Industry Rank is determined by calculating the average Zacks Rank for all stocks in the industry and then assigning an ordinal rank to it. For example, an industry with an average Zacks Rank of 1.6 is better than an industry with an average Zacks Rank of 2.3. So, the industry with the better average Zacks Rank would get a better Zacks Industry Rank. If an industry has the best average Zacks Rank, it would be considered the top industry (1 out of 250+), which would place it at the top 1% of Zacks-ranked industries. Studies have shown that roughly half of a stock's price movement can be attributed to the industry group it belongs to. In fact, the top 50% of Zacks-ranked industries outperforms the bottom 50% by a factor of more than 2 to 1.

Last EPS Surprise: The percentage deviation of a company's last reported earnings per share from the Zacks Consensus Estimate. Companies with a positive earnings surprise are more likely to surprise again in the future (or miss again if they recently missed).

Last Sales Surprise: The percentage deviation of a company's last reported sales from the Zacks Consensus Estimate.

Expected Report Date: This is an estimated date of a company's next earnings release. The information originated or gathered by Zacks Investment Research from its information providers or publicly available sources is the basis of this estimate.

Earnings ESP: The Zacks Earnings ESP compares the Most Accurate Estimate to the Zacks Consensus Estimate for the yet-to-be reported quarter. The Most Accurate Estimate is the most recent version of the Zacks Consensus EPS Estimate. The idea here is that analysts revising their estimates closer to an earnings release have the latest information, which could potentially be more accurate than what they and others contributing to the consensus had predicted earlier. Thus, a positive or negative Earnings ESP reading theoretically indicates the likely deviation of the actual earnings from the consensus estimate. However, the model's predictive power is significant for positive ESP readings only. A positive Earnings ESP is a strong predictor of an earnings beat, particularly when combined with a Zacks Rank #1 (Strong Buy), #2 (Buy) or #3 (Hold). Our research shows that stocks with this combination produce a positive surprise nearly 70% of the time.

Periods:

TTM: Trailing 12 months. Using TTM figures is an effective way of analyzing the most-recent financial data in an annualized format that helps neutralize the effects of seasonality and other quarter-to-quarter variation.

F1: Current fiscal year. This period is used to analyze the estimates for the ongoing full fiscal year.

F2: Next fiscal year. This period is used to analyze the estimates for the next full fiscal year.

F12M: Forward 12 months. Using F12M figures is an effective way of analyzing the near-term (the following four unreported quarters) estimates in an annualized manner. Instead of typically representing estimates for the full fiscal year, which may not represent the nitty-gritty of each quarter, F12M figures suggest an all-inclusive annualized estimate for the following four quarters. The annualization helps neutralize the potential effects of seasonality and other quarter-to-quarter variations.

P/E Ratio: The price-to-earnings ratio measures a company's current market price per share relative to its earnings per share (EPS). Usually, the trailing-12-month (TTM) EPS, current-fiscal-year (F1) EPS estimate, or forward-12-month (F12M) EPS estimate is used as the denominator. In essence, this ratio shows what the market is willing to pay today for each dollar of EPS. In other words, this ratio gives a sense of what the relative value of the company is at the already reported level of earnings or at a future level of earnings.

It is one of the most widely-used multiples for determining the value of a company and helps comparing its valuation with that of a competitor, the industry group or a benchmark.

PEG Ratio: The price/earnings to growth ratio is a stock's P/E ratio using current fiscal year (F1) EPS estimate divided by its expected EPS growth rate over the coming 3 to 5 years. This ratio essentially determines a stock's value by factoring in the company's expected earnings growth and is thus believed to provide a more complete picture than just the P/E ratio, particularly for faster-growing companies.

P/S Ratio: The price-to-sales ratio is calculated as a company's current price per share divided by trailing 12 months (TTM) sales or revenues per share. This ratio shows what the market is willing to pay today for each dollar of TTM sales per share. The P/S ratio is at times the only valuation metric when the company has yet to become profitable.

