Bringing Devices to Life



# Nasdaq: DAIO

Anthony Ambrose September 25, 2020

## Safe Harbor

The matters that we discuss today will include forward-looking statements that involve risks factors that could cause Data I/O Corporation's results to differ materially from management's current expectations. We encourage you to review the Safe Harbor statement contained in the earnings releases as well as our most recent SEC filings for a complete description. Additionally, those forward-looking statements are made as of today, and we take no obligation to update them.



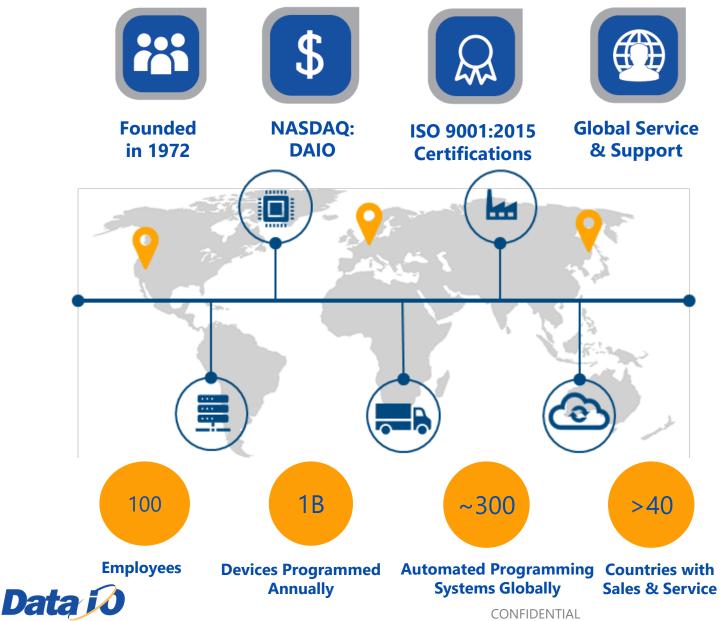
## **Immediate Term – COVID-19**

- Protecting our team and facilities
  - Quick transition of global work from home for 85% of employees
  - Strict policies for the health and safety of our essential workers
  - Tools for global collaboration
- Continuing to serve our customers as an essential supplier
  - Remote install & diagnostics capability keep our customer's factories running
  - Quick deploy program for new medical device customers as they retool production to support COVID-19 efforts
  - Securing new devices & systems against hacking
- Maintaining our strong financial position with controlled expense management
  - Automotive Electronics market recovering from Q2 bottom



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## At a Glance



#### What We Do

Silicon Device Programming Equipment Security Deployment as-a-Service

#### Solutions

We deliver the most secure and efficient systems to deploy firmware, data and secrets into IoT and automotive devices in high volume electronics manufacturing

## **Company Snapshot**

#### **Recent Achievements and Trends**

- COVID-19 impact will result in operating losses for 2020. Reduced spending with cash preservation goal for 2020
- Strong momentum in Automotive and IoT devices
  - 8 of top 9 and 16 of top 20 Automotive Electronics companies are customers
  - ~60% of revenue from Automotive Electronics customers
- Expanding new markets with introduction of PSV2800
- Industry and technology awards for Lumen<sup>®</sup>X, Universal Flash Storage (UFS) support, PSV systems and SentriX<sup>®</sup> platform
- Over 300 PSV systems sold. 1 Billion units/year capacity in the installed base
- Traction for SentriX Security Provisioning Platform

#### **Committed to Growing Shareholder Value**

- Focusing programmable core competencies on higher growth, higher margin vertical markets with greater recurring/consumable sales
- Differentiated market position through technology leadership and global support
- Approx. 16% of stock held or managed by insiders so that management and Board are aligned with shareholders
- 3 buybacks since 2012 for \$8.1 million returned to shareholders

