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Bank of America’s 2021 Automotive Summit

Casey Eichler, CFO

Louis Gerhardy, Corporate Development
Forward-Looking Statements

This presentation contains forward-looking statements that are subject to many risks and uncertainties. All statements made in this presentation other than statements of historical facts are forward-looking statements, including, without limitation, statements regarding Ambarella’s strategy, future operations, financial targets, future revenues, projected costs, prospects, plans and objectives for future operations, future product introductions, future rate of our revenue growth, the size of markets addressed by the company’s solutions and the growth rate of those markets, technology trends, our ability to address market and customer demands and to timely develop new or enhanced solutions to meet those demands, our ability to achieve design wins, and our ability to retain and expand our customer and partner relationships.

In some cases, you can identify forward-looking statements by terms such as "may," "will," "should," "could," "would," "expects," "plans," "anticipates," "believes," "estimates," "projects," "predicts," "potential," or the negative of those terms, and similar expressions and comparable terminology intended to identify forward-looking statements. We have based forward-looking statements largely on our estimates of our financial results and our current expectations and projections about future events, markets and financial trends that we believe may affect our financial condition, results of operations, business strategy, short term and long-term business operations and objectives, and financial needs as of the date of this presentation. Although these forward-looking statements are based upon information available at the time the statements are made and reflect management’s good faith beliefs, forward-looking statements inherently involve known and unknown risks, uncertainties and other factors that may cause actual results, performance or achievements to differ materially from anticipated future results. Important factors that could cause actual results to differ materially from expectations are disclosed in Ambarella’s annual reports on Form 10-K and quarterly reports and Form 10-Q filed with the Securities and Exchange Commission (the “SEC”), particularly in the sections titled “Risk Factors” and “Management’s Discussion and Analysis of Financial Condition and Results of Operations.” You should not place undue reliance on forward-looking statements, which speak only as of the date on which they are made. We do not undertake to update or revise any forward-looking statements after they are made, whether as a result of new information, future events, or otherwise, except as required by applicable law. Moreover, we operate in a very competitive and rapidly changing environment. New risks emerge from time to time. It is not possible for management to predict all risks, nor can we assess the impact of all factors on our business or the extent to which any factor, or combination of factors, may cause actual results to differ materially from those contained in any forward-looking statements we may make. In light of these risks, uncertainties and assumptions, the forward-looking events and circumstances discussed in this presentation may not occur and actual results could differ materially and adversely from those anticipated or implied in the forward-looking statements.

Before you invest, you should read the annual and quarterly reports and other documents Ambarella has filed with the SEC for more complete information about the company and its ordinary shares. Additional information will also be set forth in Ambarella’s future quarterly and annual reports and other filings made with the SEC from time to time. You may access these documents for free by visiting EDGAR on the SEC web site at www.sec.gov.
Ambarella Overview

Ambarella is an artificial intelligence ("AI") vision silicon company

- Ambarella developed over a 4 year period an AI processor architecture specifically optimized for video edge-endpoint applications. The integration of this deep neural network AI processor with the company’s state-of-the-art video processor yields a highly optimized computer vision ("CV") system-on-a-chip ("SoC").
- Cumulative investment into CV technology ~$480 million targeting automotive, security camera and other robotic applications.
- CV revenue 10%+ of FY2021 revenue and estimated to be at least 25% of FY2022 revenue. Three “waves” of CV revenue anticipated; professional security cameras (CY2020), smart home security cameras (CY2021) and automotive camera systems (CY2022-23).

Founded 2004, IPO (NASDAQ: AMBA) 2012

- Focused on video applications, always with the premise that video is a special type of data requiring an optimized chip architecture.
- Initially targeted human viewing applications with low-power and high-resolution SoCs for the consumer and security camera markets.
- New CV SoCs enable machines to visually perceive and make decisions, enabling higher levels of automation in multiple industries.

