

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549

FORM F-3
REGISTRATION STATEMENT UNDER THE SECURITIES ACT OF 1933

Rail Vision Ltd.

(Exact name of registrant as specified in its charter)

Not Applicable

(Translation of Registrant's Name into English)

Israel

(State or other jurisdiction of
incorporation or organization)

7372

(Primary Standard Industrial
Classification Code Number)

Not Applicable

(I.R.S. Employer
Identification No.)

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Approximate date of commencement of proposed sale to the public: From time to time after the effective date of this Registration Statement.

If the only securities being registered on this Form are being offered pursuant to dividend or interest reinvestment plans, please check the following box.

If any of the securities being registered on this Form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, check the following box.

If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, please check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a registration statement pursuant to General Instruction I.C. or a post-effective amendment thereto that shall become effective upon filing with the Commission pursuant to Rule 462(e) under the Securities Act, check the following box.

If this Form is a post-effective amendment to a registration statement filed pursuant to General Instruction I.C. filed to register additional securities or additional classes of securities pursuant to Rule 413(b) under the Securities Act, check the following box.

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933.

Emerging growth company

If an emerging growth company that prepares its financial statements in accordance with U.S. GAAP, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards[†] provided pursuant to Section 7(a)(2)(B) of the Securities Act.

[†] The term “new or revised financial accounting standard” refers to any update issued by the Financial Accounting Standards Board to its Accounting Standards Codification after April 5, 2012.

The Registrant hereby amends this Registration Statement on such date or dates as may be necessary to delay its effective date until the Registrant shall file a further amendment which specifically states that this Registration Statement shall thereafter become effective in accordance with Section 8(a) of the Securities Act of 1933 or until this Registration Statement shall become effective on such date as the Securities and Exchange Commission, acting pursuant to said Section 8(a), may determine.

The information in this prospectus is not complete and may be changed. We may not sell these securities until the registration statement filed with the Securities and Exchange Commission is effective. This prospectus is not an offer to sell securities and it is not soliciting an offer to buy securities in any state where the offer or sale is not permitted.

Subject to Completion, Dated April 3, 2023

PROSPECTUS



\$50,000,000

RAIL VISION LTD.

**Ordinary Shares
Warrants
Units**

We may offer and sell from time to time in one or more offerings up to a total amount of \$50,000,000 of our ordinary shares, par value NIS 0.01 per share, or the Ordinary Shares, warrants to purchase Ordinary Shares or units comprising a combination of Ordinary Shares and warrants. Each time we sell securities pursuant to this prospectus, we will provide in a supplement to this prospectus the price and any other material terms of any such offering. We may also authorize one or more free writing prospectuses to be provided to you in connection with each offering. Any prospectus supplement and related free writing prospectuses may also add, update or change information contained in the prospectus. You should read this prospectus, any applicable prospectus supplement and related free writing prospectuses, as well as the documents incorporated by reference or deemed incorporated by reference into this prospectus, carefully before you invest in the securities.

The Ordinary Shares are traded on the Nasdaq Capital Market under the symbol "RVSN."

Investing in the securities involves a high degree of risk, including that the trading price of Ordinary Shares has been subject to volatility and investors in this offering may not be able to sell their Ordinary Shares above the actual offering price or at all. Risks associated with an investment in the securities will be described in any applicable prospectus supplement and are and will be described in certain of our filings with the Securities and Exchange Commission, or SEC, as described in "Risk Factors" on page 2.

The securities may be sold directly by us to investors, through agents designated from time to time or to or through underwriters or dealers, or through a combination of such methods, on a continuous or delayed basis. For additional information on the methods of sale, you should refer to the section entitled "Plan of Distribution" in this prospectus. If any agents or underwriters are involved in the sale of the securities with respect to which this prospectus is being delivered, the names of such agents or underwriters and any applicable fees, commissions, discounts and over-allotment options will be set forth in a prospectus supplement. The price to the public of the securities and the net proceeds that we expect to receive from such sale will also be set forth in a prospectus supplement.

Neither the Securities and Exchange Commission nor any state or other securities commission has approved or disapproved of these securities or determined if this prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

The date of this prospectus is _____, 2023

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ABOUT THIS PROSPECTUS

This prospectus is part of a registration statement on Form F-3 that we filed with the U.S. Securities and Exchange Commission, or the SEC, utilizing a “shelf” registration process. Under this shelf registration process, we may offer from time to time up to an aggregate of \$50,000,000 of the Ordinary Shares, warrants or units comprising a combination of Ordinary Shares and warrants in one or more offerings. We sometimes refer to the Ordinary Shares, warrants and units as the “securities” throughout this prospectus.

Each time we sell securities, we will provide you with a prospectus supplement that will describe the specific amounts, prices and terms of such offering. We may also authorize one or more free writing prospectuses to be provided to you in connection with such offering. The prospectus supplement and any related free writing prospectuses may also add, update or change information contained in this prospectus. You should read carefully both this prospectus, the applicable prospectus supplement and any related free writing prospectus together with additional information described below under “Incorporation of Certain Information by Reference” and “Where You Can Find Additional Information” before buying the securities being offered.

This prospectus does not contain all of the information provided in the registration statement that we filed with the SEC. For further information about us or the securities, you should refer to that registration statement, which you can obtain from the SEC as described below under “Incorporation of Certain Information by Reference” and “Where You Can Find Additional Information.”

You should rely only on the information contained or incorporated by reference in this prospectus, a prospectus supplement and related free writing prospectuses. We have not authorized any other person to provide you with different information. If anyone provides you with different or inconsistent information, you should not rely on it. This prospectus is not an offer to sell these securities and it is not soliciting an offer to buy these securities in any jurisdiction where the offer or sale is not permitted. You should not assume that the information contained in this prospectus and the accompanying prospectus supplement or related free writing prospectuses is accurate on any date subsequent to the date set forth on the front of the document or that any information that we have incorporated by reference is correct on any date subsequent to the date of the document incorporated by reference. Our business, financial condition, results of operations and prospects may have changed since those dates.

In this prospectus, “we,” “us,” “our,” the “Company” and “Rail Vision” refer to Rail Vision Ltd., an Israeli corporation.

OUR COMPANY

We are a development stage technology company that is seeking to revolutionize railway safety and the data-related market. We believe we have developed cutting edge, AI based, industry-leading detection technology specifically designed for railways, with investments from Knorr-Bremse, a world-class rail system manufacturer. We have developed our railway detection and systems to save lives, increase efficiency, and dramatically reduce expenses for the railway operator. We believe that our technology will significantly increase railway safety around the world, while creating significant benefits and adding value to everyone who relies on the train ecosystem: from passengers using trains for transportation to companies that use railways to deliver goods and services. In addition, we believe that our technology has the potential to advance the revolutionary concept of autonomous trains into a practical reality.

The increasing electrification and automation of railways and trains are two key factors that are driving growth in the transportation market. Autonomous trains are integrated with advanced systems to provide improved control over the train for stopping, departing and movement between train stations – for example the operators are aiming to increase the density on a given track that's to say more trains per kilometer. From everyday passengers to train operators, there is a rising demand for safe, secure, and efficient transport systems. Additionally, various technological advancements, such as the integration of the Internet of Things, or IoT, and artificial intelligence, or AI, solutions into railway detection systems, are market categories expected to grow in the coming years. These technologies aid in improving the overall operational efficiency and maintaining freight operations and systems.

Autonomous trains, also known as driverless trains, are operated automatically without any human intervention, and are monitored from the control station when communication is available. In case of any obstacle incurred in the route, the obstacle detection system commands the train to stop and in parallel a message is sent to operational control center and to the attendant on the train if any, to further command the train. Owing to increase in traffic congestion on road network, the need for smart and frequent trains has boosted the growth of the global market. According to Allied Market Research, the autonomous train technology market was valued at \$5.88 billion in 2018, and is projected to reach \$15.57 billion by 2026, growing at a CAGR of 12.9% from 2019 to 2026.

Since our founding in April 2016, we have developed unique railway detection systems for railway safety, based on image processing and deep learning technologies that provide early warnings to train driver of hazards on and around the railway track, including during severe weather and in all lighting conditions. Our unique system uses special high resolution cameras to identify objects up to 2,000 meters away, along with a computer unit that uses AI machine learning algorithms to analyze the images, identify objects on or near the tracks, and warn the train driver of the obstacle and potential danger. In 2017, we were recognized as the winner of Deutsche Bahn's MINDBOX competition for our automated early warning systems to prevent railway accidents.

Our railway detection system includes different types of cameras, including optics, visible light spectrum cameras (video) and thermal cameras that transmit data to a ruggedized on-board computer which is designed to be suitable for the rough environment of a train's locomotive. Our railway detection and classification system includes an image-processing and machine-learning algorithm that processes the data for identifying potential hazards on and around the track. These algorithms are designed to identify and classify objects such as people, animals, vehicles, signs, signals along the track, and anomalies. Our railway detection system actively classifies objects by severity to determine if an alarm should be signaled to the train driver. These data collection and classification capabilities can be extended to further use-cases such as predictive maintenance and big-data analyses.

We believe that our technology demonstrates capabilities and results that are better than existing solutions. Most of the currently available safety solutions for the railway industry focus on stationary systems in dedicated hazardous locations, such as at level track crossings and passenger train stations, among others. At these dedicated locations, different technologies are used for detecting obstacles that are on the vicinity of level crossing tracks, and usually include different cameras and radars. The problem with this type of solution is that the train is only monitored at specific points in the railroad junction, leaving the vast majority of the railway unprotected. In addition, even when detected something on the level crossing tracks, the message has to be transmitted in a way that the driver would be able to react on time. In recognition of the limitations of existing solutions, we integrate a collision avoidance system using long-range real-time AI and electro-optics technologies on trains that is designed to address this unmet need, as well as providing solutions to most of the challenges train operators face during transit such as collisions, derailments and other accidents caused by obstacles on tracks, or poor infrastructure.