#### Company Snapshot <sup>(1)(2)</sup>

NASDAQ:	DAIO
Headquarters:	Redmond, WA
Established:	1972
Stock Price:	\$3.19
Market Cap:	\$26M
Diluted Shares:	8.3M
3-M Daily Avg. Volume:	24,000 shares
Sales (TTM):	\$19.1M
Net Income (TTM):	\$(3.0)M
Diluted EPS (TTM):	\$(0.27)
Adj. EBITDA <sup>(3)</sup> (TTM):	\$(719,000)
Cash & Sec. (6/30/20):	\$13.3M (\$1.60/share)
Debt (6/30/20):	\$0.0

- (1) Stock price, market cap and volume as of 9/17/20; Source: Yahoo
- (2) Financials for the TTM period ended 6/30/20 or as noted
- (3) Adj. EBITDA is a non-GAAP financial measure. A reconciliation is provided in this presentation



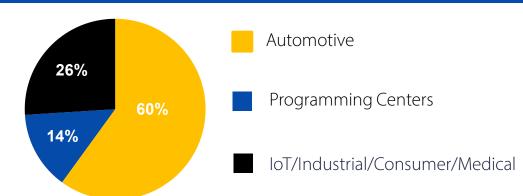
## **Supporting the Secure Digital World**

Data I/O's programming systems are used by the world's leading manufacturers, programming centers, and contract manufacturers, to securely program integrated circuits and bring their devices to life.

Semi Supplier	OEM $\longrightarrow$ Programming Center $\longrightarrow$ Final Assembly $\longrightarrow$	Post Production
Develop	Manufacture: OEMs, Contract Manufacturers, Programming Centers	Consume: End Users
Circuits to be programmed: Flash Memory Microcontrollers Secure Elements	<b>Data </b> Data Programming and Security Provisioning Systems	Final Products
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## **Serving Customers Globally in Growing Markets**

- The largest programming company in the market, 2x larger than nearest competitors
- Trusted supplier to 8 out of the top 9 automotive electronics suppliers
- Providing mission critical medical applications for Class I and II devices
- Global footprint with headquarters in Redmond, WA, USA and subsidiary offices in Shanghai, China and Munich, Germany



#### 2019 Annual Orders by End Markets



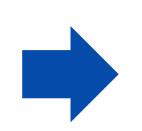
## How Data I/O Markets Grow

#### **Market Forces**

#### IoT and Automotive Growth

- More Semiconductor Content
- Devices Get Smaller
- Move Towards Automation

Products will increase their code size as customers want more features



#### **Programming Impact**



**Bit Growth** 

Products will be more secure, creating new opportunities



Added Complexity + Security Requirements

### *Programming Demand* = *Units x Bits x Security*

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## **Market Leading Technology**

#### **Industry Leading Products**

#### Automated Handlers



**Programming Engines** 



Security Deployment Platforms



#### **History of Innovation**

Data I/O's products are viewed as the "gold standard" for advanced programming equipment, IP management and security solutions

Research and Development focused on:

- Security Deployment Platform technology for Internet of Things and Automotive applications
- Programming technology to support explosive demand for automotive electronics using large FLASH Memory and microcontroller devices
- Integration into the Cloud and Factory MES Systems

During the past 15 years, Data I/O has been granted ~50 U.S. and International utility patents. Currently, Data I/O has ~20 U.S. and International utility patents pending

#### **35 Industry Awards**



Service Excellence Award for World-Class **Device Programming** 



NPI Award & Mexico Technology Award for New **Job Composer** Software Application



Technology Award, 5<sup>th</sup> Industry Award for Universal Flash Storage (UFS) Support on LUMEN