Strong and liquid balance sheet

- $441 million cash and marketable securities and no debt exiting Q4 FY2021 (January 31, 2021).
- Returned $176 million to shareholders via stock repurchases in the last 4 years.
Global Footprint – 785 Employees

>81% of employees are engineers and ~69% of the engineers are focused on software/algorithms

186
United States

HQ
Santa Clara, CA

60
Europe

195
China

328
Taiwan

5
Hong Kong

5
Korea

6
Japan

Manufacturing

Samsung Semiconductor

Preferred Partner Contract Design Houses

VisLab
Parma, Italy
• acquired 2015
• majority PhDs

US ODMs
• Jabil
• Flextronics

Founded and incorporated in Cayman Islands in 2004

Taiwan ODMs
• Chicony
• Sercomm
• Vivotek
• LiteOn
• WNC
• Ability

China ODMs
• Goertek
• Huaqin
• Kenxen

Preferred Partner ODMs

• Samsung Semiconductor
• Rhonda
• Teknique

• Chicony
• Sercomm
• Vivotek
• LiteOn
• WNC
• Ability
Ambarella Addresses the Edge Endpoints of the IoT Market

- The IoT endpoint market, the foundation of the pyramid, requires a fundamentally different SoC architecture versus the server-based network edge and datacenter layers.

- Ambarella is focused on IoT endpoints where low power, highly efficient processing, low latency and improved privacy and security are critical.

- IoT endpoint market is a high volume and diverse market.

Source: Ambarella, Omdia/IHS, 2019
Ambarella’s Computer Vision System-on-a-Chip

Differentiated with a critical mass of state-of-the-art video processing know-how as well as the company’s “algorithm first” approach

Programmable Computer Vision SoC Platform
with Optimized Coprocessor Acceleration

Video Compression

Image Processing

CVflow Deep Neural Network AI processor

Leverages 16+ years of Video and Image Processing Experience

NEW
Proprietary CVflow architecture introduced in FY2019 after 3 years in R&D

(customer or 3rd party AI application software layer)
# CV5 the Latest Addition to Our Scalable Visual AI Portfolio

**AI in the Camera - Superior Performance per Watt and Performance per Dollar**

<table>
<thead>
<tr>
<th></th>
<th>CV28</th>
<th>CV25</th>
<th>CV22</th>
<th>CV22FS (ASIL B)</th>
<th>CV2</th>
<th>CV2FS (ASIL B)</th>
<th>CV5</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Video Processing</strong></td>
<td>Up to 3x cameras*</td>
<td>Up to 2x cameras*</td>
<td>Up to 3x cameras* and stereo support</td>
<td>Up to 6x cameras* and stereo support</td>
<td>Up to 3x cameras* and stereo support</td>
<td>Up to 14x cameras*</td>
<td></td>
</tr>
<tr>
<td>5 MP sensors at 30 frames per second**</td>
<td>8 MP sensors at 15 frames per second**</td>
<td>8 mega pixel (MP) sensors at 30 – 60 frames per second**</td>
<td>32 MP sensors up to 60 FPS**</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Computer Vision AI Processing</strong></td>
<td>CVflow® Deep Neural Network AI Processor (software tools port from TensorFlow, Caffe, ONNX, etc.)</td>
<td>CVflow® Deep Neural Network AI Processor (software tools port from TensorFlow, Caffe, ONNX, etc.)</td>
<td>Baseline (CVflow DNN AI)</td>
<td>4x CV22 AI</td>
<td>2x CV22 AI</td>
<td>3.5x CV22 AI</td>
<td></td>
</tr>
</tbody>
</table>

*additional cameras can be supported using external SERDES

**video processing trade-offs available between frames-per-second, resolution, and the number of cameras supported
Large and Growing SAM – Led by Automotive

- **Automotive** the largest SAM opportunity (15%-20% revenue in FY21)
- **IoT-Security** with the highest Ambarella market share (~60% revenue FY21)
- **IoT-Other** offers the highest CAGR
Automotive - ADAS and Autonomous Sensor Units