Cash/Price Ratio: The cash-to-price ratio or Cash Yield is calculated as cash and marketable securities per share divided by the company's current share price. Like the earnings yield, which shows the anticipated yield (or return) on a stock from earnings for each dollar invested, the cash yield does the same, with cash being the source of return instead of earnings. For example, a cash/price ratio of 0.08 suggests a return of 8% or 8 cents for every \$1 investment.

EV/EBITDA Ratio: The EV/EBITDA ratio, also known as Enterprise Multiple, is calculated as a company's enterprise value (market capitalization + value of total long-term debt + book value of preferred shares - cash and marketable securities) divided by EBITDA (earnings before interest, taxes, depreciation and amortization). Usually, trailing-12-month (TTM) or forward-12-month (F12M) EBITDA is used as the denominator.

EV/Sales Ratio: The enterprise value-to-sales ratio is calculated as a company's enterprise value (market capitalization + value of total long-term debt + book value of preferred shares - cash and marketable securities) divided by annual sales. It is an expansion of the P/S valuation, which uses market value instead of enterprise value. The EV/Sales ratio is perceived as more accurate than P/S, in part, because the market capitalization does not take a company's debt into account when valuing it.

EV/CF Ratio: The enterprise value-to-cash flow ratio is calculated as a company's enterprise value (market capitalization + value of total long-term debt + book value of preferred shares - cash and marketable securities) divided by the trailing-12-month (TTM) operating cash flow. It's a measure of how long it would take to buy the entire business if you were able to use all the company's operating cash flow.

The EV/CF ratio is perceived as more accurate than the P/CF ratio, in part, because the market price does not take a company's debt into account when valuing it.

EV/FCF Ratio: The enterprise value-to-free cash flow metric compares a company's enterprise value to its trailing-12-month (TTM) free cash flow (FCF). This metric is very similar to the EV/CF ratio, but is considered a more exact measure owing to the fact that it uses free cash flow, which subtracts capital expenditures (CAPEX) from a company's total operating cash flow, thereby reflecting the actual cash flow available for funding growth activities and payments to shareholders.

P/EBITDA Ratio: The P/EBITDA ratio is calculated as a company's per share market value divided by EBITDA (earnings before interest, taxes, depreciation, and amortization). This metric is very similar to the EV/EBITDA ratio, but is considered a little less exact measure as it uses market price, which does not take a company's debt into account. However, since EBITDA is often considered a proxy for cash income, the metric is used as a measure of what the market is willing to pay today for each dollar of the company's cash profitability in the trailing 12 months (TTM) or forward 12 months (F12M).

P/B Ratio: The price-to-book ratio is calculated as a company's current price per share divided by its book value (total assets – liabilities – preferred stocks) per share. In short, the book value is how much a company is worth. In other words, it reflects the total value of a company's assets that its common shareholders would receive if it were to be liquidated. So, the P/B ratio indicates whether you're paying higher or lower than what would remain if the company went bankrupt immediately. Investors typically use this metric to determine how a company's stock price stacks up to its intrinsic value.

P/TB Ratio: The price-to-tangible-book value ratio is calculated as the per share market value of a company divided by the value of its tangible assets (total assets – liabilities – preferred stocks – intangible assets) per share. Tangible book value is the same thing as book value except it excludes the value of intangible assets to get a step closer to the baseline value of the company.

P/CF Ratio: The price-to-cash flow ratio measures a company's per share market price relative to its trailing-12-month (TTM) operating cash flow per share. This metric is used to determine whether a company is undervalued or overvalued relative to another stock, industry or sector. And like the P/E ratio, a lower number is typically considered better from the value perspective.

One of the reasons why P/CF ratio is often preferred over P/E ratio is the fact that operating cash flow adds back non-cash expenses such as depreciation and amortization to net income. This feature helps valuing stocks that have positive cash flow but are not profitable because of large noncash charges.