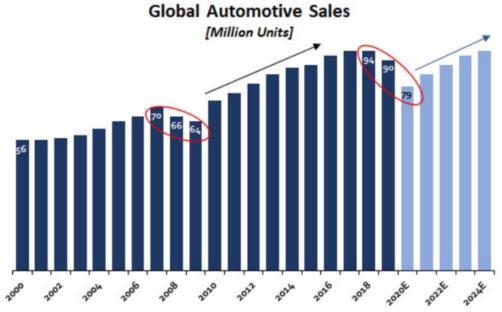
## **Market Outlook**



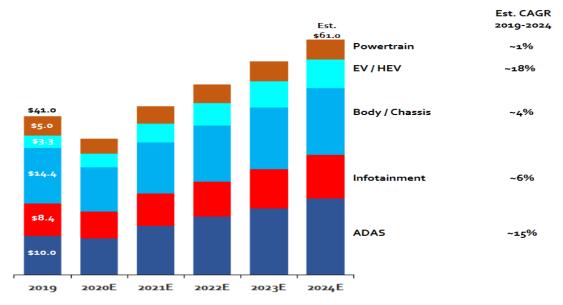
## **Automotive Recovery Driven by Electronics Content Growth**

...while Automotive units may take years to rebound from recent declines....

IC content per vehicle estimated to increase 55% from\$450 in 2018 to \$700 by 2022 according to Gartner, driven by Growth in EV and Hybrid Vehicles.



Automotive Semiconductor Forecast (\$ bn)



Source: Gartner - Semiconductor Forecast Database, Worldwide, Q1'20 Update

Source: Gartner (March 2020, December 2019)



## **Automotive Electronics Growth Areas**



Infotainment



ADAS/Autonomous Driving













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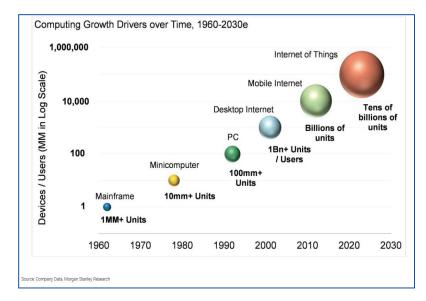
## **IoT Market Drivers - Multi-Year Secular Growth**

The IoT is forecast to be bigger than the mobile internet and desktop markets

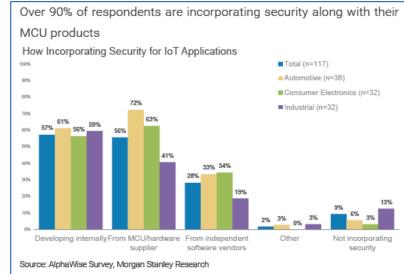
"We believe nearly every single industry will eventually migrate to an IoT model yielding 50 billion connected devices by 2020."

Needham & Company

## Security Issues are top of mind and must be addressed









## **IoT Device Security in Mass Production**



#### **Commercial Attributes**

- Low upfront cost
- No minimum order quantities
- Per Part-as-a-Service model
- Available globally



#### **Easy to Use**

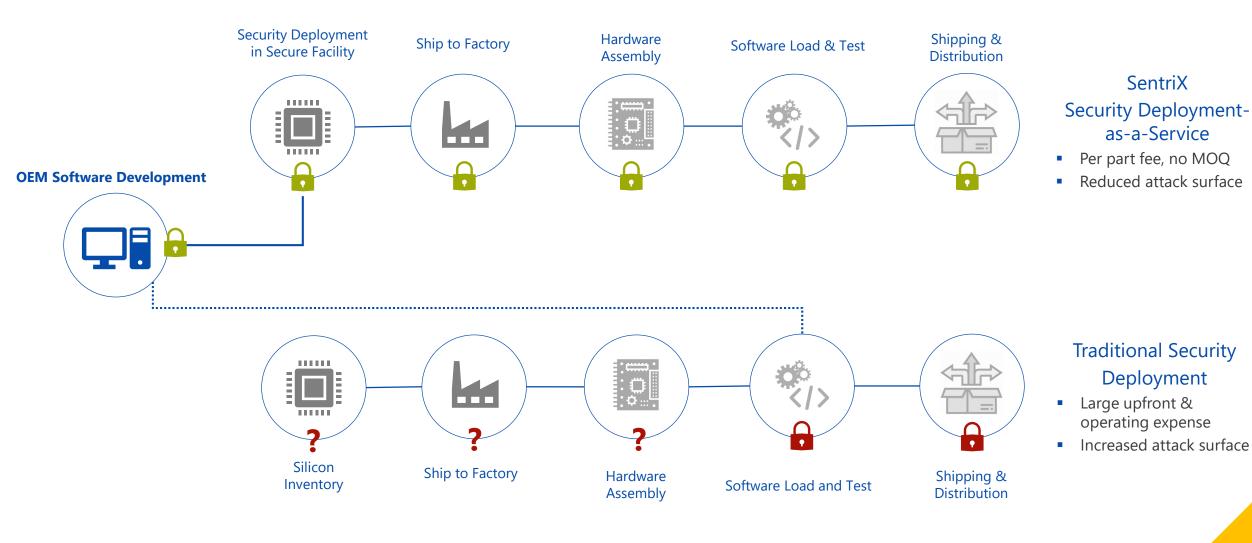
- Preconfigured security use cases
- Intuitive collaboration tool
- Low or high-volume production
- Optional services, e.g. automated cloud onboarding