- Cameras initially used in vehicles for human viewing applications
- In the last ~5 years, improved video quality (resolution, HDR, low-light) and deep neural network processors (e.g. Cvflow) have allowed the vast amount of data from camera sensors to be practically utilized as sensors to enable the vehicle to perceive the environment and make decisions based on the visual data
## Automotive Camera System Target Markets

15%-20% fiscal 2021 total revenue

<table>
<thead>
<tr>
<th>Ambarella</th>
<th>Recorders /Dataloggers</th>
<th>Forward-facing ADAS</th>
<th>eMirrors</th>
<th>In-Cabin</th>
<th>L2+</th>
<th>L4/L5 Part-time + Full-time Autonomous</th>
</tr>
</thead>
<tbody>
<tr>
<td>CY2019 SAM</td>
<td>~$250M</td>
<td>&gt;$1B</td>
<td>&gt;$2B</td>
<td>~$100M</td>
<td>~$100M</td>
<td>~$25M</td>
</tr>
<tr>
<td>New Vehicle Penetration 2019</td>
<td>&lt;10%</td>
<td>45% to 50%</td>
<td>~1.0%</td>
<td>~1.0%</td>
<td>&lt;1.0%</td>
<td>&lt;0.1%</td>
</tr>
<tr>
<td>Ambarella F2021 Revenue</td>
<td>Majority of auto revenue</td>
<td>New</td>
<td>New</td>
<td>New</td>
<td>New</td>
<td>New</td>
</tr>
<tr>
<td>Products (Examples)</td>
<td>A12 H22</td>
<td>CV25, CV5</td>
<td>CV22 CV22FS CV2 CV2FS</td>
<td>A12 H22</td>
<td>CV22/FS CV2/FS CV5</td>
<td>CV22 FS CV22FS CV2 CV2FS</td>
</tr>
<tr>
<td>Target Customers</td>
<td>Retail (aftermarket)</td>
<td>Tier 1s (pre-install)</td>
<td>Tier 1s</td>
<td>Tier 1s</td>
<td>Tier 1s</td>
<td>OEMs</td>
</tr>
<tr>
<td>Applications &amp; Examples</td>
<td>Human Viewing (e.g. event reconciliation, scoring, insurance)</td>
<td>Human Viewing + Computer Vision (e.g. L0 - L3 ADAS)</td>
<td>Computer Vision (e.g. emergency braking, lane keep assist, etc.)</td>
<td>Human Viewing (e.g. fuel efficiency, improved field-of-view, etc.)</td>
<td>Human Viewing + Computer Vision (e.g. blind spot detection, L0-L4 ADAS)</td>
<td>Human Viewing + Computer Vision (e.g. driver scoring, event reconciliation, training, insurance)</td>
</tr>
</tbody>
</table>

Enable Tier 1s to differentiate with combo products on 1 SoC

Source: TSR, Strategy Analytics, Ambarella
## Sensor Suite Trends in the Automotive Industry

Cameras expected to generate a vast majority of the data in a 3D point cloud - at all levels of autonomy