RISK FACTORS

Investing in our securities involves significant risks. Before making an investment decision, you should carefully consider the risks described under the summary above, under “Risk Factors” in the applicable prospectus supplement and under Item 3.D. - “Risk Factors” in our most recent Annual Report on Form 20-F, or any updates in our Reports on Form 6-K, together with all of the other information appearing in this prospectus or incorporated by reference into this prospectus and any applicable prospectus supplement, in light of your particular investment objectives and financial circumstances. The risks so described are not the only risks facing us. Additional risks not presently known to us or that we currently deem immaterial may also impair our business operations. Our business, financial condition and results of operations could be materially adversely affected by any of these risks. The trading price of our securities could decline due to any of these risks, and you may lose all or part of your investment. The discussion of risks includes or refers to forward-looking statements; you should read the explanation of the qualifications and limitations on such forward-looking statements discussed elsewhere in this prospectus.

NOTE REGARDING FORWARD-LOOKING STATEMENTS

This prospectus contains, and any accompanying prospectus supplement will contain, forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, or the Securities Act, and Section 21E of the Securities Exchange Act of 1934, as amended, or the Exchange Act, and the Private Securities Litigation Reform Act of 1995. Also, documents that we incorporate by reference into this prospectus, including documents that we subsequently file with the SEC, contain and will contain forward-looking statements. Forward-looking statements are those that predict or describe future events or trends and that do not relate solely to historical matters. You can generally identify forward-looking statements as statements containing the words “may,” “will,” “could,” “should,” “expect,” “anticipate,” “objective,” “goal,” “intend,” “estimate,” “believe,” “project,” “plan,” “assume” or other similar expressions, or negatives of those expressions, although not all forward-looking statements contain these identifying words. All statements contained or incorporated by reference in this prospectus and any prospectus supplement regarding our future strategy, future operations, projected financial position, proposed products, anticipated collaborations, estimated future revenues, projected costs, future prospects, the future of our industry and results that might be obtained by pursuing management’s current plans and objectives, are forward-looking statements.

You should not place undue reliance on our forward-looking statements because the matters they describe are subject to certain risks, uncertainties and assumptions, including in many cases decisions or actions by third parties, that are difficult to predict. Our forward-looking statements are based on the information currently available to us and speak only as of the date on the cover of this prospectus, the date of any prospectus supplement, or, in the case of forward-looking statements incorporated by reference, the date of the filing that includes the statement. Over time, our actual results, performance or achievements may differ from those expressed or implied by our forward-looking statements, and such difference might be significant and materially adverse to our security holders. We undertake no obligation to update publicly any forward-looking statements, whether as a result of new information, future events or otherwise.

We have identified some of the important factors that could cause future events to differ from our current expectations and they are described in this prospectus and supplements to this prospectus (if any) under the caption “Risk Factors,” as well as in our most recent Annual Report on Form 20-F, including without limitation under the captions “Risk Factors” and “Operating and Financial Review and Prospects,” and in other documents that we may file with the SEC, all of which you should review carefully. Please consider our forward-looking statements in light of those risks as you read this prospectus, the documents incorporated by reference herein, and any prospectus supplement.

OFFER STATISTICS AND EXPECTED TIMETABLE

We may sell from time to time pursuant to this prospectus (as may be detailed in prospectus supplements) an indeterminate number of securities as shall have a maximum aggregate offering price of \$50,000,000. The actual per share price of the securities that we will offer pursuant hereto will depend on a number of factors that may be relevant as of the time of offer (see “Plan of Distribution” below).

CAPITALIZATION

The following table sets forth our capitalization as of December 31, 2022. The information in this table is derived from our audited financial information as of December 31, 2022, and should be read in conjunction with and is qualified by reference to such financial information and other financial information incorporated by reference into this prospectus.

| <i>U.S. dollars in thousands</i> | As of December 31, 2022 |
|----------------------------------|--|
| Cash and cash equivalents | \$ 8,270 |
| Shareholders' equity: | |
| Ordinary shares | 46 |
| Additional paid in capital | 63,033 |
| Accumulated deficit | (54,814) |
| Total shareholders' equity | 8,265 |
| Total capitalization | 8,265 |

USE OF PROCEEDS

Unless otherwise set forth in the related prospectus supplement or, if applicable, the pricing supplement, we intend to use the net proceeds from the sale of securities offered through this prospectus for general corporate purposes, which include financing our operations, capital expenditures and business development, and for pursuing strategic opportunities, including, but not limited to, strategic acquisitions. The specific purpose of any individual issuance of securities will be described in the related prospectus supplement.

TAXATION

The material Israeli and U.S. federal income tax consequences relating to the purchase, ownership and disposition of any of the securities offered by this prospectus may be set forth in the prospectus supplement offering those securities or incorporated by reference from our Annual Report on Form 20-F or other public filings we make with the SEC.

DESCRIPTION OF SHARE CAPITAL

The following description of our share capital is a summary of the material terms of our Articles and Israeli corporate law regarding our ordinary shares and the holders thereof. This description contains all material information concerning our ordinary shares but does not purport to be complete.

Ordinary Shares

As of March 31, 2023, our authorized share capital consisted of 100,000,000 Ordinary Shares, par value NIS 0.01 per share, of which 16,091,458 Ordinary Shares were issued and outstanding as of such date. Our Ordinary Shares are not redeemable and are not subject to any preemptive right.

In addition to Ordinary Shares, in the last three years, we have issued warrants to purchase an aggregate of 4,597,458 Ordinary Shares to investors, of which no warrants have expired, no warrants have been exercised and 4,597,458 are still outstanding. The exercise price of the warrants is \$4.13 per Ordinary Share. In addition, in the last three years we have issued options to directors, employees and consultants to purchase an aggregate of 1,964,910 Ordinary Shares, of which 464,530 options have expired, no options have been exercised and 1,500,380 options are still outstanding. The exercise price of the options ranges from \$1.85 to \$6.14 per Ordinary Share.

Registration Number of the Company

Our registration number with the Israeli Registrar of Companies is 515441541.

Purposes and Objects of the Company

Our purpose and objectives are set forth in Section 3 of our amended and restated articles of association.

The Powers of the Directors

Our board of directors shall direct our policy and shall supervise the performance of our chief executive officer and his actions. Our board of directors may exercise all powers that are not required under the Companies Law or under our amended and restated articles of association to be exercised or taken by our shareholders.

Rights Attached to Shares

Our Ordinary Shares shall confer upon the holders thereof:

- equal right to attend and to vote at all of our general meetings, whether regular or special, with each Ordinary Share entitling the holder thereof, which attend the meeting and participate at the voting, either in person electronically or by a proxy or by a written ballot, to one vote;
- equal right to participate in distribution of dividends, if any, whether payable in cash or in bonus shares, in distribution of assets or in any other distribution, on a per share pro rata basis; and
- equal right to participate, upon our dissolution, in the distribution of our assets legally available for distribution, on a per share pro rata basis.

Election of Directors

Pursuant to our amended and restated articles of association, our directors are appointed by shareholders holding at least 10% of the issued share capital of the company and in such case the appointment will be for undefined period, subject to the provisions of the amended and restated articles, or elected at an annual general meeting of our shareholders and in such case they shall serve on the board of directors until the next annual general meeting (except for external directors) or until they resign or until they cease to act as board members pursuant to the provisions of our amended and restated articles of association or any applicable law, upon the earlier. In addition, our amended and restated articles of association allow our board of directors to appoint directors to fill vacancies and/or as an addition to the board of directors (subject to the maximum number of directors) to serve until the next annual general meeting or earlier if required by our amended and restated articles of association or applicable law, upon the earlier. External directors are elected for an initial term of three years and may be removed from office pursuant to the terms of the Companies Law. See “Item 6.C— Management—Board Practices—External Directors” in our Annual Report on Form 20-F for the year ended December 31, 2022 incorporated by reference herein for additional information.

Annual and Special Meetings

Under the Companies Law, we are required to hold an annual general meeting of our shareholders once every calendar year, at such time and place which shall be determined by our board of directors, that must be no later than 15 months after the date of the previous annual general meeting. All meetings other than the annual general meeting of shareholders are referred to as special general meetings. Our board of directors may call special meetings whenever it sees fit and upon the written request of: (a) any two of our directors or such number of directors equal to one quarter of the members of our board of directors; and/or (b) one or more shareholders holding, in the aggregate, either (i) 5% or more of our outstanding voting power or (ii) 5% or more of our outstanding issued shares and 1% of our outstanding voting power.

Resolutions regarding the following matters must be passed at a general meeting of our shareholders:

- amendments to our amended and restated articles of association;
- appointment or termination of our auditors;
- appointment of directors, including external directors;
- approval of acts and transactions requiring general meeting approval pursuant to the provisions of the Companies Law and any other applicable law;
- increases or reductions of our authorized share capital; and
- a merger (as such term is defined in the Companies Law).

Notices

The Companies Law requires that a notice of any annual or special shareholders meeting be provided at least 21 days prior to the meeting, and if the agenda of the meeting includes, among other matters, the appointment or removal of directors, the approval of transactions with office holders or interested or related parties, or an approval of a merger, notice must be provided at least 35 days prior to the meeting.