#### **Robust Security**

- Pre-manufacturing assembly security deployment
- Authenticates parts
- Cryptographic protection of secrets & firmware
- Supports hardware Roots of Trust
- FIPS 140 compliant hardware security module (HSM)



## **Security Deployment-as-a-Service**



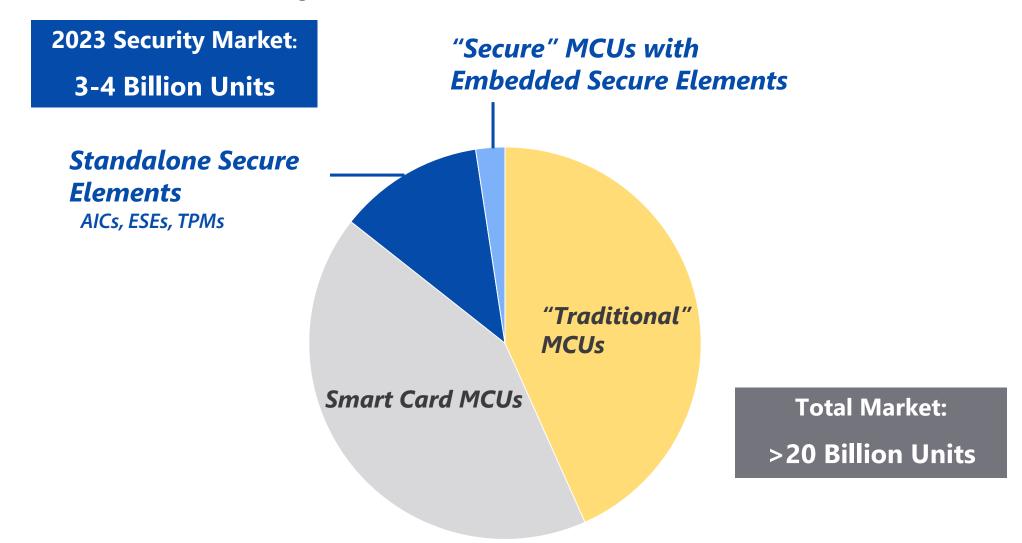
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**New Partnerships for Growth** 





## **Billions of Security Enabled Devices**



Source: ABI Research



## **Our Opportunity with SentriX**

The Internet of Things is a huge growth market, with security of supply chain and protection of firmware top of mind

Data I/O and SentriX Partners provide a scalable, easy to develop and deploy service for customers of all sizes. Initial applications are the 'tip of the iceberg' of what is possible with SentriX.