### PERCEPTION SENSOR SUITES

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Model</th>
<th>System</th>
<th>Level of Autonomy</th>
<th>Camera</th>
<th>Long-Range Radar</th>
<th>Mid-Range Radar</th>
<th>LiDAR</th>
<th>Ultrasonic</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PRODUCTION VEHICLES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tesla (2017)</td>
<td>Model S, X</td>
<td>Autopilot 2.0</td>
<td>2</td>
<td>8</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>12</td>
</tr>
<tr>
<td>MBZ (2016)</td>
<td>E Class</td>
<td>DRIVE Pilot</td>
<td>2</td>
<td>2 (Stereo)</td>
<td>1</td>
<td>4</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td>Audi (2018)</td>
<td>A8</td>
<td>AI Traffic Pilot</td>
<td>3</td>
<td>5</td>
<td>1</td>
<td>4</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>Nissan (2016)</td>
<td>Rogue, Serena</td>
<td>ProPILOT</td>
<td>2</td>
<td>1</td>
<td></td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Nissan (2019)</td>
<td>Skyline, Q50</td>
<td>ProPILOT 2.0</td>
<td>2+</td>
<td>7</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>12</td>
</tr>
<tr>
<td>Tesla (2019)</td>
<td>Model 3</td>
<td>Autopilot 3.0</td>
<td>2+</td>
<td>8</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>12</td>
</tr>
<tr>
<td>GM (2017/18)</td>
<td>CT6</td>
<td>Super Cruise</td>
<td>2</td>
<td>5</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td><strong>FUTURE VEHICLES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Mobileye (2021)</td>
<td>Geely Models</td>
<td>SuperVision</td>
<td>2+</td>
<td>11</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>GM (2021+)</td>
<td>Cruise</td>
<td>Cruise</td>
<td>5</td>
<td>16</td>
<td>11</td>
<td>10</td>
<td>5</td>
<td>0</td>
</tr>
<tr>
<td>Amazon/Zoox</td>
<td>Full-stack</td>
<td></td>
<td>5</td>
<td>14</td>
<td>10</td>
<td>8</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Mobileye (2025-)</td>
<td>Full-stack</td>
<td></td>
<td>5</td>
<td>11</td>
<td>6</td>
<td>1</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Uber (2019+)</td>
<td>Ford Fusion</td>
<td>Driverless System</td>
<td>5</td>
<td>20</td>
<td>7</td>
<td>7</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

*Average of 1.5 cameras pre-installed per vehicle globally in CY2020*

Ambarella’s current opportunity is to provide the processing for the cameras in the perception layer. In the future, Ambarella expects to provide the processing for the fusion, planning and control layers in a partially or fully autonomous vehicle.

Note: Data in these exhibits refers to the sensors used to enable the referenced level of autonomy; the figures do not necessarily list all of the sensors embedded in the vehicle as some of these sensors are not used to automate the driving of a vehicle.

Source: ABI Research, company reports
Processing Layers in an L2+ to L4 Autonomy Stack

Stereo Camera Perception
- Obstacle Detection
- Terrain Mapping

Monocular Camera Perception
- Pedestrians
- Vehicles
- Motorcycles
- Traffic Signs
- Traffic Lights

Object Classification

Depth Sensor Perception
- Ultrasonic
- LiDAR
- Radar

Sensor Fusion
- Multiple Cameras
- Sensor Fusion
- Self Localization and Mapping

High Level Control
- Path Planning

Perception
- (camera, radar, lidar, ultrasonic sensors)

Domain Controller
- (sensor fusion)

Central Processing
VisLab: 25+ Years of CV Technology Development
Focused on Autonomous Driving Applications

- Acquired in 2015, spun-out from the University of Parma (Italy) in 2009
- Recognized globally for computer vision software expertise applied to autonomous vehicle applications
- Set worldwide milestones for autonomous driving, participating in multiple DARPA challenges
- Consistent track record of innovation

Prometheus ADAS demo on closed track
VisLab’s AV drove in downtown Parma

1993-1994
Fully manual

1995
Mille Miglia 2000+km on Italian highways 94% autonomous steering

1997
VisLab’s AV drove in downtown Parma

1998
Porter 2009-now
4 fully autonomous electric vehicles

2000
TerraMax 2004-2007
Fully autonomous

2001-2002
Mille Miglia 2000+km on Italian highways 94% autonomous steering

2003
DARPA Grand 132 miles off-road 100% AV, driveless

2004
BRAIVE 2008-now
4 fully autonomous electric vehicles

2005
DARPA Urban driving 100% AV, driveless

2006
VIAC 15km cross-continent drive 100% AV following

2007
PROUD 13km in Parma, 100% AV

2008
DEEVA 2014
Fully Autonomous with 13 stereo camera systems

2009
DEEVA CV integration 100% AV

2010
VW Tiguan 2017 4K sensors

2012
Porter 2009-now
4 fully autonomous electric vehicles

2013
BRAIVE 2008-now
4 fully autonomous electric vehicles

2014
DEEVA 2014
Fully Autonomous with 13 stereo camera systems

2015
DEEVA CV integration 100% AV

2016
VW Tiguan 2017 4K sensors
Motional Selects Ambarella CVflow AI Vision Processors for its Driverless Vehicles

- Ambarella’s CV SoCs will be part of the central processing module in Motional’s driverless vehicles, providing image and computer vision processing for cameras in the sensing suite, including the front-facing cameras.

