

The logo for ASPEED, featuring a stylized red 'A' with horizontal stripes, followed by the word 'SPEED' in a bold, blue, italicized sans-serif font. The background of the slide is a blue sky with white clouds and a large, wavy blue ribbon graphic at the top.

ASPEED

Nov, 2018

Lili Wu

- Established in Nov. 15th , 2004
- Paid-In Capital: NTD 340M (USD 11.08M)
- Number of Employees: 86
- Location:
 - ASPEED Technology Inc.: Hsinchu Science Park, Taiwan
 - ASPEED Technology (U.S.A) Inc.: San Jose, USA
 - ASPEED Technology (India) PLT.: Bangalore, India



Fabless-Lite Company

ASPEED



**Server Management
SoC Solutions**

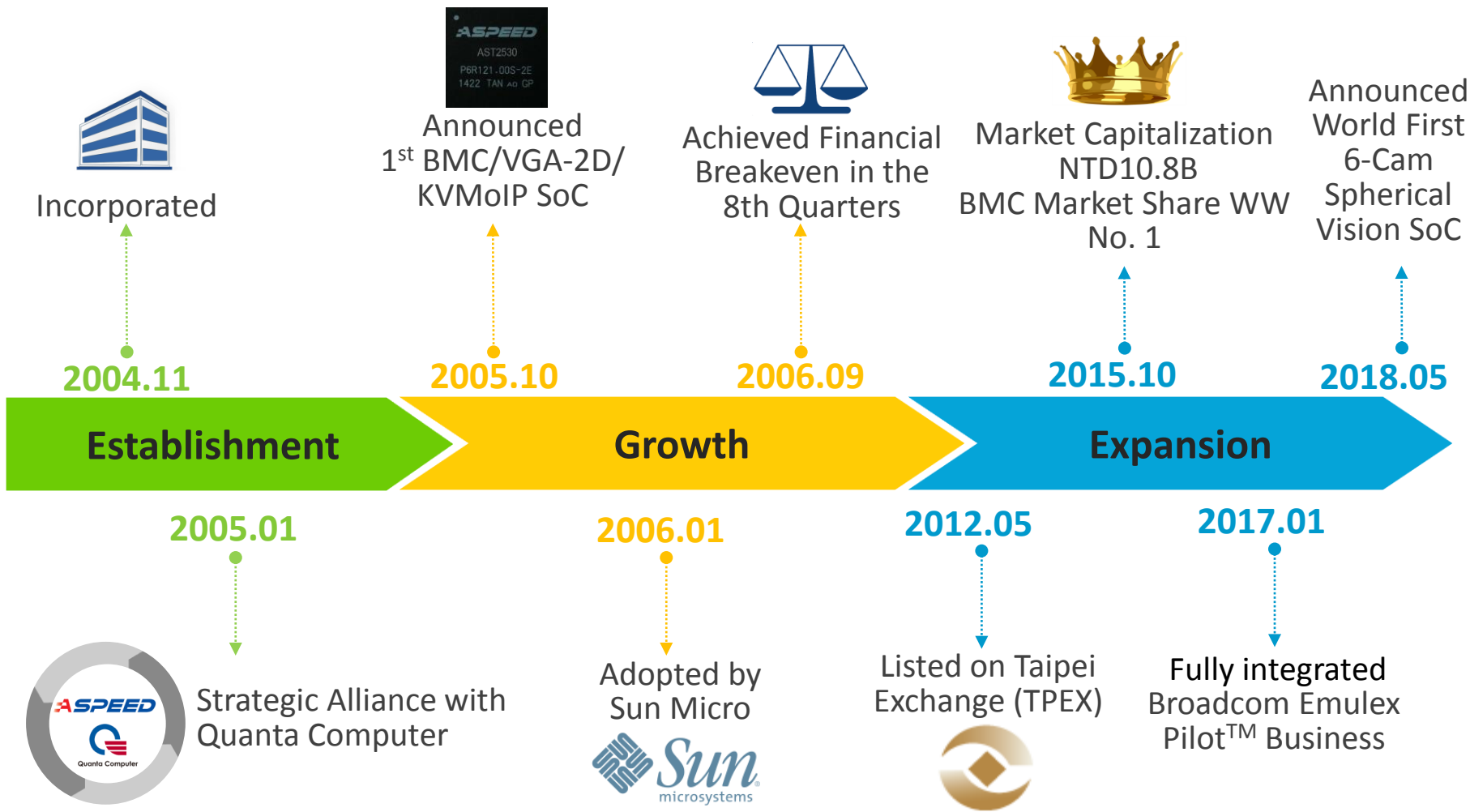


**PC/AV Extension
SoC Solutions**



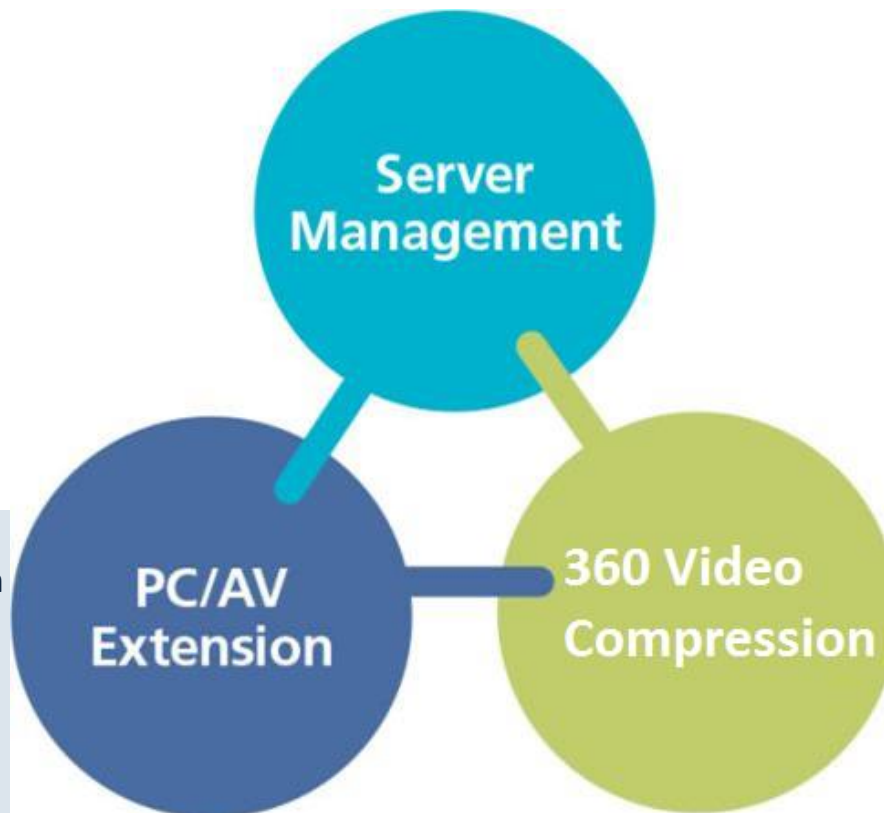
**360 Video Compression
SoC Solutions**

Major Milestones



AST1010
AST2200 / AST2150
AST2300 / AST1300 / AST1050
AST2400 / AST1400 / AST1250
AST2500 / AST2510 / AST2520 / AST2530
AST2600/Pilot5

28nm LP Process
Dual Core 1GHz CPU
DDR4 SDRAM
Robust Security Architect
and Features
ES: Q1/2019
PS: Q1/2020



AST1500 / AST1510
AST1520 / AST1525
AST1620/AST1625

130nm LP Process
Support 4Kx2K Resolution
<80 us latency
1GHz CPU
DDR4 SDRAM
ES: 2017/Q2
PS: 2017/Q3