Data I/O can now scale SentriX capabilities to over 300 PSV family systems already deployed

Per Part Fee model drives high margin recurring revenue growth



## **Investment Merits: Positioned for Long-Term Growth**



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## **Financial Overview**



## **Financial Overview**

#### Second Quarter 2020 Highlights

- Net sales of \$4.7 million; bookings of \$5.0 million
- Gross margin as a percentage of sales of 52.4 %
- Net loss of (\$1,057,000) or (\$0.13) per share
- Adjusted earnings before interest, taxes, depreciation and amortization (EBITDA)\*, excluding equity compensation, of (\$231,000)
- Cash & Equivalents of \$13.3 million; no debt
- Automotive electronics, advanced programming and secure provisioning leadership
  - Automotive Electronics represented approximately 50% of second quarter 2020 bookings
  - Wins in UFS infotainment, vehicle electrification, and competitive replacement within the automotive sector
  - Win at Asia-based IoT manufacturer for multiple PSV family systems
  - 300th PSV family system deployed
  - Shipments began for the SentriX<sup>®</sup> supported PSoC 64 Standard Secure Amazon Web Services (AWS) microcontroller (MCU)



\*EBITDA and Adjusted EBITDA are non-GAAP financial measures. A reconciliation is provided in the tables of this press release.

## **Balance Sheet and Capital Structure Overview**

#### **Balance Sheet Highlights**

#### At June 30, 2020:

- \$13.3 million in cash and cash equivalents
- No debt
- \$18.0 million of net working capital
- Total stockholders' equity of \$20.3 million, or approx. \$2.45 per diluted share outstanding
- EV/Sales at 0.7x<sup>(3)</sup>
- NOLs of approximately \$13.0 million

#### Enterprise Value (\$K)

Market Cap <sup>(1)</sup>	\$ 26,400
Plus Total Debt <sup>(2)</sup>	0
Less Total Cash <sup>(2)</sup>	<u>\$ 13,300</u>
Enterprise Value	\$ 13,100
Diluted Shares Outstanding <sup>(2)</sup>	8,300,000
<sup>(1)</sup> At 9/17/20	
<sup>(2)</sup> At 6/30/20	

#### **Balance Sheet Strategy**

- Important to maintain strong balance sheet in a cyclical industry, with about 60% of revenues from capital equipment sales
- Financial flexibility allows the company to:
  - Withstand, and advance during, downturns in semi cycle and COVID-19
  - Invest in organic and acquisitive growth opportunities for the long term
  - Develop recurring revenue streams
- \$2 million buyback completed in quarter ended 9/30/19
- Approx. \$8.1 million returned to shareholders from buybacks authorized in '12, '16 and '18



## **Growing Recurring Revenue Mix**

#### **Capital Equipment**

- Approx. 58% of 2019 sales; 54% in 1H20
- Off-line and in-line programming systems ۲
- Automated systems cost \$68K-\$677K •
- Manual systems cost \$10K-\$52K ٠
- Usually last 5-7 years •
- Adapters fit to these products ٠
- Installed base drives recurring ٠ consumables sales



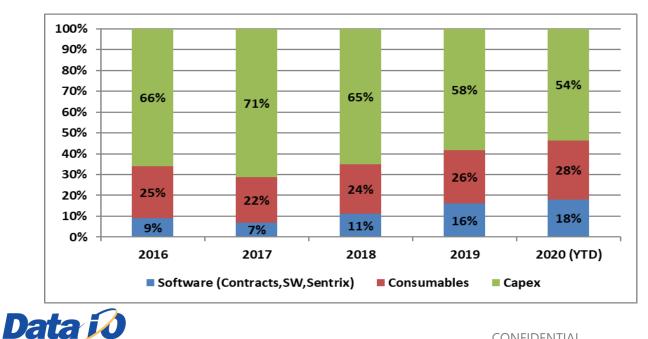
**Adapters** 

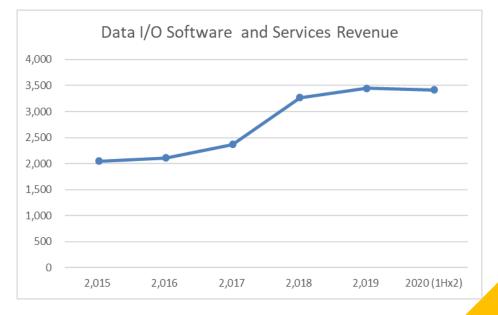
- Approx. 28% of 1H20 sales
- Usually last 3-24 months •