- “Ambarella’s processors provide the AI performance, low power consumption, and advanced image processing necessary for the camera perception to perform well under all conditions. This supports the safe operation of our vehicles as we bring driverless technology to consumers worldwide.” (Joaquín Nuño-Whelan, vice president of hardware, Motional)

- Motional is leading the industry in making driverless vehicles a reality; the company recently became among the first in the world to put driverless vehicles on public roads, and announced a landmark agreement with Lyft for the largest deployment of robotaxis on a major rideshare network.
Ambarella’s Global Automotive Footprint
OEM, Tier 1’s, and Tier 2’s

**Computer Vision**
(Video Processor and AI Processor “CVflow”)
- Motional
- Hella Aglaia
- Yutong
- Momenta
- Eyesight
- Longhorn Automotive
- MotorEye
- MINIEYE

**Human Viewing**
(Video Processor only)
- DENSO TEN
- Longhorn Automotive
- PSA Groupe
- TOYOTA
- NISSAN
- Mercedes-Benz
- Geely
- MINIEYE
- JVC
- HONDA
- GENTEX

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Automotive Revenue Funnel

Won + Pipeline = Automotive Revenue Funnel

**Pre-pipeline** – not in the funnel
Potentially indicative of future pipeline activity
Customers who purchase engineering lots, evaluation hardware, software development kits and/or development boards for automotive applications

**Pipeline** – in the bidding process ~35%
Majority CV SoCs for ADAS/AD as well as video processors for human viewing
2 discount factors: (1) probability of winning design and (2) confidence in customers’ revenue forecast

**Won** – notified we have won design ~65%
Majority CV SoCs as well as video processors for human viewing
1 discount factor: confidence in customers’ revenue forecast

Automotive revenue funnel data provided on November 23, 2020 as of October 31, 2020

Estimated Lifetime Revenue

~$600M
“Security Camera” Market
~60% fiscal 2021 total revenue

- “Security camera” market transformation
  - A CV enabled camera collects and processes data for a machine’s perception and simultaneously generates an image for human viewing
  - Addressable market expands from humans to include machines
  - Customer software on our CV SoCs enables new data driven camera applications and new business models for our customers
  - Machines can take advantage of video innovations that human eyes can’t

- ~900M “security camera” installed base C2020
  - Installed base today is almost all human viewing (“2G” video processors) primarily deployed for security applications
  - The human viewing installed base is expected to continue to grow while the installed base for machine perception is just beginning
  - Replacement rate estimated between 4 to 6 years

- Annual Unit Shipments ~260 million in C2020
  - ~75% professional (enterprise and smart city) and ~25% smart home
  - “3G” CV SoCs command a ~2x ASP versus a similar 2G video processor
  - “1G” analog camera market expected to continue to shrink

Source: Ambarella, IHS, Strategy Analytics, TSR
Ambarella’s Global Security Camera Footprint

Enabling Most Major Enterprise, Smart City and Smart Home Camera Companies

Professional Security

Enterprise — Retail — Smart Cities — ITS — Smart Parking

Home Security

Home Security — Smart Home Automation — Delivery Services

- FLIR
- Canon
- Axis
- Pelco
- Motorola
- Verkada
- Dynacolor
- Alhua
- Johnson Controls
- Honeywell
- Tyco
- Panasonic
- I-Pro
- Vivotek
- STANLEY
- Hanwha
- Bosch
- HIKVISION
- IDIS
- Amazon
- Ring
- Alarm.com
- Comcast Xfinity
- Logitech
- Xiaomi
- ADT
- Swann
- Google Nest
- LifeShield
- SimpliSafe
- Vivint
- The Blackstone Group
## Competitive Landscape is Fragmented