AST1220

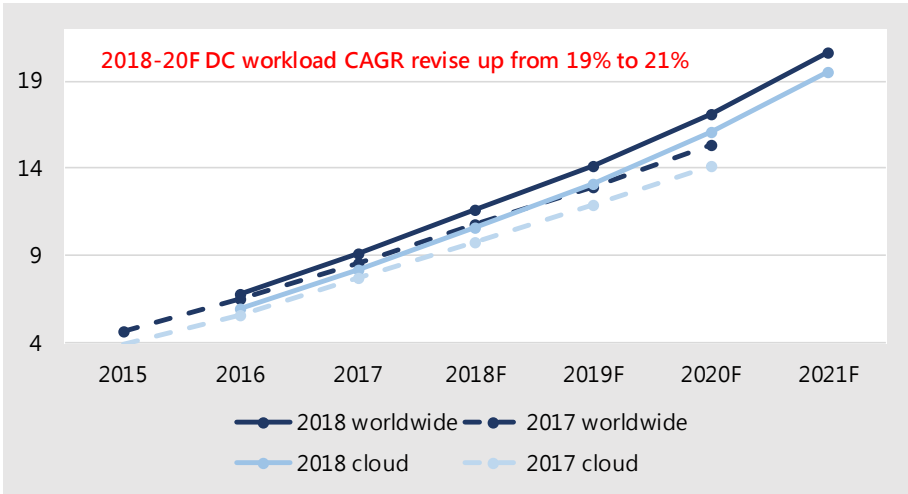
40nm LP Process
1GHz CPU
PLDDR3 SDRAM
6-Cam Real Time Stitching
H.264/265 4k2k Endcoding
PCIe Gen-II
ES: Aug. 2018
PS: Nov. 2018

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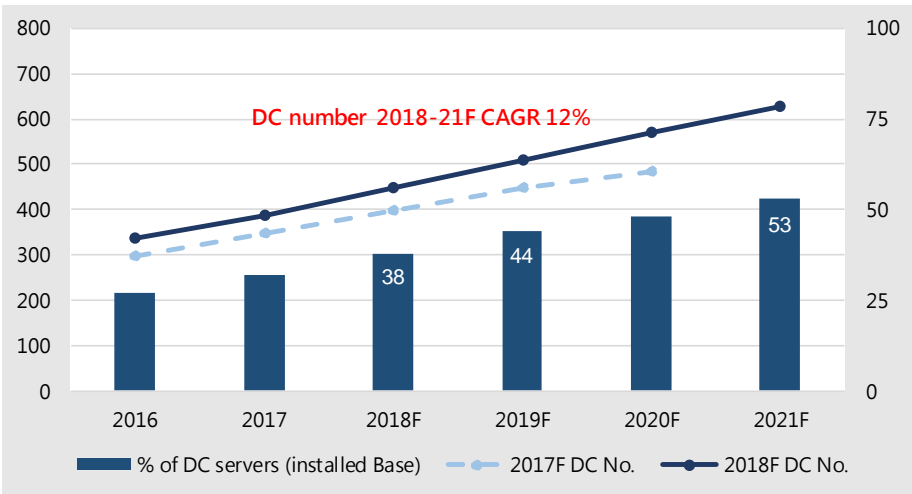


Remote Server Management

Market Highlights – Market Status



Source: Cisco White Paper (2018/2)



Source: Cisco White Paper (2018/2)