#### Software, SentriX, Service



- Approx. 18% of 1H20 sales ٠
- Annual Software/Service Contracts •
- **Device Supports** .
- SentriX Revenues





## **Operating Leverage Poised for Upcycle**

#### ■ Net Income ■ Cash ■ AEBITDA\* Revenue \$M \$40 \$30 \$20 \$10 2.8 \$0 2014 2015 2016 2017

Last Upcycle: 2014-2017

\*Adjusted EBITDA is a non-GAAP measure; reconciliation to GAAP provided.

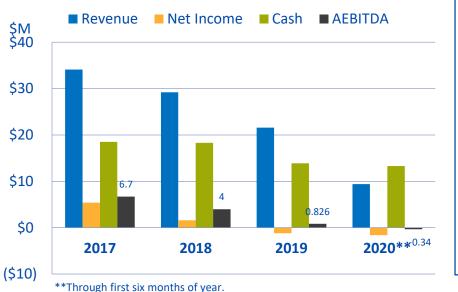
**Automotive Electronics** 

Top of 2017 Blew Away Top of Past Cycles

**Cash Generation;** 

**Continued Investment in R&D** 

#### Current Downcycle: 2017-2020



#### Last Upcycle: 2014-2017/2018

- PSV programming systems launched
- Revenue increased 56%
- Gross margin peaked at over 62%
- Net Income increased 390%
- Cash increased 97%
- . AEBITDA margin from 9.1% to 19.6%

#### Current Downcycle: 2018-2020

- Consumables increase as % of rev's
- Capital equipment break to upside in 4Q19 interrupted by COVID-19
- Gross margin bottomed at over 52%
- OpEx sustained near \$3.4M
- Cash ~\$4M higher than at 2014
- AEBITDA maintained near breakeven
- PSV installed base of 300+ drives service revenue
- SentriX launched

#### Next Upcycle:

- Automotive and SentriX Growth
- Improved gross margins
- Higher % of Recurring Revenue
- Operating Leverage accelerated

	Path to the Next Upcycle	Upcycle	
2017		•	
Revenue Driven by CAPEX explosion in	Increased Recurring Revenue	Automotive Rec	

Introduction of SentriX

Bottom '20 Cycle Better Vs. Prior Bottoms

**Cash Preservation** 

**Continued Investment in R&D** 

#### 2021/2022

**Automotive Recovery and SentriX Growth Profitability Growth** Strong Operating Leverage

**Significant Cash Generation Multiple Expansion with Security** 

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# **Thank You!**

For more information, please go to https://www.dataio.com/Company/Investor-Relations/Data-I-O-Profile



## **Backup Financial Reconciliation**



## **Adjusted EBITDA Reconciliation – 2Q20**

#### NON-GAAP FINANCIAL MEASURE RECONCILIATION

	Three Mont June		Six Month June	
	2020	2019	2020	2019
(in thousands)				
Net Income (loss)	(\$1,057)	\$127	(\$1,611)	\$153
Interest (income)	(1)	(10)	(9)	(22)
Taxes	97	27	102	(2)
Depreciation and amortization	249	220	447	424
EBITDA earnings (loss)	(\$712)	\$364	(\$1,071)	\$553
Equity compensation	481	364	730	651
Adjusted EBITDA earnings (loss), excluding equity compensation	(\$231)	\$728	(\$341)	\$1,204