Quorum

As permitted under the Companies Law, under our amended and restated articles of association, the quorum required for our general meetings consists of at least two shareholders present in person, by proxy or written ballot, who hold or represent between them at least 25% of the total outstanding voting rights. If within half an hour of the time set forth for the general meeting a quorum is not present, the general meeting shall stand adjourned the same day of the following week, at the same hour and in the same place, or to such other date, time and place as prescribed in the notice to the shareholders and in such adjourned meeting, if no quorum is present within half an hour of the time arranged, any number of shareholders participating in the meeting, shall constitute a quorum.

Adoption of Resolutions

Our amended and restated articles of association provide that all resolutions of our shareholders require a simple majority vote, unless otherwise required under the Companies Law or our amended and restated articles of association. A shareholder may vote in a general meeting in person, by proxy or by a written ballot.

Changing Rights Attached to Shares

Unless otherwise provided by the terms of the shares and subject to any applicable law, in order to change the rights attached to any class of shares, such change must be adopted by the board of directors and at a general meeting of the affected class or by a written consent of all the shareholders of the affected class.

The enlargement of an existing class of shares or the issuance of additional shares thereof, shall not be deemed to modify the rights attached to the previously issued shares of such class or of any other class, unless otherwise provided by the terms of the shares.

Provisions Restricting Change in Control of Our Company

There are no specific provisions of our amended and restated articles of association that would have an effect of delaying, deferring or preventing a change in control of the Company or that would operate only with respect to a merger, acquisition or corporate restructuring involving us. However, as described below, certain provisions of the Companies Law may have such effect.

The Companies Law includes provisions that allow a merger transaction and requires that each company that is a party to the merger have the transaction approved by its board of directors and, unless certain requirements described under the Companies Law are met, a vote of the majority of shareholders, and, in the case of the target company, also a majority vote of each class of its shares. For purposes of the shareholder vote of each party, unless a court rules otherwise, the merger will not be deemed approved if shares representing a majority of the voting power present at the shareholders meeting and which are not held by the other party to the merger (or by any person or group of persons acting in concert who holds 25% or more of the voting power or the right to appoint 25% or more of the directors of the other party) vote against the merger. If, however, the merger involves a merger with a company's own controlling shareholder or if the controlling shareholder has a personal interest in the merger, then the merger is instead subject to the same special majority requirement that governs all extraordinary transactions with controlling shareholders. Upon the request of a creditor of either party to the proposed merger, the court may delay or prevent the merger if it concludes that there exists a reasonable concern that as a result of the merger the surviving company will be unable to satisfy the obligations of any of the parties to the merger, and may further give instructions to secure the rights of creditors. In addition, a merger may not be completed unless at least (1) 50 days have passed from the time that the requisite proposals for approval of the merger were filed with the Israeli Registrar of Companies by each merging company and (2) 30 days have passed since the merger was approved by the shareholders of each merging company.

The Companies Law also provides that an acquisition of shares in an Israeli public company must be made by means of a “special” tender offer if as a result of the acquisition (1) the purchaser would become a holder of 25% or more of the voting rights in the company, unless there is already another holder of at least 25% or more of the voting rights in the company or (2) the purchaser would become a holder of more than 45% of the voting rights in the company, unless there is already a holder of more than 45% of the voting rights in the company. These requirements do not apply if, in general, the acquisition (1) was made in a private placement that received shareholders’ approval, subject to certain conditions, (2) was from a holder of 25% or more of the voting rights in the company which resulted in the acquirer becoming a holder of 25% or more of the voting rights in the company, or (3) was from a holder of more than 45% of the voting rights in the company which resulted in the acquirer becoming a holder of more than 45% of the voting rights in the company. A “special” tender offer must be extended to all shareholders. In general, a “special” tender offer may be consummated only if (1) at least 5% of the voting power attached to the company’s outstanding shares will be acquired by the offeror and (2) the offer is accepted by a majority of the offerees who notified the company of their position in connection with such offer (excluding the offeror, controlling shareholders, holders of 25% or more of the voting rights in the company or anyone on their behalf, or any person having a personal interest in the acceptance of the tender offer). If a special tender offer is accepted, then the purchaser or any person or entity controlling it or under common control with the purchaser or such controlling person or entity may not make a subsequent tender offer for the purchase of shares of the target company and may not enter into a merger with the target company for a period of one year from the date of the offer, unless the purchaser or such person or entity undertook to effect such an offer or merger in the initial special tender offer.

If, as a result of an acquisition of shares, the acquirer will hold more than 90% of an Israeli company’s outstanding shares, the acquisition must be made by means of a tender offer for all of the outstanding shares. In general, if less than 5% of the outstanding shares are not tendered in the tender offer and more than half of the offerees who have no personal interest in the offer tendered their shares, all the shares that the acquirer offered to purchase will be transferred to it by operation of law. However, a tender offer will also be accepted if the shareholders who do not accept the offer hold less than 2% of the issued and outstanding share capital of the company or of the applicable class of shares. Shareholders may request appraisal rights in connection with a full tender offer for a period of six months following the consummation of the tender offer, but the acquirer is entitled to stipulate, under certain conditions, that tendering shareholders will forfeit such appraisal rights.

Lastly, Israeli tax law treats some acquisitions, such as stock-for-stock exchanges between an Israeli company and a foreign company, less favorably than U.S. tax laws. For example, Israeli tax law may, under certain circumstances, subject a shareholder who exchanges his Ordinary Shares for shares in another corporation to taxation prior to the sale of the shares received in such stock-for-stock swap.

Changes in Our Capital

Our amended and restated articles of association enable us to increase or reduce our share capital. Any such changes are subject to the provisions of the Companies Law and must be approved by a resolution duly passed by our shareholders at a general meeting by voting on such change in the capital.

DESCRIPTION OF WARRANTS

We may issue and offer warrants under the material terms and conditions described in this prospectus and any accompanying prospectus supplement. The accompanying prospectus supplement may add, update or change the terms and conditions of the warrants as described in this prospectus.

We may issue warrants to purchase our Ordinary Shares. Warrants may be issued independently or together with any securities and may be attached to or separate from those securities. The warrants may be issued under warrant or subscription agreements to be entered into between us and a bank or trust company, as warrant agent, all of which will be described in the prospectus supplement relating to the warrants we are offering. The warrant agent will act solely as our agent in connection with the warrants and will not have any obligation or relationship of agency or trust for or with any holders or beneficial owners of warrants.

The particular terms of the warrants, the warrant or subscription agreements relating to the warrants and the warrant certificates representing the warrants will be described in the applicable prospectus supplement, including some or all of the following:

- the title of such warrants;
- the aggregate number of such warrants;
- the price or prices at which such warrants will be issued and exercised;
- the currency or currencies in which the price of such warrants will be payable;
- the securities purchasable upon exercise of such warrants;
- the date on which the right to exercise such warrants shall commence and the date on which such right shall expire;
- if applicable, the minimum or maximum amount of such warrants which may be exercised at any one time;
- if applicable, the designation and terms of the securities with which such warrants are issued and the number of such warrants issued with each such security;
- if applicable, the date on and after which such warrants and the related securities will be separately transferable;
- if applicable, any provisions for cashless exercise of the warrants;
- if applicable; any exercise limitations with respect to the ownership limitations by the holder exercising the warrant;
- information with respect to book-entry procedures, if any;
- any material Israeli tax consequences and United States federal income tax consequences;
- the anti-dilution provisions of the warrants, if any; and
- any other terms of such warrants, including terms, procedures and limitations relating to the exchange and exercise of such warrants.

Holders of warrants will not be entitled, solely by virtue of being holders, to vote, to consent, to receive dividends, to receive notice as shareholders with respect to any meeting of shareholders for the election of directors or any other matters, or to exercise any rights whatsoever as a holder of the equity securities purchasable upon exercise of the warrants.

The description in the applicable prospectus supplement of any warrants we offer will not necessarily be complete and will be qualified in its entirety by reference to the applicable warrant agreement and warrant certificate, which will be filed with the SEC if we offer warrants. For more information on how you can obtain copies of the applicable warrant agreement if we offer warrants, see “Where You Can Find More Information” beginning on page 15 and “Incorporation of Information by Reference” beginning on page 15. We urge you to read any applicable prospectus supplement and the applicable warrant agreement and form of warrant certificate in their entirety.

DESCRIPTION OF UNITS

We may issue units comprised of one or more of the other securities described in this prospectus in any combination. Each unit will be issued so that the holder of the unit is also the holder of each security included in the unit. Thus, the holder of a unit will have the rights and obligations of a holder of each included security. The unit agreement under which a unit is issued may provide that the securities included in the unit may not be held or transferred separately, at any time or at any time before a specified date.

The applicable prospectus supplement will describe:

- the designation and terms of the units and of the securities comprising the units, including whether and under what circumstances those securities may be held or transferred separately;
- the material terms of a unit agreement under which the units will be issued;
- any provisions for the issuance, payment, settlement, transfer or exchange of the units or of the securities comprising the units; and
- whether the units will be issued in fully registered or global form.

The applicable prospectus supplement will describe the terms of any units. The preceding description and any description of units in the applicable prospectus supplement does not purport to be complete and is subject to and is qualified in its entirety by reference to the unit agreement and, if applicable, collateral arrangements and depository arrangements relating to such units. For more information on how you can obtain copies of the applicable unit agreement if we offer units, see “Where You Can Find More Information” beginning on page 15 and “Incorporation by Reference” beginning on page 15. We urge you to read the applicable unit agreement and any applicable prospectus supplement in their entirety.