Market Highlights – Server shipment

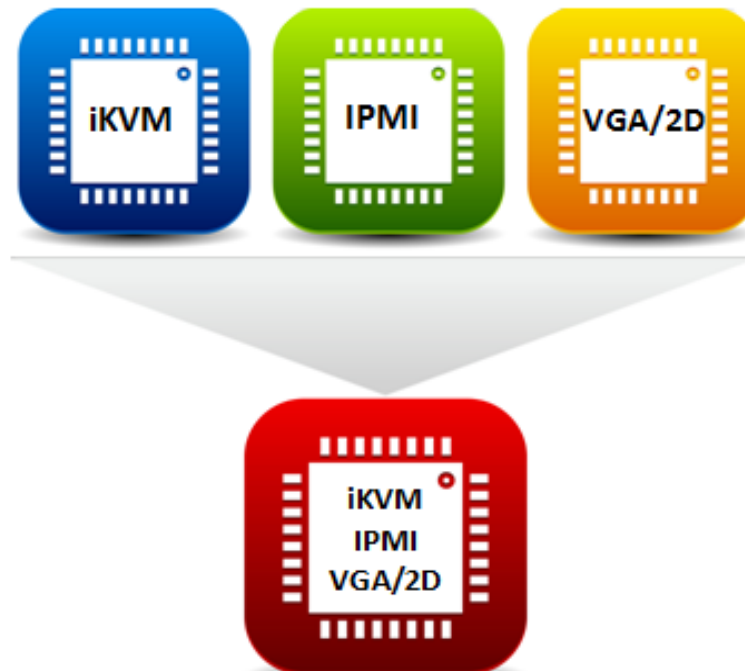


Top 5 Companies, Worldwide Server Unit Shipments, Market Share, and Growth, Second Quarter of 2018 (*Shipments are in thousands*)

Company	2Q18 Unit Shipments	2Q18 Market Share	2Q17 Unit Shipments	2Q17 Market Share	2Q18/2Q17 Unit Growth
1. Dell Inc.	574.6	19.5%	492.7	20.2%	16.6%
2. HPE/New H3C Group**	443.7	15.1%	506.8	20.7%	-12.4%
3. Lenovo*	224.1	7.6%	145.7	6.0%	53.9%
3. Inspur*	203.2	6.9%	119.7	4.9%	69.8%
5. Huawei*	187.4	6.4%	133.9	5.5%	39.9%
5. Super Micro*	175.1	5.9%	136.0	5.6%	28.8%
ODM Direct	732.6	24.9%	527.1	21.6%	39.0%
Others	403.0	13.7%	380.6	15.6%	5.9%
Total	2,943.8	100%	2,442.4	100%	20.5%

Source: IDC Worldwide Quarterly Server Tracker, September 5, 2018

- Highly integration: 2D VGA / BMC / KVMoIP
- Dual Brand Strategy: Integrate ASPEED + Pilot
- Technology ownership
- Dual-IPMI: Maintain special spec , keep OEM/Branding variation