Ambarella’s visual AI processing expertise scales across multiple markets

<table>
<thead>
<tr>
<th>Security Cameras</th>
<th>Automotive Cameras</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Professional</td>
</tr>
<tr>
<td>Ambarella</td>
<td>✓</td>
</tr>
<tr>
<td>HiSilicon (Huawei)</td>
<td>✓</td>
</tr>
<tr>
<td>HiSilicon (Huawei)</td>
<td></td>
</tr>
<tr>
<td>Mobileye (Intel)</td>
<td>✓</td>
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<td>Movidius (Intel)</td>
<td>✓</td>
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<td>Nvidia</td>
<td>✓</td>
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<td>Nvidia</td>
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<tr>
<td>NXP</td>
<td>✓</td>
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<tr>
<td>Qualcomm</td>
<td>✓</td>
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<td>Qualcomm</td>
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<tr>
<td>Renesas</td>
<td>✓</td>
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<tr>
<td>SigmaStar</td>
<td>✓</td>
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<tr>
<td>Texas Instruments</td>
<td>✓</td>
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<tr>
<td>Texas Instruments</td>
<td></td>
</tr>
<tr>
<td>Xilinx</td>
<td>✓</td>
</tr>
<tr>
<td>(IP Cores)</td>
<td>✓</td>
</tr>
<tr>
<td>Cadence, CEVA, etc.</td>
<td></td>
</tr>
<tr>
<td>(Others)</td>
<td>✓</td>
</tr>
<tr>
<td>(Others)</td>
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Access to leading edge manufacturing technology suspended
Emerging Opportunities
Includes home, enterprise and public driven investments

ID/Authentication for access control and smart lock applications
- Use of biometric technology (e.g. face ID) to identify and authenticate individuals for access control in enterprise, smart home and public applications including access control panels, smart locks and payment terminals
- Low cost single-camera fusion of multiple sensors for optimal accuracy

Robotics platform announced at CES 2020
- Robotic software development kit (“SDK”) is a unified software infrastructure targeting home, factory and enterprise-class robotics for assistance, automation, cleaning, delivery, surveillance, warehouse, etc.
- SDK provides access and acceleration for common robotic functions including stereo, object detection, key points tracking, occupancy grid, visual odometry.

Sensing and counting cameras
- Analyze capacity, monitor elderly, customer patterns, foot traffic, line counting, social distancing, property management, and HVAC control for energy efficiency while maintaining privacy and not recording

Images represent potential customers and their applications
Q4 (January 2021) and F2021 Recap

>11 Customer Engagements Announced Including >7 Incorporating Ambarella’s CV SoCs

<table>
<thead>
<tr>
<th>Market</th>
<th>Application</th>
<th>Customer/Partner</th>
<th>Product</th>
<th>AMBA SoC</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automotive</td>
<td>OEM, T1, and partner</td>
<td>&gt;4 Automotive Customers/Partners</td>
<td>CVflow Multiple CV SoCs in sensing suite in central processing module, including front-facing cameras</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Security</td>
<td>&gt;6 Security Camera Customers</td>
<td>&gt;3 Enterprise/Public, 3 Home</td>
<td>CV25, CV28 Wins with several T1s for several leading Chinese OEMs for driver and/or cabin monitoring</td>
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<tr>
<td>Enterprise</td>
<td>&gt;3 Enterprise/Public</td>
<td>&gt;4 CV</td>
<td>AMBA SoC</td>
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<tr>
<td>Public</td>
<td>&gt;1 Security Home</td>
<td>Logitech Circle View S5LM Leverages Apple’s HomeKit Secure Video for seamless experience</td>
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<td></td>
</tr>
<tr>
<td>Business</td>
<td>&gt;1 Security Enterprise/Public</td>
<td>Hanwha-Techwin (multiple) CV2, CV22, S3L 4-channel panoramic, 3-channel multi-directional, 5M pixel corner mount</td>
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<tr>
<td>Residential</td>
<td>&gt;1 Security Home</td>
<td>IDIS (multiple) CV22, S5L, S3L Models include fisheye, 5MP and 8MP and leverage intelligent Codecs</td>
<td></td>
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<tr>
<td>Other</td>
<td>&gt;1 Security Enterprise/Public</td>
<td>Dallmeier Panomera S CV22 Multiple lenses+sensors with differential focal lengths to improve resolution across range</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>&gt;1 Other Customer</td>
<td>Genius Pro (counting camera) CV25 ToF+CIS sensor fusion with AI to provide high accuracy people counting</td>
<td></td>
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</tbody>
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F2021 Recap