PLAN OF DISTRIBUTION

The securities being offered by this prospectus may be sold:

- through agents;
- to or through one or more underwriters on a firm commitment or agency basis;
- through put or call option transactions relating to the securities;
- to or through dealers, who may act as agents or principals, including a block trade (which may involve crosses) in which a broker or dealer so engaged will attempt to sell as agent but may position and resell a portion of the block as principal to facilitate the transaction;
- through privately negotiated transactions;
- purchases by a broker or dealer as principal and resale by such broker or dealer for its own account pursuant to this prospectus;
- directly to purchasers, including our affiliates, through a specific bidding or auction process, on a negotiated basis or otherwise; to or through one or more underwriters on a firm commitment or best efforts basis;
- exchange distributions and/or secondary distributions;
- ordinary brokerage transactions and transactions in which the broker solicits purchasers;
- in an “at the market offering”, within the meaning of Rule 415(a)(4) of the Securities into an existing trading market, on an exchange or otherwise;
- transactions not involving market makers or established trading markets, including direct sales or privately negotiated transactions;
- transactions in options, swaps or other derivatives that may or may not be listed on an exchange;
- through any other method permitted pursuant to applicable law; or
- through a combination of any such methods of sale.

At any time a particular offer of the securities covered by this prospectus is made, a revised prospectus or prospectus supplement, if required, will be distributed which will set forth the aggregate amount of securities covered by this prospectus being offered and the terms of the offering, including the name or names of any underwriters, dealers, brokers or agents, any discounts, commissions, concessions and other items constituting compensation from us and any discounts, commissions or concessions allowed or re-allowed or paid to dealers. Such prospectus supplement, and, if necessary, a post-effective amendment to the registration statement of which this prospectus is a part, will be filed with the SEC to reflect the disclosure of additional information with respect to the distribution of the securities covered by this prospectus. In order to comply with the securities laws of certain states, if applicable, the securities sold under this prospectus may only be sold through registered or licensed broker-dealers. In addition, in some states the securities may not be sold unless they have been registered or qualified for sale in the applicable state or an exemption from registration or qualification requirements is available and is complied with.

The distribution of securities may be effected from time to time in one or more transactions, including block transactions and transactions on the Nasdaq Global Market or any other organized market where the securities may be traded. The securities may be sold at a fixed price or prices, which may be changed, or at market prices prevailing at the time of sale, at prices relating to the prevailing market prices or at negotiated prices. The consideration may be cash or another form negotiated by the parties. Agents, underwriters or broker-dealers may be paid compensation for offering and selling the securities. That compensation may be in the form of discounts, concessions or commissions to be received from us or from the purchasers of the securities. Any dealers and agents participating in the distribution of the securities may be deemed to be underwriters, and compensation received by them on resale of the securities may be deemed to be underwriting discounts. If any such dealers or agents were deemed to be underwriters, they may be subject to statutory liabilities under the Securities Act.

Agents may from time to time solicit offers to purchase the securities. If required, we will name in the applicable prospectus supplement any agent involved in the offer or sale of the securities and set forth any compensation payable to the agent. Unless otherwise indicated in the prospectus supplement, any agent will be acting on a best efforts basis for the period of its appointment. Any agent selling the securities covered by this prospectus may be deemed to be an underwriter, as that term is defined in the Securities Act, of the securities.

To the extent that we make sales to or through one or more underwriters or agents in at-the-market offerings, we will do so pursuant to the terms of a distribution agreement between us and the underwriters or agents. If we engage in at-the-market sales pursuant to a distribution agreement, we will sell any of our listed securities to or through one or more underwriters or agents, which may act on an agency basis or on a principal basis. During the term of any such agreement, we may sell any of our listed securities on a daily basis in exchange transactions or otherwise as we agree with the underwriters or agents. The distribution agreement will provide that any of our listed securities which are sold will be sold at prices related to the then prevailing market prices for our listed securities. Therefore, exact figures regarding proceeds that will be raised or commissions to be paid cannot be determined at this time and will be described in a prospectus supplement. Pursuant to the terms of the distribution agreement, we also may agree to sell, and the relevant underwriters or agents may agree to solicit offers to purchase, blocks of our listed securities. The terms of each such distribution agreement will be set forth in more detail in a prospectus supplement to this prospectus.

If underwriters are used in a sale, securities will be acquired by the underwriters for their own account and may be resold from time to time in one or more transactions, including negotiated transactions, at a fixed public offering price or at varying prices determined at the time of sale, or under delayed delivery contracts or other contractual commitments. Securities may be offered to the public either through underwriting syndicates represented by one or more managing underwriters or directly by one or more firms acting as underwriters. If an underwriter or underwriters are used in the sale of securities, an underwriting agreement will be executed with the underwriter or underwriters, as well as any other underwriter or underwriters, with respect to a particular underwritten offering of securities, and will set forth the terms of the transactions, including compensation of the underwriters and dealers and the public offering price, if applicable. The prospectus and prospectus supplement will be used by the underwriters to resell the securities.

If a dealer is used in the sale of the securities, we or an underwriter will sell the securities to the dealer, as principal. The dealer may then resell the securities to the public at varying prices to be determined by the dealer at the time of resale. To the extent required, we will set forth in the prospectus supplement the name of the dealer and the terms of the transactions.

We may directly solicit offers to purchase the securities and may make sales of securities directly to institutional investors or others. These persons may be deemed to be underwriters within the meaning of the Securities Act with respect to any resale of the securities. To the extent required, the prospectus supplement will describe the terms of any such sales, including the terms of any bidding or auction process, if used.

Agents, underwriters and dealers may be entitled under agreements which may be entered into with us to indemnification by us against specified liabilities, including liabilities incurred under the Securities Act, or to contribution by us to payments they may be required to make in respect of such liabilities. If required, the prospectus supplement will describe the terms and conditions of the indemnification or contribution. Some of the agents, underwriters or dealers, or their affiliates may be customers of, engage in transactions with or perform services for us or our subsidiaries.

Any person participating in the distribution of securities registered under the registration statement that includes this prospectus will be subject to applicable provisions of the Securities Exchange Act of 1934, as amended, or the Exchange Act, and the applicable SEC rules and regulations, including, among others, Regulation M, which may limit the timing of purchases and sales of any of our securities by that person. Furthermore, Regulation M may restrict the ability of any person engaged in the distribution of our securities to engage in market-making activities with respect to our securities. These restrictions may affect the marketability of our securities and the ability of any person or entity to engage in market-making activities with respect to our securities.

Certain persons participating in an offering may engage in over-allotment, stabilizing transactions, short-covering transactions, penalty bids and other transactions that stabilize, maintain or otherwise affect the price of the offered securities. These activities may maintain the price of the offered securities at levels above those that might otherwise prevail in the open market, including by entering stabilizing bids, effecting syndicate covering transactions or imposing penalty bids, each of which is described below:

- a stabilizing bid means the placing of any bid, or the effecting of any purchase, for the purpose of pegging, fixing or maintaining the price of a security.
- a syndicate covering transaction means the placing of any bid on behalf of the underwriting syndicate or the effecting of any purchase to reduce a short position created in connection with the offering.
- a penalty bid means an arrangement that permits the managing underwriter to reclaim a selling concession from a syndicate member in connection with the offering when offered securities originally sold by the syndicate member are purchased in syndicate covering transactions.

These transactions may be effected on an exchange or automated quotation system, if the securities are listed on that exchange or admitted for trading on that automated quotation system, or in the over-the-counter market or otherwise.

If so indicated in the applicable prospectus supplement, we will authorize agents, underwriters or dealers to solicit offers from certain types of institutions to purchase offered securities from us at the public offering price set forth in such prospectus supplement pursuant to delayed delivery contracts providing for payment and delivery on a specified date in the future. Such contracts will be subject only to those conditions set forth in the prospectus supplement and the prospectus supplement will set forth the commission payable for solicitation of such contracts.

In addition, ordinary shares or warrants may be issued upon conversion of or in exchange for other securities.

Any underwriters to whom offered securities are sold for public offering and sale may make a market in such offered securities, but such underwriters will not be obligated to do so and may discontinue any market making at any time without notice. The offered securities may or may not be listed on a national securities exchange. No assurance can be given that there will be a market for the offered securities.

Any securities that qualify for sale pursuant to Rule 144 or Regulation S under the Securities Act may be sold under Rule 144 or Regulation S rather than pursuant to this prospectus.

In connection with offerings made through underwriters or agents, we may enter into agreements with such underwriters or agents pursuant to which we receive our outstanding securities in consideration for the securities being offered to the public for cash. In connection with these arrangements, the underwriters or agents may also sell securities covered by this prospectus to hedge their positions in these outstanding securities, including in short sale transactions. If so, the underwriters or agents may use the securities received from us under these arrangements to close out any related open borrowings of securities.

We may enter into derivative transactions with third parties or sell securities not covered by this prospectus to third parties in privately negotiated transactions. If the applicable prospectus supplement indicates, in connection with those derivatives, such third parties (or affiliates of such third parties) may sell securities covered by this prospectus and the applicable prospectus supplement, including in short sale transactions. If so, such third parties (or affiliates of such third parties) may use securities pledged by us or borrowed from us or others to settle those sales or to close out any related open borrowings of shares, and may use securities received from us in settlement of those derivatives to close out any related open borrowings of shares. The third parties (or affiliates of such third parties) in such sale transactions will be underwriters and will be identified in the applicable prospectus supplement (or a post-effective amendment).

We may loan or pledge securities to a financial institution or other third party that in turn may sell the securities using this prospectus. Such financial institution or third party may transfer its short position to investors in our securities or in connection with a simultaneous offering of other securities offered by this prospectus or in connection with a simultaneous offering of other securities offered by this prospectus.

LEGAL MATTERS

Certain legal matters concerning this offering will be passed upon for us by Greenberg Traurig, P.A., Tel Aviv, Israel. Certain legal matters with respect to the legality of the issuance of the securities offered by this prospectus will be passed upon for us by Shibolet & Co. Law Firm, Tel Aviv, Israel.