P/FCF Ratio: The price-to-free cash flow ratio is an extension of P/CF ratio, which uses trailing-12-month (TTM) free cash flow per share instead of operating cash flow per share. This metric is considered a more exact measure than P/CF ratio, as free cash flow subtracts capital expenditures (CAPEX) from a company's total operating cash flow, thereby reflecting the actual cash flow available for funding activities that generate additional revenues.

Earnings Yield: The earnings yield is calculated as current fiscal year (F1) EPS estimate divided by the company's current share price. The ratio, which is the inverse of the P/E ratio, measures the anticipated yield (or return) from earnings for each dollar invested in a stock today.

For example, earnings yield for a stock, which is trading at \$35 and expected to earn \$3 per share in the current fiscal year (F1), would be 0.0857 ($3/35 = 0.0857$) or 8.57%. In other words, for \$1 invested in the stock today, the yield from earnings is anticipated to be 8.57 cents.

Investors most commonly compare the earnings yield of a stock to that of a broad market index (such as the S&P 500) and prevailing interest rates, such as the current 10-year Treasury yield. Since bonds and stocks compete for investors' dollars, stock investors typically demand a higher yield for the extra risk they assume compared to investors of U.S. Treasury-backed securities that offer virtually risk-free returns. This additional return is referred to as the risk premium.

Debt/Equity Ratio: The debt-to-equity ratio is calculated as a company's total liabilities divided by its shareholder equity. This metric is used to gauge a company's financial leverage. In other words, it is a measure of the degree to which a company is financing its operations through debt versus its own funds. The higher the ratio, the higher the risk for shareholders.

However, this ratio is difficult to compare across industry groups where ideal amounts of debt vary. Some businesses are more capital intensive than others and typically require higher debt to finance their operations. So, a company's debt-to-equity ratio should be compared with other companies in the same industry.

Cash Flow (\$/share): Cash flow per share is calculated as operating cash flow (after-tax earnings + depreciation + other non-cash charges) divided by common shares outstanding. It is used by many investors as a measure of a company's financial strength. Since cash flow per share takes into consideration a company's ability to generate cash by adding back non-cash expenses, it is regarded by some as a more accurate measure of a company's financial situation than earnings per share, which could be artificially deflated.

Current Ratio: The current ratio or liquidity ratio is a company's current assets divided by its current liabilities. It measures a company's ability to pay short-term obligations. A current ratio that is in line with the industry average or slightly higher is generally considered acceptable. A current ratio that is lower than the industry average would indicate a higher risk of distress or default. A higher number is usually better. However, a very high current ratio compared to the industry average could be an indication of inefficient use of assets by management.

Debt/Capital Ratio: Debt-to-capital ratio is a company's total debt (interest-bearing debt + both short- and long-term liabilities) divided its total capital (interest-bearing debt + shareholders' equity). It is a measure of a company's financial leverage. All else being equal, the higher the debt-to-capital ratio, the riskier the stock.

However, this ratio can vary widely from industry to industry, the ideal amount of required debt being different. Some businesses are more capital intensive than others and typically require higher debt to finance their operations. So, a company's debt-to-capital ratio should be compared with the same for its industry.

Net Margin: Net margin is calculated as net income divided by sales. It shows how much of each dollar in sales generated by a company translates into profit. For example, if a company's net margin is 15%, its net income is 15 cents for every \$1 of sales it makes.

A change in margin can reflect either a change in business conditions, or a company's cost controls, or both. If a company's expenses are growing faster than sales, its net margin will decline. However, different net margin rates are considered good for different industries, so it's better to compare net margin rates of companies in the same industry group.

Return on Equity: Return on equity (ROE) is calculated as trailing-12-month net income divided by trailing-12-month average shareholder equity (including reinvested earnings). This metric is considered a measure of how effectively management is using a company's assets to generate profits. For example, if a company's ROE is 10%, it creates 10 cents profits for every \$1 shareholder equity, which is basically the company's assets minus debt. A company's ROE deemed good or bad depends on what's normal for its peers or industry group.