ASPEED



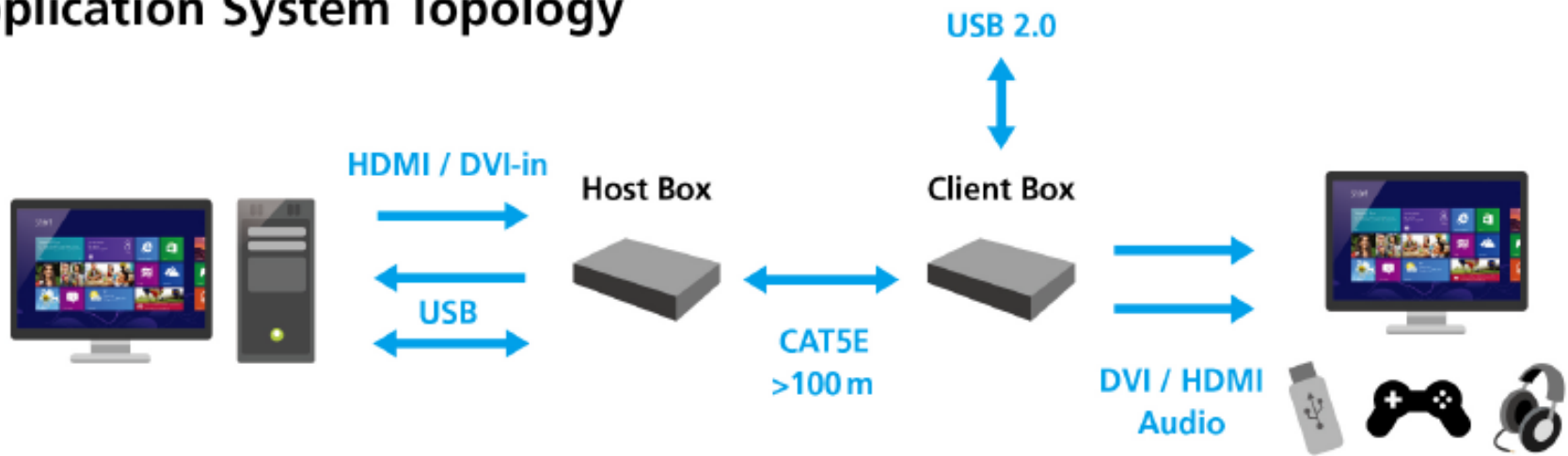
iCafe Extender

Features & Benefits

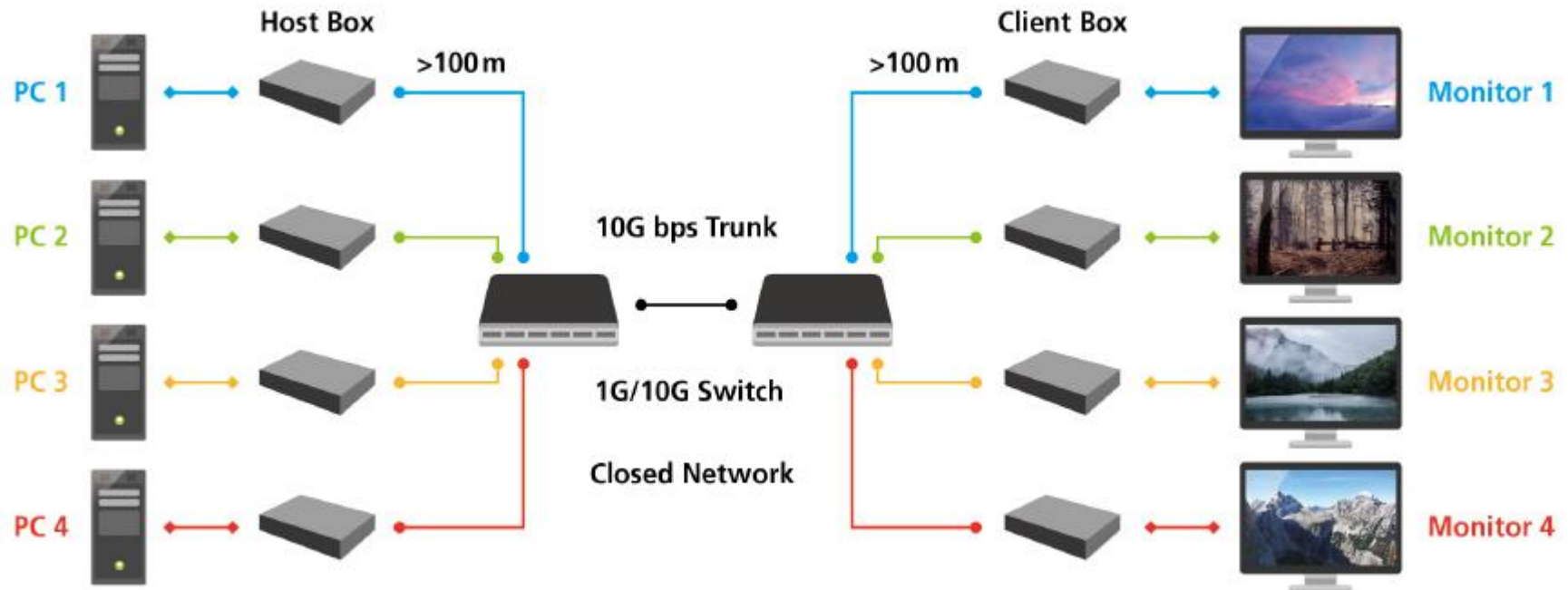
Features

- Support UHD (4K2K) resolution extension
- Visually lossless compression algorithm
- Low latency $\leq 80 \mu s$
- Auto assign IP address
- No DRAM required