EXPERTS

The financial statements of Rail Vision Ltd. as of December 31, 2022 and 2021, and for each of the three years in the period ended December 31, 2022 incorporated in this Prospectus by reference from the Annual Report on Form 20-F for the year ended December 31, 2022, have been audited by Brightman Almagor Zohar & Co., a Firm in the Deloitte Global Network, an independent registered public accounting firm, as stated in their report thereon, incorporated herein. Such financial statements are incorporated in this Prospectus by reference in reliance upon such report given on the authority of said firm as experts in auditing and accounting.

EXPENSES

The following are the estimated expenses related to the filing of the registration statement of which this prospectus forms a part, all of which will be paid by us. In addition, we may incur additional expenses in the future in connection with an offering of our securities pursuant to this prospectus. If required, any such additional expenses will be disclosed in a prospectus supplement.

| | | |
|------------------------------|-----------|----------|
| SEC registration fee | \$ | 5,510 |
| Legal fees and expenses | | * |
| Accounting fees and expenses | | * |
| Miscellaneous | | * |
| Total | \$ | * |

* To be provided by a prospectus supplement or as an exhibit to a Report on Form 6-K that is incorporated by reference into this prospectus.

INCORPORATION OF CERTAIN INFORMATION BY REFERENCE

The SEC allows us to “incorporate by reference” the information we file with it, which means that we can disclose important information to you by referring you to those documents. The information incorporated by reference is considered to be part of this prospectus and information we file later with the SEC will automatically update and supersede this information. The documents we are incorporating by reference as of their respective dates of filing are:

- Annual Report on [Form 20-F](#) for the year ended December 31, 2022, filed on March 23, 2023; and
- The description our Ordinary Shares, which is contained in our registration statement on [Form 8-A](#) filed with the SEC pursuant to the Exchange Act on March 25, 2022 (File No. 001-41334), as amended by Exhibit 2.1 to our Annual Report on Form 20-F for the year ended December 31, 2022, and including any further amendment or report filed for the purpose of updating such description.

All subsequent annual reports filed by us pursuant to the Exchange Act on Form 20-F prior to the termination of an offering shall be deemed to be incorporated by reference to this prospectus and to be a part hereof from the date of filing of such documents. We may also incorporate part or all of any Form 6-K subsequently submitted by us to the SEC prior to the termination of an offering by identifying in such Forms 6-K that they, or certain parts of their contents, are being incorporated by reference herein, and any Forms 6-K so identified shall be deemed to be incorporated by reference in this prospectus and to be a part hereof from the date of submission of such documents. Any statement contained in a document incorporated or deemed to be incorporated by reference herein shall be deemed to be modified or superseded for purposes of this prospectus to the extent that a statement contained herein or in any other subsequently filed document which also is incorporated or deemed to be incorporated by reference herein modifies or supersedes such statement. Any such statement so modified or superseded shall not be deemed, except as so modified or superseded, to constitute a part of this prospectus.

The information we incorporate by reference is an important part of this prospectus, and later information that we file with the SEC will automatically update and supersede the information contained in this prospectus.

We will provide you without charge, upon your written or oral request, a copy of any of the documents incorporated by reference in this prospectus, other than exhibits to such documents which are not specifically incorporated by reference into such documents. Please direct your written or telephone requests to us at: Rail Vision Ltd., 15 Hatidhar St. Ra'anana, 4366517 Israel. Attention: Ofer Naveh, Chief Financial Officer, telephone number: +972-9-957-7706.

WHERE YOU CAN FIND ADDITIONAL INFORMATION

This prospectus is part of a registration statement on Form F-3 that we filed with the SEC relating to the securities offered by this prospectus, which includes additional information. You should refer to the registration statement and its exhibits for additional information. Whenever we make reference in this prospectus to any of our contracts, agreements or other documents, the references are not necessarily complete and you should refer to the exhibits attached to the registration statement for copies of the actual contract, agreements or other document.

We are subject to the informational requirements of the Exchange Act applicable to foreign private issuers. We, as a “foreign private issuer,” are exempt from the rules under the Exchange Act prescribing certain disclosure and procedural requirements for proxy solicitations, and our officers, directors and principal shareholders are exempt from the reporting and “short-swing” profit recovery provisions contained in Section 16 of the Exchange Act, with respect to their purchases and sales of shares. In addition, we are not required to file annual, quarterly and current reports and financial statements with the SEC as frequently or as promptly as U.S. companies whose securities are registered under the Exchange Act.

You can review our SEC filings and the registration statement by accessing the SEC’s internet site at <http://www.sec.gov>. We maintain a corporate website at <http://safe-t.com>. Information contained on, or that can be accessed through, our website does not constitute a part of this prospectus. We have included our website address in this prospectus solely as an inactive textual reference.

ENFORCEABILITY OF CIVIL LIABILITIES

We are incorporated under the laws of the State of Israel. Service of process upon us and upon our directors and officers and the Israeli experts named in the registration statement of which this prospectus forms a part, all or a substantial majority of whom reside outside of the United States, may be difficult to obtain within the United States. Furthermore, because substantially all of our assets and a substantial of our directors and officers are located outside of the United States, any judgment obtained in the United States against us or any of our directors and officers may not be collectible within the United States.

We have been informed by our legal counsel in Israel, Shibolet & Co., that it may be difficult to assert U.S. securities law claims in original actions instituted in Israel. Israeli courts may refuse to hear a claim based on a violation of U.S. securities laws because Israel is not the most appropriate forum to bring such a claim. In addition, even if an Israeli court agrees to hear a claim, it may determine that Israeli law and not U.S. law is applicable to the claim. If U.S. law is found to be applicable, the content of applicable U.S. law must be proved as a fact which can be a time-consuming and costly process. Certain matters of procedure will also be governed by Israeli law.

Subject to specified time limitations and legal procedures, Israeli courts may enforce a United States judgment in a civil matter which, subject to certain exceptions, is non-appealable, including judgments based upon the civil liability provisions of the Securities Act and the Exchange Act and including a monetary or compensatory judgment in a non-civil matter, provided that among other things:

- the judgment is obtained after due process before a court of competent jurisdiction, according to the laws of the state in which the judgment is given and the rules of private international law currently prevailing in Israel;
- the judgment is final and is not subject to any right of appeal;
- the prevailing law of the foreign state in which the judgment was rendered allows for the enforcement of judgments of Israeli courts;
- adequate service of process has been effected and the defendant has had a reasonable opportunity to be heard and to present his or her evidence;
- the liabilities under the judgment are enforceable according to the laws of the State of Israel and the judgment and the enforcement of the civil liabilities set forth in the judgment is not contrary to the law or public policy in Israel nor likely to impair the security or sovereignty of Israel;
- the judgment was not obtained by fraud and does not conflict with any other valid judgments in the same matter between the same parties;
- an action between the same parties in the same matter is not pending in any Israeli court at the time the lawsuit is instituted in the foreign court; and
- the judgment is enforceable according to the law of the foreign state in which the relief was granted.

If a foreign judgment is enforced by an Israeli court, it generally will be payable in Israeli currency, which can then be converted into non-Israeli currency and transferred out of Israel. The usual practice in an action before an Israeli court to recover an amount in a non-Israeli currency is for the Israeli court to issue a judgment for the equivalent amount in Israeli currency at the rate of exchange in force on the date of the judgment, but the judgment debtor may make payment in foreign currency. Pending collection, the amount of the judgment of an Israeli court stated in Israeli currency ordinarily will be linked to the Israeli Consumer Price Index plus interest at the annual statutory rate set by Israeli regulations prevailing at the time. Judgment creditors must bear the risk of unfavorable exchange rates.

PART II

INFORMATION NOT REQUIRED IN PROSPECTUS

Item 8. Indemnification of Directors and Officers

Indemnification

The Israeli Companies Law 5759-1999, or the Companies Law, and the Israeli Securities Law, 5728-1968, or the Securities Law, provide that a company may indemnify an office holder against the following liabilities and expenses incurred for acts performed by him or her as an office holder, either pursuant to an undertaking made in advance of an event or following an event, provided its articles of association include a provision authorizing such indemnification:

- a financial liability imposed on him or her in favor of another person by any judgment concerning an act performed in his or her capacity as an office holder, including a settlement or arbitrator's award approved by a court. However, if an undertaking to indemnify an office holder with respect to such liability is provided in advance, then such an undertaking must be limited to events which, in the opinion of the board of directors, can be foreseen based on the company's activities when the undertaking to indemnify is given, and to an amount or according to criteria determined by the board of directors as reasonable under the circumstances, and such undertaking shall detail the abovementioned foreseen events and amount or criteria;
- reasonable litigation expenses, including attorneys' fees, expended by the office holder (a) as a result of an investigation or proceeding instituted against him or her by an authority authorized to conduct such investigation or proceeding, provided that (1) no indictment (as defined in the Companies Law) was filed against such office holder as a result of such investigation or proceeding; and (2) no financial liability as a substitute for the criminal proceeding (as defined in the Companies Law) was imposed upon him or her as a result of such investigation or proceeding, or, if such financial liability was imposed, it was imposed with respect to an offense that does not require proof of criminal intent; and (b) in connection with a monetary sanction;
- reasonable litigation expenses, including attorneys' fees, expended by the office holder or imposed on him or her by a court: (1) in proceedings that the company institutes, or that another person institutes on the company's behalf, against him or her; (2) in a criminal proceedings of which he or she was acquitted; or (3) as a result of a conviction for a crime that does not require proof of criminal intent; and
- expenses incurred by an office holder in connection with an Administrative Procedure under the Securities Law, including reasonable litigation expenses and reasonable attorneys' fees. An "Administrative Procedure" is defined as a procedure pursuant to chapters H3 (Monetary Sanction by the Israeli Securities Authority), H4 (Administrative Enforcement Procedures of the Administrative Enforcement Committee) or I1 (Arrangement to prevent Procedures or Interruption of procedures subject to conditions) to the Securities Law.