Sales/Assets Ratio: The sales-to-assets ratio or asset utilization ratio or asset turnover ratio is calculated as a company's annual sales divided by average assets (average of assets at the beginning of the year and at the year's end). This metric helps investors understand how effectively a company is using its assets to generate sales. For example, a sales-to-assets ratio of 2.5 indicates that the company generated \$2.50 in sales for every \$1 of assets on its books.

The higher the sales-to-assets ratio, the better the company is performing. However, similar to many other ratios, the asset turnover ratio tends to be higher for companies in certain industries/sectors than in others. So, a company's sales-to-assets ratio should be compared with the same for its industry/sector.

Historical EPS Growth (3-5 Years): This is the average annual (trailing-12-month) EPS growth rate over the last 3-5 years. This metric helps investors see how a company's EPS has grown from a long-term perspective.

Note: There are many factors that can influence short-term numbers — a recession will reduce this number, while a recovery will inflate it. The longterm perspective helps smooth out short-term events.

Projected EPS Growth (F1/F0): This is the estimated EPS growth rate for the current financial year. It is calculated as the consensus estimate for the current fiscal year (F1) divided by the reported EPS for the last completed fiscal year (F0).

Current Cash Flow Growth: It measures the latest year-over-year change in operating cash flow. Cash flow growth tells an investor how quickly a company is generating inflows of cash from operations. A positive change in the cash flow is desired and shows that more 'cash' is coming in than going out.

Historical Cash Flow Growth (3-5 Years): This is the annualized change in cash flow over the last 3-5 years. The change in a longer period helps put the current reading into proper perspective. By looking at the rate, rather than the actual dollar value, the comparison across the industry and peers becomes easier.

Projected Sales Growth (F1/F0): This metric looks at the estimated sales growth for the current year. It is calculated as sales estimate for the current fiscal year (F1) divided by the reported sales for the last completed fiscal year (F0).

Like EPS growth, a higher rate is better for sales growth. A look at a company's projected sales growth instantly tells you what the outlook is for their products and services. However, different sales growth rates are considered good for different industries, so it's better to compare sales growth rates of companies in the same industry group.

EPS F1 Estimate 1-Week Change: The percentage change in the Zacks Consensus EPS estimate for the current fiscal year over the past week. The change in a company's consensus EPS estimate (or earnings estimate revision) has proven to be strongly correlated with the near-term price movement of its shares. It is an integral part of the Zacks Rank.

If a stock's consensus EPS estimate is \$1.10 now versus \$1.00 a week ago, that will be reflected as a 10% upward revision. If, on the other hand, it went from \$1.00 to 90 cents, that would be a 10% downward revision.

EPS F1 Estimate 4-Week Change: The percentage change in the Zacks Consensus EPS estimate for the current fiscal year over the past four weeks.

A stock's earnings estimate revision in a 1-week period is important. But it's more meaningful to look at the longer-term revision. And, of course, the 4-week change helps put the 1-week change into proper perspective.

EPS F1 Estimate 12-Week Change: The percentage change in the Zacks Consensus EPS estimate for the current fiscal year over the past 12 weeks.

This metric essentially shows how the consensus EPS estimate has changed over a period longer than 1 week or 4 weeks.

EPS Q1 Estimate Monthly Change: The percentage change in the Zacks Consensus EPS estimate for the current fiscal quarter over the past four weeks.

While the revision in consensus EPS estimate for the current fiscal year is strongly correlated with the near-term price movement of its shares, the estimate revision for the current fiscal quarter is an important metric as well, especially over the short term, and particularly as a stock approaches its earnings date. If a stock's Q1 EPS estimate decreases ahead of its earnings release, it's usually a negative sign, whereas an increase is a positive sign.