Application System Topology



Features & Benefits





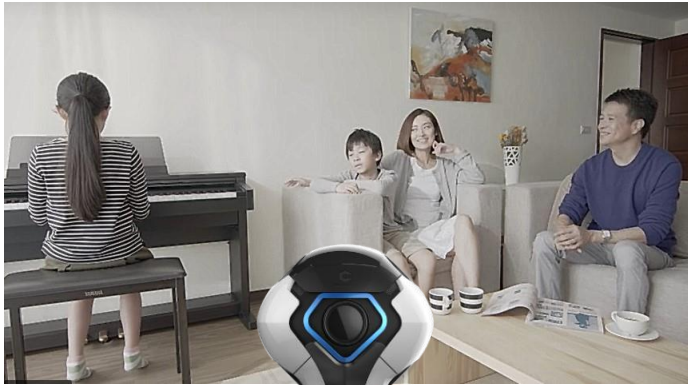
360 Video Compression

Features & Benefits

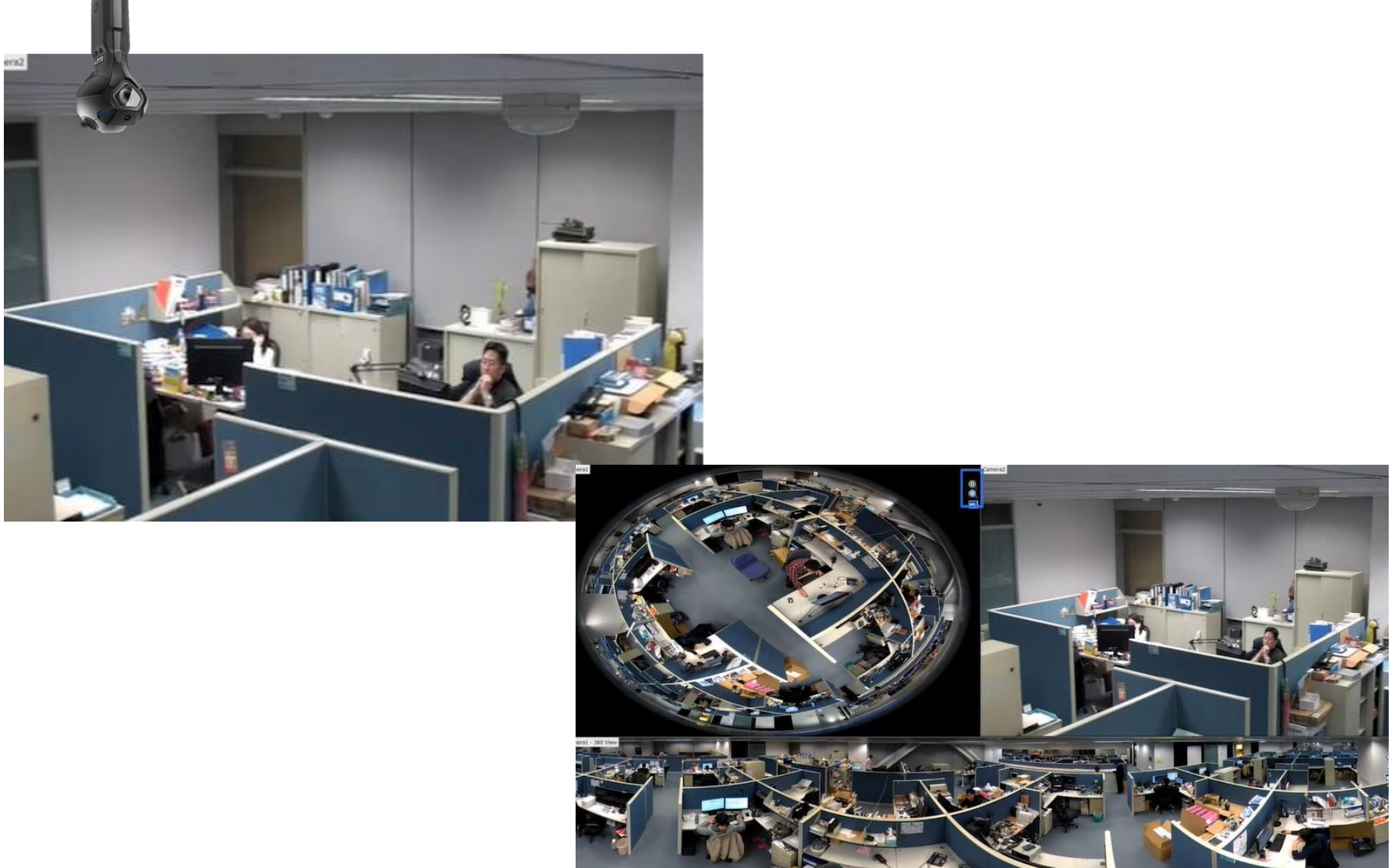
- 12x12mm Package
- 360 degree 4K@30fps SoC
- Up to 6 camera Input
- High Quality Image processor
- Real-time stitching
- WDR Function
- H.264/H.265 compression ★
- 3D Anti-Shaking
- 32bit LPDDR3
- USB2.0 / Ethernet
- Wi-Fi Connectivity
- SD 3.0