Exculpation

Under the Companies Law, an Israeli company may not exculpate an office holder from liability for a breach of his or her duty of loyalty, but may exculpate in advance an office holder from his or her liability to the company, in whole or in part, for damages caused to the company as a result of a breach of his or her duty of care (other than in relation to distributions), but only if a provision authorizing such exculpation is included in its articles of association.

Limitations

The Companies Law provides that the Company may not exculpate or indemnify an office holder nor enter into an insurance contract that would provide coverage for any liability incurred as a result of any of the following: (1) a breach by the office holder of his or her duty of loyalty unless (in the case of indemnity or insurance only, but not exculpation) the office holder acted in good faith and had a reasonable basis to believe that the act would not prejudice us; (2) a breach by the office holder of his or her duty of care if the breach was carried out intentionally or recklessly (as opposed to merely negligently); (3) any act or omission committed with the intent to derive an illegal personal benefit; or (4) any fine, monetary sanction, penalty or forfeit levied against the office holder.

Under the Companies Law, exculpation, indemnification and insurance of office holders in a public company must be approved by the compensation committee and the board of directors and, with respect to certain office holders or under certain circumstances, also by the shareholders.

The Company's amended and restated articles of association permit the Company to exculpate, indemnify and insure its office holders to the fullest extent permitted or to be permitted by the Companies Law.

The Company enters into agreements with each of our directors and executive officers exculpating them from liability to the Company for damages caused to it as a result of a breach of duty of care and undertaking to indemnify them, in each case, to the fullest extent permitted by the Company's amended and restated articles of association to be effective upon the closing of this offering and the Companies Law, including with respect to liabilities resulting from this offering to the extent that these liabilities are not covered by insurance.

Item 9. Exhibits

| Exhibit Number | Description of Document |
|-----------------------|--|
| 1.1* | Form of Underwriting Agreement. |
| 4.1 | Amended and Restated Articles of Association of Rail Vision Ltd. (filed as Exhibit 3.2 to our Registration Statement on Form F-1 as filed with the Securities and Exchange Commission on March 24, 2022 and incorporated herein by reference). |
| 4.2* | Form of Warrant Agreement. |
| 4.3* | Form of Unit Agreement. |
| 5.1** | Opinion of Shibolet & Co. |
| 5.2** | Opinion of Greenberg Traurig, P.A. |
| 23.1** | Consent of Brightman Almagor Zohar & Co., a Firm in the Deloitte Global Network. |
| 23.2** | Consent of Shibolet & Co. (included in Exhibit 5.1). |
| 23.3** | Consent of Greenberg Traurig, P.A. (included in Exhibit 5.2). |
| 24.1** | Power of Attorney (included on signature page). |
| 107** | Filing Fee Table. |

* To be filed by amendment or as an exhibit to a document incorporated by reference herein in connection with an offering of the offered securities.

** Filed herewith.

Item 10. Undertakings

(a) The undersigned Registrant hereby undertakes:

1. To file, during any period in which offers or sales are being made, a post-effective amendment to this registration statement:

(i) To include any prospectus required by section 10(a)(3) of the Securities Act of 1933;

(ii) To reflect in the prospectus any facts or events arising after the effective date of the registration statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in the registration statement. Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the Commission pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than 20% change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective registration statement.

(iii) To include any material information with respect to the plan of distribution not previously disclosed in the registration statement or any material change to such information in the registration statement;

provided, however, that paragraphs (a)(1)(i), (a)(1)(ii) and a(1)(iii) do not apply if the registration statement is on Form S-3 or Form F-3 and the information required to be included in a post-effective amendment by those paragraphs is contained in reports filed with or furnished to the SEC by the registrant pursuant to Section 13 or Section 15(d) of the Securities Exchange Act of 1934 that are incorporated by reference in the registration statement, or is contained in a form of prospectus filed pursuant to Rule 424(b) that is part of the registration statement.

(2) That, for the purpose of determining any liability under the Securities Act of 1933, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial *bona fide* offering thereof.

(3) To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.

(4) To file a post-effective amendment to the registration statement to include any financial statements required by Item 8.A. of Form 20-F at the start of any delayed offering or throughout a continuous offering. Financial statements and information otherwise required by Section 10(a)(3) of the Act need not be furnished, *provided*, that the registrant includes in the prospectus, by means of a post-effective amendment, financial statements required pursuant to this paragraph (a)(4) and other information necessary to ensure that all other information in the prospectus is at least as current as the date of those financial statements. Notwithstanding the foregoing, with respect to registration statements on Form F-3, a post-effective amendment need not be filed to include financial statements and information required by Section 10(a)(3) of the Act or Rule 3-19 of this chapter if such financial statements and information are contained in periodic reports filed with or furnished to the Commission by the registrant pursuant to Section 13 or Section 15(d) of the Securities Exchange Act of 1934 that are incorporated by reference in the Form F-3.

(5) That, for the purpose of determining liability under the Securities Act of 1933 to any purchaser:

(i) If the Registrant is relying on Rule 430B:

A. Each prospectus filed by the Registrant pursuant to Rule 424(b)(3) shall be deemed to be part of the registration statement as of the date the filed prospectus was deemed part of and included in the registration statement; and

B. Each prospectus required to be filed pursuant to Rule 424(b)(2), (b)(5), or (b)(7) as part of a registration statement in reliance on Rule 430B relating to an offering made pursuant to Rule 415(a)(1)(i), (vii), or (x) for the purpose of providing the information required by section 10(a) of the Securities Act of 1933 shall be deemed to be part of and included in the registration statement as of the earlier of the date such form of prospectus is first used after effectiveness or the date of the first contract of sale of securities in the offering described in the prospectus. As provided in Rule 430B, for liability purposes of the issuer and any person that is at that date an underwriter, such date shall be deemed to be a new effective date of the registration statement relating to the securities in the registration statement to which that prospectus relates, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof. *Provided, however,* that no statement made in a registration statement or prospectus that is part of the registration statement or made in a document incorporated or deemed incorporated by reference into the registration statement or prospectus that is part of the registration statement will, as to a purchaser with a time of contract of sale prior to such effective date, supersede or modify any statement that was made in the registration statement or prospectus that was part of the registration statement or made in any such document immediately prior to such effective date; or

(ii) If the Registrant is subject to Rule 430C, each prospectus filed pursuant to Rule 424(b) as part of a registration statement relating to an offering, other than registration statements relying on Rule 430B or other than prospectuses filed in reliance on Rule 430A, shall be deemed to be part of and included in the registration statement as of the date it is first used after effectiveness. *Provided, however,* that no statement made in a registration statement or prospectus that is part of the registration statement or made in a document incorporated or deemed incorporated by reference into the registration statement or prospectus that is part of the registration statement will, as to a purchaser with a time of contract of sale prior to such first use, supersede or modify any statement that was made in the registration statement or prospectus that was part of the registration statement or made in any such document immediately prior to such date of first use.

(6) That, for the purpose of determining liability of the Registrant under the Securities Act of 1933 to any purchaser in the initial distribution of the securities:

The undersigned Registrant undertakes that in a primary offering of securities of the undersigned Registrant pursuant to this Registration Statement, regardless of the underwriting method used to sell the securities to the purchaser, if the securities are offered or sold to such purchaser by means of any of the following communications, the undersigned Registrant will be a seller to the purchaser and will be considered to offer or sell such securities to such purchaser:

- (i) Any preliminary prospectus or prospectus of the undersigned Registrant relating to the offering required to be filed pursuant to Rule 424;
- (ii) Any free writing prospectus relating to the offering prepared by or on behalf of the undersigned Registrant or used or referred to by the undersigned Registrant;
- (iii) The portion of any other free writing prospectus relating to the offering containing material information about the undersigned Registrant or its securities provided by or on behalf of the undersigned Registrant; and
- (iv) Any other communication that is an offer in the offering made by the undersigned Registrant to the purchaser.

(b) The undersigned registrant hereby undertakes that, for purposes of determining any liability under the Securities Act of 1933, each filing of the registrant's annual report pursuant to Section 13(a) or Section 15(d) of the Exchange Act (and, where applicable, each filing of an employee benefit plan's annual report pursuant to Section 15(d) of the Exchange Act) that is incorporated by reference in the registration statement shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

(c) The undersigned Registrant hereby undertakes to deliver or cause to be delivered with the prospectus, to each person to whom the prospectus is sent or given, the latest annual report to security holders that is incorporated by reference in the prospectus and furnished pursuant to and meeting the requirements of Rule 14a-3 or Rule 14c-3 under the Exchange Act; and, where interim financial information required to be presented by Article 3 of Regulation S-X are not set forth in the prospectus, to deliver, or cause to be delivered to each person to whom the prospectus is sent or given, the latest quarterly report that is specifically incorporated by reference in the prospectus to provide such interim financial information.

(d) Insofar as indemnification for liabilities arising under the Securities Act of 1933 may be permitted to directors, officers and controlling persons of the Registrant pursuant to the foregoing provisions, or otherwise, the Registrant has been advised that in the opinion of the Securities and Exchange Commission such indemnification is against public policy as expressed in the Securities Act of 1933 and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the Registrant of expenses incurred or paid by a director, officer or controlling person of the Registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the Registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Securities Act of 1933, as amended, and will be governed by the final adjudication of such issue.