>54 Customer Engagements Announced Including >30 Incorporating Ambarella’s CV SoCs

| Automotive  | >17 Automotive Customers/Partners | >30 Security Camera Customers | CVflow Multiple CV SoCs in sensing suite in central processing module, including front-facing cameras |
| Security    | >30 Security Camera Customers | >22 Professional Security, >8 Home | CV2, CV22, S3L 4-channel panoramic, 3-channel multi-directional, 5M pixel corner mount |
| Enterprise  | >22 Professional Security | >19 CV | CVflow Multiple CV SoCs in sensing suite in central processing module, including front-facing cameras |
| Public      | >19 CV | >7 Other Customers | Sensing, 3 Wearables, 2 Camera + 1 Drone |
| Business    | >7 Other Customers | 1 Sensing, 3 Wearables, 2 Camera + 1 Drone |
| Residential | >7 Other Customers | 1 Sensing, 3 Wearables, 2 Camera + 1 Drone |
| Other       | >7 Other Customers | 1 Sensing, 3 Wearables, 2 Camera + 1 Drone |
Q4 FY2021 (January 2021) Review and Q1 Outlook
(Q4 FY2021 results and Q1 FY2022 outlook provided March 2, 2021)

**Q1 FY2022 (April, 2021) Outlook**
- Our Q1 revenue guidance is in the range of $67.0 million to $70.0 million versus the March 1st sell-side consensus estimate ~$56.1 million.
- On a sequential basis, we anticipate Auto revenue will increase at least 20%, Security revenue is estimated to increase in the low to mid teens, with Other revenue estimated to be down ~20%.
- We estimate Q1 non-GAAP gross margin between 59.5% to 61.5% with non-GAAP operating expense in the $34.0 to $36.0 million range.

**Q4 FY2021 (January, 2021) Results**
- Revenue of $62.1 million was ~4% above the high-end of our guidance range of $56.0 million to $60.0 million and the March 1st consensus estimate ~$58.1 million.
  - Auto increased more than 20% sequentially and on a year-over-year basis with Security up ~20% sequentially and Other was down sequentially.
- Non-GAAP gross margin was 61.4% versus the consensus estimate of 60.1%.
- Non-GAAP EPS were $0.14 versus the consensus estimate of $0.08.

**Despite the turbulent environment, we are making solid progress in our multi-year transformation**
- AI computer vision is becoming pervasive, we are embedding it in all our new products and we have growing evidence of market acceptance.
- We see a wide variety of risks outstanding, including pandemic, geopolitical and supply chain factors. These risks include*:
  - risks associated with the COVID-19 pandemic
  - potential export regulations on advanced technologies
  - the risk customers in China continue to take actions to reduce their dependence on components they believe could be subject to new export controls, including the creation of dual China/non-China supply chains
  - changes to tariffs and/or the Entity List
  - market share shifts between our customers
  - supply chain issues such as expanding leadtimes, shortages of materials and manufacturing capacity, and adverse weather conditions
- Our largest competitor in the security camera SoC market, HiSilicon, a unit of Huawei, is facing headwinds of their own.

*Potential risk factors that could affect our financial results are more fully described in the documents that we file with the SEC, including annual reports on Form 10-K and quarterly reports on Form 10-Q.
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Corporate Development