### **Income Statement – 2Q20**

#### CONSOLIDATED STATEMENTS OF OPERATIONS (in thousands, except per share amounts) (UNAUDITED)

	Three Mont June		Six Month June	
	2020	2019	2020	2019
Net Sales Cost of goods sold Gross margin Operating expenses:	\$4,655 2,216 2,439	\$5,834 	\$9,440 <u>4,217</u> 5,223	\$11,892 <u>4,623</u> 7,269
Research and development	1,614	1,680	3,196	3,361
Selling, general and administrative	1,703	1,829	3,514	3,803
Total operating expenses	3,317	3,509	6,710	7,164
Operating income (loss) Non-operating income:	(878)	75	(1,487)	105
Interest income	1	10	9	22
Gain on sale of assets	-	-	-	60
Foreign currency transaction gain (loss)	(83)	69	(31)	(36)
Total non-operating income (loss)	(82)	79	(22)	46
Income (loss) before income taxes	(960)	154	(1,509)	151
Income tax (expense) benefit	(97)	(27)	(102)	2
Net income (loss)	(\$1,057)	\$127	(\$1,611)	\$153
Basic earnings (loss) per share	(\$0.13)	\$0.02	(\$0.19)	\$0.02
Diluted earnings (loss) per share	(\$0.13)	\$0.02	(\$0.19)	\$0.02
Weighted-average basic shares	8,302	8,257	8,261	8,280
Weighted-average diluted shares	8,302	8,332	8,261	8,375

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### **Balance Sheet – 2Q20**

#### CONSOLIDATED BALANCE SHEETS (in thousands, except per share data) (UNAUDITED)

(0101001110	June 30, 2020	December 31, 2019
ASSETS		
CURRENT ASSETS:		
Cash and cash equivalents	\$13,273	\$13,936
Trade accounts receivable, net of allowance for	+	+,
doubtful accounts of \$73 and \$80, respectively	2,840	4,099
Inventories	4,731	5,020
Other current assets	2,000	924
TOTAL CURRENT ASSETS	22,844	23,979
Property, plant and equipment – net	1,602	1,668
Income tax receivable	-	640
Other assets	1,717	1,994
TOTAL ASSETS	\$26,163	\$28,281
LIABILITIES AND STOCKHOLDERS' EQUITY		
CURRENT LIABILITIES:		
Accounts payable	\$908	\$1,151
Accrued compensation	1,304	1,541
Deferred revenue	1,334	1,387
Other accrued liabilities	1,259	1,372
Income taxes payable	64	31
TOTAL CURRENT LIABILITIES	4,869	5,482
Operating lease liabilities	834	1,178
Long-term other payables	150	91
COMMITMENTS	-	
STOCKHOLDERS' EQUITY		
Preferred stock -		
Authorized, 5,000,000 shares, including		
200,000 shares of Series A Junior Participating		
Issued and outstanding, none	-	
Common stock, at stated value -		
Authorized, 30,000,000 shares		
Issued and outstanding, 8,390,943 shares as of June 30,		
2020 and 8,212,748 shares as of December 31, 2019	19,319	18,748
Accumulated earnings	897	2,508
Accumulated other comprehensive income	94	274
TOTAL STOCKHOLDERS' EQUITY	20,310	21,530
TOTAL LIABILITIES AND STOCKHOLDERS' EQUITY	\$26,163	\$28,281



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## **Adjusted EBITDA Reconciliation – 2019**

#### NON-GAAP FINANCIAL MEASURE RECONCILIATION

	Three Mont Decemb		Twelve Mon Decemb	
	2019	2018	2019	2018
(in thousands)				
Net Income(loss)	(\$496)	\$648	(\$1,187)	\$1,606
Interest (income)	(6)	(11)	(53)	(37)
Taxes	(21)	24	31	291
Depreciation and amortization	196	219	868	955
EBITDA earnings(loss)	(\$327)	\$880	(\$341)	\$2,815
Equity compensation Adjusted EBITDA earnings(loss),	260	298	1,171	1,230
excluding equity compensation	(\$67)	\$1,178	\$830	\$4,045