(e) The undersigned Registrant hereby undertakes that for purposes of determining any liability under the Securities Act of 1933, the information omitted from the form of prospectus filed as part of this Registration Statement in reliance upon Rule 430A and contained in a form of prospectus filed by the Registrant pursuant to Rule 424(b)(1) or (4), or 497(h) under the Securities Act of 1933 shall be deemed to be part of this Registration Statement as of the time it was declared effective.

(f) The undersigned Registrant hereby undertakes that, for the purpose of determining any liability under the Securities Act of 1933, each post-effective amendment that contains a form of prospectus shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

SIGNATURES

Pursuant to the requirement of the Securities Act of 1933, the Registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form F-3 and has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in Ra'anana, Israel on April 3, 2023.

RAIL VISION LTD.

By: /s/ Shahar Hania
Shahar Hania Chief Executive Officer

POWER OF ATTORNEY

We, the undersigned directors and/or officers of Rail Vision Ltd., hereby severally constitute and appoint Shahar Hania and Ofer Naveh, and each of them singly, our true and lawful attorneys, with full power to any of them, and to each of them singly, to sign for us and in our names in the capacities indicated below the registration statement on Form F-3 filed herewith, and any and all pre-effective and post-effective amendments to said registration statement, and any registration statement filed pursuant to Rule 462(b) under the Securities Act, as amended, in connection with the said registration under the Securities Act, as amended, and to file or cause to be filed the same, with all exhibits thereto and other documents in connection therewith, with the SEC, granting unto said attorneys, and each of them, full power and authority to do and perform each and every act and thing requisite and necessary to be done in connection therewith, as fully to all intents and purposes as each of them might or could do in person, and hereby ratifying and confirming all that said attorneys, and each of them, shall do or cause to be done by virtue of this Power of Attorney.

Pursuant to the requirements of the Securities Act of 1933, this registration statement has been signed by each of the following persons in the capacities and on the dates indicated:

| | | |
|---|---|---------------|
| <u>/s/ Shahar Hania</u> Shahar Hania | Chief Executive Officer, Director (Principal Executive Officer) | April 3, 2023 |
| <u>/s/ Ofer Naveh</u> Ofer Naveh | Chief Financial Officer (Principal Financial and Accounting Officer) | April 3, 2023 |
| <u>/s/ Mark Cleobury</u> Mark Cleobury | Chairman of the Board | April 3, 2023 |
| <u>/s/ Sam Donnerstein</u> Sam Donnerstein | Director | April 3, 2023 |
| <u>/s/ Yossi Daskal</u> Yossi Daskal | Director | April 3, 2023 |
| <u>/s/ Inbal Kreiss</u> Inbal Kreiss | Director | April 3, 2023 |
| <u>/s/ Eli Yoresh</u> Eli Yoresh | Director | April 3, 2023 |
| <u>/s/ Oz Adler</u> Oz Adler | Director | April 3, 2023 |
| <u>/s/ Maximillian Eichhorn</u> Maximillian Eichhorn | Director | April 3, 2023 |
| <u>/s/ Keren Aslan</u> Keren Aslan | Director | April 3, 2023 |

SIGNATURE OF AUTHORIZED REPRESENTATIVE IN THE UNITED STATES

Pursuant to the Securities Act of 1933, as amended, the undersigned, Puglisi & Associates, the duly authorized representative in the United States of Rail Vision Ltd., has signed this registration statement on April 3, 2023.

PUGLISI & ASSOCIATES

Authorized U.S. Representative

/s/ Donald J. Puglisi

Name: Donald J. Puglisi

Title: Managing Director

April 3, 2023

Rail Vision Ltd.
15 Ha'Tidhar St
Ra'anana, 4366517
Israel

Re: **Rail Vision Ltd. – Form F-3 Registration Statement**

We are acting as Israeli counsel for Rail Vision Ltd., an Israeli company (the “**Company**”), in connection with its registration statement on Form F-3 (the “**Registration Statement**”) filed with the Securities and Exchange Commission (the “**SEC**”) on the date hereof under the Securities Act of 1933, as amended (the “**Securities Act**”) which registers the offer, issuance and sale by the Company, from time to time, of any one or more of the following types of securities, individually or in units:

- (a) Ordinary shares, no par value NIS 0.01 per share (“**Ordinary Shares**”) of the Company (the “**Shares**”); and
- (b) Warrants to purchase Ordinary Shares (the “**Warrants**”).

The Shares, Warrants and units comprising a combination of Shares and Warrants are referred herein as the “**Securities**”.

This opinion letter is furnished to you at your request to enable you to fulfill the requirements of Item 601(b)(5) of Regulation S-K under the Securities Act, in connection with the filing of the Registration Statement

In connection herewith, we have examined the originals, or photocopies or copies, certified or otherwise identified to our satisfaction, of: (i) the form of the Registration Statement, to which this opinion letter is attached as an exhibit; (ii) the articles of association of the Company, as currently in effect (the “**Articles**”); (iii) minutes of a meeting of the board of directors of the Company (the “**Board**”) at which the filing of the Registration Statement and the actions to be taken in connection therewith were approved; and (iv) such other corporate records, agreements, documents and other instruments, and such certificates or comparable documents of public officials and of officers and representatives of the Company as we have deemed relevant and necessary as a basis for the opinions hereafter set forth. We have also made inquiries of such officers and representatives as we have deemed relevant and necessary as a basis for the opinions hereafter set forth.

In such examination, we have assumed the genuineness of all signatures, the legal capacity of all natural persons, the authenticity of all documents submitted to us as originals, the conformity to original documents of all documents submitted to us as certified, confirmed as photostatic copies and the authenticity of the originals of such latter documents. We have also assumed the truth of all facts communicated to us by the Company and that all minutes of meetings of the Board and the shareholders of the Company that have been provided to us are true and accurate and have been properly prepared in accordance with the Articles and all applicable laws. We have assumed, in addition, that at the time of the execution and delivery of any definitive purchase, underwriting or similar agreement between the Company and any third party pursuant to which any of the Securities may be issued (a “**Securities Agreement**”), the Securities Agreement will be the valid and legally binding obligation of such third party, enforceable against such third party in accordance with its terms. We have further assumed that at the time of the issuance and sale of any of the Securities, the terms of the Securities, and their issuance and sale, will have been established so as not to violate any applicable law or result in a default under or breach of any agreement or instrument binding upon the Company and so as to comply with any requirement or restriction imposed by any court or governmental body having jurisdiction over the Company.

Based upon and subject to the foregoing, we are of the opinion that with respect to the Shares, assuming (a) the taking of all necessary corporate action to authorize and approve the issuance of any Shares, the terms of the offering thereof and related matters (for purposes of this paragraph, the “**Authorizing Resolutions**”), (b) the effectiveness of the Registration Statement (including any post-effective amendments) shall not have been terminated or rescinded, (c) the delivery and filing of an appropriate prospectus supplement with respect to the offering of the Shares in compliance with the Securities Act and the applicable rules and regulations thereunder, (d) approval by the Board of, and entry by the Company into, and performance by the Company under, any applicable Securities Agreement, in the form filed as an exhibit to the Registration Statement, any post-effective amendment thereto or a Report of Foreign Private Issuer on Form 6-K, pursuant to which the Shares may be issued and sold, and (e) receipt by the Company of the consideration for the Shares as provided for in the Authorizing Resolutions and in accordance with the provisions of any such Securities Agreement and the applicable convertible Securities, if any, pursuant to which the Shares may be issued, such Shares, including any Ordinary Shares issued upon exercise or conversion of any Securities, will be validly issued, fully paid and non-assessable.

You have informed us that you intend to issue the Securities from time to time on a delayed or continuous basis, and this opinion is limited to the laws, including the rules and regulations, as in effect on the date hereof. We understand that prior to issuing any Securities you will afford us an opportunity to review the corporate approval documents and operative documents pursuant to which such Securities are to be issued (including an appropriate prospectus supplement), and we will file such supplement or amendment to this opinion (if any) as we may reasonably consider necessary or appropriate by reason of the terms of such Securities

We have further assumed that, at the time of issuance and sale of Ordinary Shares and to the extent any such issuance would exceed the maximum share capital of the Company currently authorized, the number of Ordinary Shares that the Company is authorized to issue shall have been increased in accordance with the Company's Articles such that a sufficient number of Ordinary Shares are authorized and available for issuance under the Articles.

Members of our firm are admitted to the Bar in the State of Israel, and we do not express any opinion as to the laws of any other jurisdiction. This opinion is limited to the matters stated herein and no opinion is implied or may be inferred beyond the matters expressly stated.

We consent to the filing of this opinion as an exhibit to the Registration Statement and to the reference to our firm appearing under the caption "Legal Matters" and, if applicable, "Enforcement of Civil Liabilities" in the prospectus forming part of the Registration Statement. In giving this consent, we do not thereby admit that we are within the category of persons whose consent is required under Section 7 of the Securities Act, the rules and regulations of the SEC promulgated thereunder or Item 509 of the SEC's Regulation S-K under the Securities Act.

This opinion letter is rendered as of the date hereof and we disclaim any obligation to advise you of facts, circumstances, events or developments that may be brought to our attention after the effective date of the Registration Statement that may alter, affect or modify the opinions expressed herein. This opinion is intended solely for the benefit and use of the Company and other persons who are entitled to rely on the Registration Statement, and is not to be used, released, quoted, or relied upon by anyone else for any purpose (other than as required by law), without our prior written consent.

Very truly yours,

/s/ Shibolet & Co.