Design for entertainment and travelers

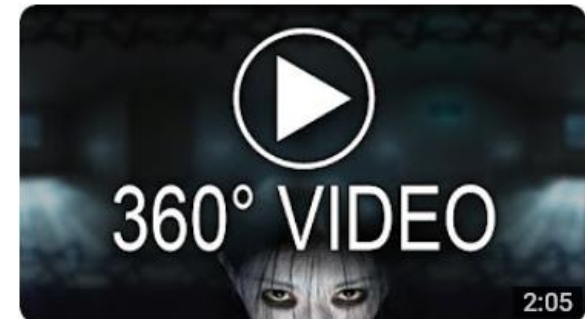


Product for 360 degree Security



Exclusively Designed for 360 degree Live Streaming

ASPEED



- 360 degree 4K2K@30fps Video
- 360 degree 18MP JPEG
- Six big pixel sensors
- Wide Angle lens
- Real-time stitching
- WDR Function
- H.264 MP4/AAC
- 3D Anti-Shaking
- WiFi 802.11ac/a/b/g/n
- OLED Menu control
- Battery Power
- Live Streaming by camera



2017Q3 vs 2018Q3 Sales & Profits

Unit : NTD 1,000	2017Q3		2018Q3		YoY
	Amount	%	Amount	%	%
Sales Revenue	500,246	100.00	583,335	100.00	16.61
Gross Profit	292,373	58.45	353,726	60.64	20.98
Net Operating Profit	188,262	37.63	234,416	40.19	24.52
Pre-Tax Profit	187,757	37.53	248,277	42.56	32.23
Net Income	156,181	31.22	194,289	33.31	24.40
EPS	4.61		5.72		

2018Q1-Q3 Sales & Profits



Unit : NTD 1,000	2017Q1-Q3		2018Q1-Q3		YoY
	Amount	%	Amount	%	%
Sales Revenue	1,398,831	100.00	1,669,469	100.00	19.35
Gross Profit	812,193	58.06	990,063	59.30	21.90
Net Operating Profit	475,114	33.97	618,030	37.02	30.08
Pre-Tax Profit	456,902	32.66	661,834	39.64	44.85
Net Income	386,020	27.60	515,903	30.90	33.65
EPS	11.41		15.19		

Key Indices



	2017Q3	2018Q3	YoY
Unit : NTD 1,000	Amount	Amount	%
Cash	891,932	724,917	(18.73)
Account Receivable	384,441	448,871	16.76
Inventory	89,566	173,084	93.25
Debt	217,000	-	(100.00)
Shipment Qty (K/pcs)	5,191	6,372	22.75

Dividend Policy



	2009	2010	2011	2012	2013	2014	2015	2016	2017
Cash dividend	2.29	3.00	4.00	5.00	5.50	7.00	8.00	12.00	15.00
Stock dividend	2.00	1.42	0.00	0.00	0.00	2.00	0.00	0.00	0.00
Dividend from capital reserves	0.30	0.60	0.22	0.20	1.00	0.00	0.00	0.00	0.00
Total Dividend	4.59	5.02	4.22	5.20	6.50	9.00	8.00	12.00	15.00
EPS	5.64	5.66	4.77	6.50	7.40	10.72	10.79	14.07	15.70

Earning distributions:

- With respect to the earnings available for distribution plus the previously cumulative undistributed retained earnings, the Board of Directors may present a proposal to distribute to the Shareholders by way of dividends at the annual general meeting for approval. Having considered the operational, financial and tax factors, including the Company being in the growing stage during the business life cycle and the future expansion projects, any remaining profits may be distributed in the form of cash dividends and/or shares, and the cash dividends shall be no less than 10% of such remaining profits to be distributed.



Thank you