## **Adjusted EBITDA Reconciliation – 2014-1H2020**

#### NON-GAAP FINANCIAL MEASURE RECONCILIATION

	Six Months			Twelve N			
	Ended June 30			Ended Dece	ember 31,		
(in thousands)	1H2020	2019	2018	2017	2016	2015	2014
Net Income (loss)	(\$1,611)	(\$1,187)	\$1,606	\$5,449	\$1,656	\$927	\$1,099
Interest (income) expense	(\$9)	(\$53)	(\$37)	(\$29)	(\$44)	(\$105)	(\$159)
Taxes	\$102	\$31	\$291	(\$288)	\$36	(\$5)	\$7
Depreciation and amortization	\$868	\$868	\$955	\$822	\$602	\$542	\$593
EBITDA earnings (loss)	(\$1,071)	(\$341)	\$2,815	\$5,954	\$2,250	\$1,359	\$1,540
Equity compensation Restructure charge	\$730 -	\$1,171	\$1,230 -	\$714 -	\$520 -	\$435 -	\$400 \$13
Adjusted EBITDA earnings (loss), excluding equity compensation and restructure charge	(\$341)	\$830	\$4,045	\$6,668	\$2,770	\$1,794	\$1,953



### **Income Statement – 2019**

#### CONSOLIDATED STATEMENTS OF OPERATIONS (in thousands, except per share amounts) (UNAUDITED)

Three Months EndedTwelve Months EndedDecember 31,December 31,	ed
2019 2018 2019 201	8
Net Sales \$5,868 \$7,857 \$21,568 \$29,3	224
Cost of goods sold 2,588 3,284 9,018 11,5	868
Gross margin 3,280 4,573 12,550 17,50	356
Operating expenses:	
Research and development 1,583 1,811 6,451 7,53	361
Selling, general and administrative 2,039 2,018 7,377 8,3	257
Total operating expenses 3,622 3,829 13,828 15,	618
Operating income(loss) (342) 744 (1,278) 1,	738
Non-operating income:	
Interest income 6 11 53	37
Gain on sale of assets 4 15 64	19
	103
	159
	897
Income tax (expense) benefit <u>21</u> (24) (31) (2	291)
Net income(loss) (\$496) \$648 (\$1,187) \$1,1	606
Basic earnings(loss) per share (\$0.06) \$0.08 (\$0.14) \$0	).19
Diluted earnings(loss) per share (\$0.06) \$0.08 (\$0.14) \$0	).19
Weighted-average basic shares8,2128,4318,2478,7	378
Weighted-average diluted shares8,2128,5098,2478,	514



### **Balance Sheet – 2019**

#### CONSOLIDATED BALANCE SHEETS (in thousands, except per share data) (UNAUDITED)

(U	December 31, 2019	December 31, 2018
ASSETS		
CURRENT ASSETS:		
Cash and cash equivalents	\$13,936	\$18,343
Trade accounts receivable, net of allowance for		
doubtful accounts of \$80 and \$75, respective	ely 4,099	3,771
Inventories	5,020	5,185
Other current assets	924	621
TOTAL CURRENT ASSETS	23,979	27,920
Property, plant and equipment – net	1,668	1,985
ncome tax receivable	640	598
Other assets	1,994	220
TOTAL ASSETS	\$28,281	\$30,723
LIABILITIES AND STOCKHOLDERS' EQUITY		
CURRENT LIABILITIES:		
Accounts payable	\$1,151	\$1,755
Accrued compensation	1,541	2,872
Deferred revenue	1,387	1,392
Other accrued liabilities	1,372	789
Income taxes payable	31	47
TOTAL CURRENT LIABILITIES	5,482	6,855
Operating lease liabilities	1,178	-
Long-term other payables	91	511
COMMITMENTS	-	-
STOCKHOLDERS' EQUITY		
Preferred stock -		
Authorized, 5,000,000 shares, including		
200,000 shares of Series A Junior Participa	ting	
Issued and outstanding, none	-	-
Common stock, at stated value -		
Authorized, 30,000,000 shares		
Issued and outstanding, 8,212,748 shares a	as of December 31,	
2019 and 8,338,628 shares as of December		19,254
Accumulated earnings	2,508	3,695
Accumulated other comprehensive income	274	408
TOTAL STOCKHOLDERS' EQUITY	21,530	23,357
TOTAL LIABILITIES AND STOCKHOLDERS' EC		\$30,723
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