April 3, 2023

Rail Vision Ltd.
15 Ha'Tidhar St
Ra'anana, 4366517 Israel

Re: Rail Vision Ltd. Shelf Registration Statement on Form F-3

Ladies and Gentlemen:

We have acted as legal counsel for Rai Vision Ltd., a company organized under the Laws of the State of Israel (the "Company"), in connection with the preparation of a Shelf Registration Statement on Form F-3, including the prospectus constituting a part thereof (the "Registration Statement"), being filed by the Company with the Securities and Exchange Commission (the "Commission") under the Securities Act of 1933, as amended (the "Securities Act"), relating to the Company's offering of up to an aggregate of up to \$50,000,000 of any combination of: (i) ordinary shares, NIS 0.01 per share, of the Company ("Ordinary Shares"); (ii) warrants to purchase Ordinary Shares ("Warrants"); and (iii) purchase units consisting of Ordinary Shares and Warrants ("Units"); and (iv) the Ordinary Shares that may be issued upon the exercise of the Warrants or in connection with the Units, as applicable. The Ordinary Shares, Warrants and Units are referred to herein collectively as the "Securities." The Securities may be issued and sold or delivered from time to time as set forth in the Registration Statement, any amendment thereto, the prospectus contained therein (the "Prospectus") and supplements to the prospectus (the "Prospectus Supplements") and pursuant to Rule 415 under the Securities Act.

The Warrants will be issued under one or more Warrant Agreements (each, a "Warrant Agreement"), each to be between the Company and a counterparty or counterparties identified therein (each, a "Counterparty"). The Units will be issued under a unit agreement (each, a "Unit Agreement"), each to be between the Company and a Counterparty.

In connection with our representation of the Company, and as a basis for the opinions hereinafter set forth, we have examined originals, or copies certified or otherwise identified to our satisfaction, of the following:

- (1) the Registration Statement;
- (2) the Company's Articles of Association, as amended to the date hereof (the "Charter"); and
- (3) such other documents and records and other certificates and instruments and matters of law as we have deemed necessary or appropriate to express the opinions set forth below, in each case subject to the assumptions, limitations and qualifications stated herein.

In rendering the opinions set forth below, we have assumed the genuineness of all signatures, the legal capacity of natural persons, the authenticity of all documents submitted to us as originals, the conformity to original documents of all documents submitted to us as duplicates or certified or conformed copies and the authenticity of the originals of such latter documents. We have also assumed that (i) at the time of execution, countersignature, issuance and delivery of any Warrants, each Warrant Agreement will be the valid and legally binding obligation of each Counterparty thereto and (ii) at the time of execution, countersignature, and issuance and delivery of any Units, each Unit Agreement will be the valid and legally binding obligation of each Counterparty thereto.

As to matters of fact material to this opinion, we have relied to the extent we deemed reasonably appropriate upon representations or certificates of officers or directors of the Company, without independently verifying the accuracy of such documents, records and instruments.

Greenberg Traurig, P.A. | Attorneys at Law

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In connection with the issuance of Warrants, we have assumed further that (i) at the time of execution, countersignature, issuance and delivery of any Warrant Agreement, such Warrant Agreement will have been duly authorized, executed and delivered by the Company, and (ii) the execution, delivery and performance by the Company of such Warrant Agreement will not violate the laws of any jurisdiction (provided that as to the federal laws of the United States we make no such assumption).

In connection with the issuance of Units, we have assumed further that (i) at the time of execution, countersignature, issuance and delivery of any Unit Agreement, such Unit Agreement will have been duly authorized, executed and delivered by the Company, and (ii) the execution, delivery and performance by the Company of such Unit Agreement will not violate the laws of any jurisdiction (provided that as to the federal laws of the United States we make no such assumption).

We have further assumed that: (i) the Registration Statement and any amendments thereto will be effective under the Securities Act, that no stop orders will have been issued by the Commission with respect to the Registration Statement and that the Registration Statement will comply with all applicable laws at the time the Securities are offered or issued as contemplated by the Registration Statement; (ii) an appropriate Prospectus Supplement, free writing prospectus or term sheet relating to the Securities offered thereby will have been prepared and filed with the Commission in compliance with the Securities Act and will comply with all applicable laws at the time the Securities are offered or issued as contemplated by the Registration Statement; (iii) all Securities will be issued and sold in compliance with the applicable provisions of the Securities Act and the securities or blue sky laws of various states and in the manner stated in the Registration Statement and the applicable Prospectus Supplement; (iv) any purchase, underwriting or similar agreement relating to Securities being offered will have been duly authorized, executed and delivered by the Company and the other parties thereto; and (v) in connection with the issuance of any Securities, an adequate number of authorized and unissued Ordinary Shares will be available for issuance under the Charter, as then in effect.

Based upon and subject to the foregoing, and subject to the assumptions, limitations and qualifications stated herein, we are of the opinion that:

- (1) With respect to the Warrants, assuming (i) the taking of all necessary corporate action by the Company's board of directors (the "Board") to approve the execution and delivery of each Warrant Agreement and (ii) the due execution, countersignature, issuance and delivery of such Warrant Agreement upon payment of the consideration therefor provided for in the applicable definitive purchase, underwriting or similar agreement, or the Prospectus or a Prospectus Supplement approved by the Board and otherwise in accordance with the provisions of the applicable Warrant Agreement and such agreement, such Warrants will constitute valid and legally binding obligations of the Company enforceable against the Company in accordance with their terms.
- (2) With respect to the Units, assuming (i) the taking of all necessary corporate action by the Board to approve (x) the execution and delivery of the applicable Unit Agreements and (y) any Securities to be issued separately or as part of any such Units (ii) the due execution, countersignature, issuance and delivery of such Unit Agreements upon payment of the consideration therefor provided for in the applicable definitive purchase, underwriting or similar agreement, or the Prospectus or a Prospectus Supplement approved by the Board and otherwise in accordance with the provisions of the applicable Unit Agreements and such agreement, such Units will constitute valid and legally binding obligations of the Company enforceable against the Company in accordance with their respective terms.

The opinions set forth above are subject to (i) the effects of bankruptcy, insolvency, fraudulent conveyance, reorganization, moratorium and other laws now or hereafter in effect relating to or affecting creditors' rights generally, (ii) the effects of general equitable principles, whether enforcement is considered in a proceeding in equity or law, (iii) an implied covenant of good faith and fair dealing, (iv) the discretion of the court before which any proceeding for enforcement may be brought and (v) the unenforceability under certain circumstances under law or court decisions of provisions providing for the indemnification of or contribution to a party with respect to a liability where such indemnification or contribution is contrary to the public policy.

Greenberg Traurig, P.A. | Attorneys at Law

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This opinion letter is limited to the matters stated herein, and no opinions may be implied or inferred beyond the matters expressly stated herein. We assume no obligation to supplement this opinion if any applicable law changes after the date hereof or if we become aware of any fact that might change the opinion expressed herein after the date hereof.

We do not express any opinion herein concerning any law other than the laws of the State of New York and the federal laws of the United States.

We hereby consent to the filing of this opinion as an exhibit to the Registration Statement and to the use of the name of our firm therein. In giving this consent, we do not admit that we are within the category of persons whose consent is required by Section 7 of the Securities Act.

Very truly yours,

GREENBERG TRAUIG, P.A.

By: /s/ Greenberg Traurig, P.A.

Greenberg Traurig, P.A. | Attorneys at Law

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CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We consent to the incorporation by reference in this Registration Statement on Form F-3 of our report dated March 23, 2023 relating to the financial statements of Rail Vision Ltd. (the “Company”), appearing in the Annual Report on Form 20-F of the Company for the year ended December 31, 2022. We also consent to the reference to us under the heading “Experts” in such Registration Statement.

/s/ Brightman Almagor Zohar & Co.

Brightman Almagor Zohar & Co

Certified Public Accounts

A Firm in the Deloitte Global Network

Tel Aviv, Israel

April 3, 2023

Calculation of Filing Fee Tables

Form F-3
(Form Type)

Rail Vision Ltd.

(Exact Name of Registrant as Specified in its Charter)

Table 1: Newly Registered Securities and Carry Forward Securities

| | Security Type | Security Class Title | Fee Calculation or Carry Forward Rule | Amount Registered | Proposed Maximum Offering Price Per Unit | Maximum Aggregate Offering Price (1) | Fee Rate | Amount of Registration Fee |
|-----------------|-------------------------------|--|---------------------------------------|-------------------|--|--------------------------------------|-----------|----------------------------|
| Fees to Be Paid | Equity | Ordinary shares, par value of NIS 0.01 per share | | | | | | |
| | Other | Warrants | | | | | | |
| | Other | Units | | | | | | |
| | Unallocated (Universal) Shelf | Unallocated (Universal) Shelf | 457(o) | (2) | (3) | \$50,000,000 | 0.0001102 | \$ 5,510.00 |
| | | Total Offering Amounts | | | | | | \$ 5,510.00 |
| | | Total Fees Previously Paid | | | | | | — |
| | | Total Fee Offsets | | | | | | — |
| | | Net Fee Due | | | | | | \$ 5,510.00 |

- (1) The proposed maximum aggregate offering price per class of security will be determined from time to time by the registrant in connection with the issuance by the registrant of the securities registered hereunder and is not specified as to each class of security pursuant to instructions to Form F-3 under the Securities Act, as amended, or the Securities Act.
- (2) There are being registered hereunder such indeterminate number of the securities of each identified class being registered as may be sold by the registrant from time to time at indeterminate prices, with the maximum aggregate public offering price not to exceed \$50,000,000. Also includes such indeterminate number of securities of the registrant as may be issued upon exercise, conversion or exchange of these securities. Separate consideration may or may not be received for securities that are issuable upon exercise, conversion or exchange of other securities.
- (3) The proposed maximum aggregate price per unit of each class of securities will be determined from time to time by the registrant in connection with the issuance by the registrant of the securities registered hereunder and is not specified as to each class of securities pursuant to the General Instruction II.C. of Form F-3 under the Securities Act of 1933.