



(3583)

2017/12/13

Safe Harbor Statement

- This Presentation contains certain forward-looking statements that are based on current expectations and are subject to known and unknown risks and uncertainties that could cause actual results to differ materially from those expressed or implied by such statements.
- Except as required by law, we undertake no obligation to update any forward –looking statements, whether as a result of new information, future events or otherwise.

Sciencetech Corp (3583: TT)



Company Establishment	1979/10/17
IPO	2013/3/12
Capital	NT\$ 811 Million
Chairman	H.L. Hsieh
President	M.T. Hus
Products	Equipment Manufacturing 、 Wafer Reclaim 、 Trading(Agent/Distributor)

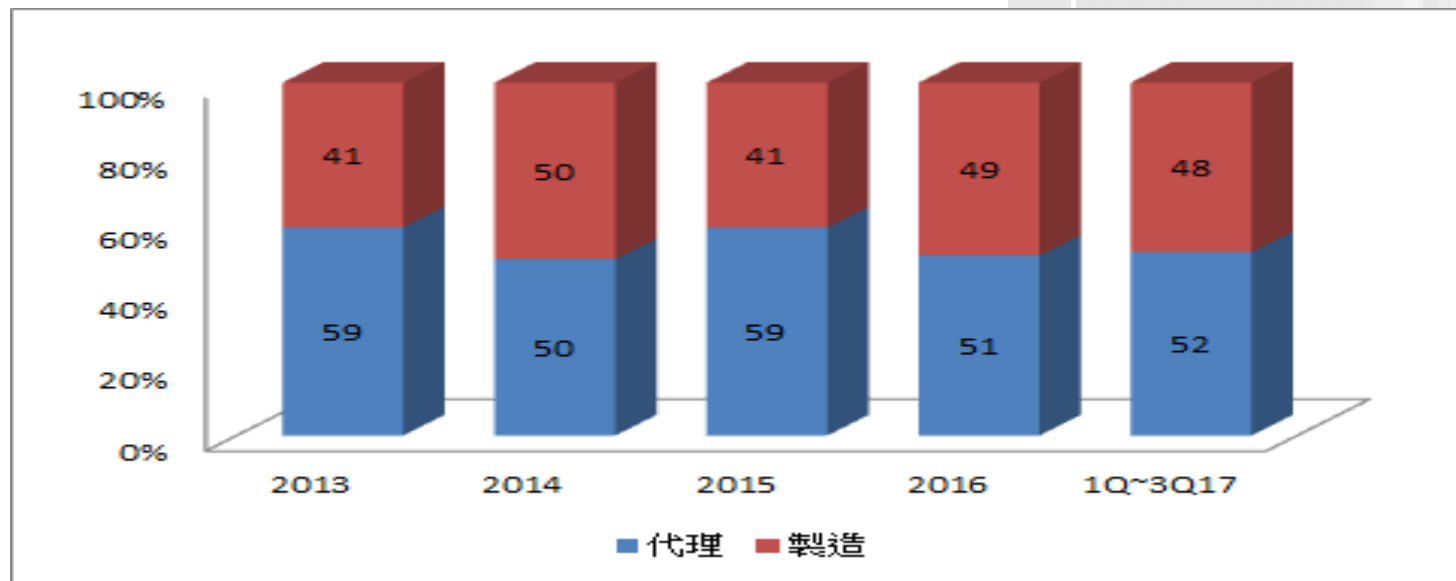
Business
Overviews

Products

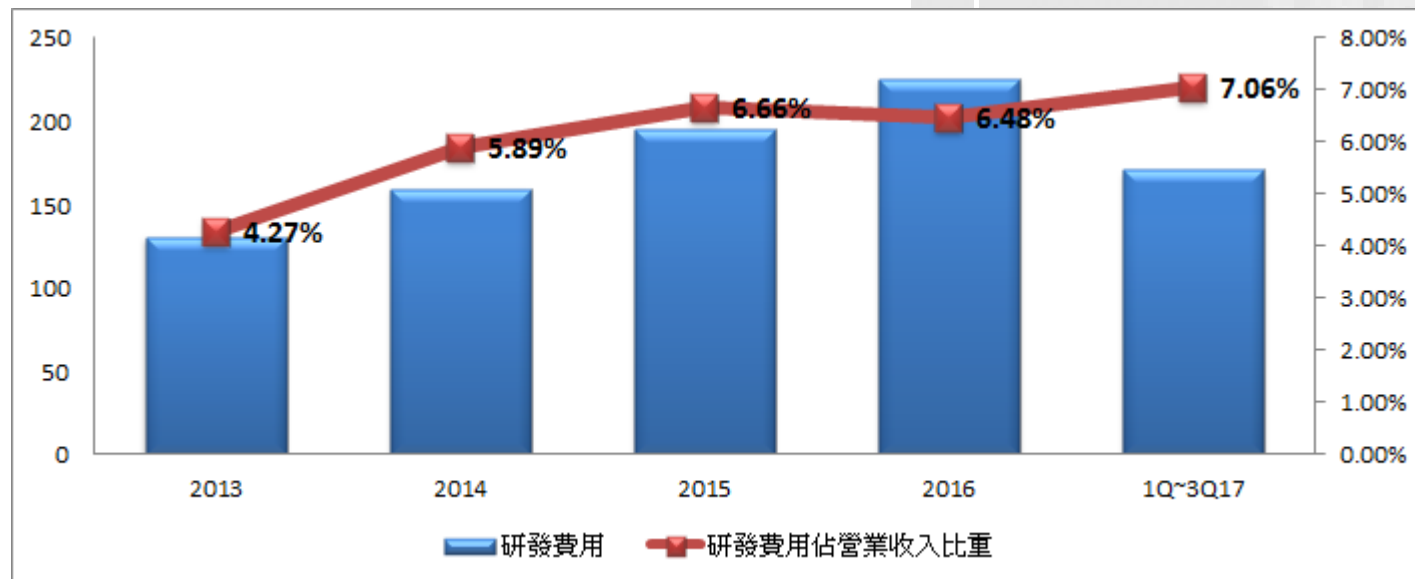
Future
Prospect

Units : NT \$ M	2013	2014	2015	2016	3Q17	1Q~3Q17
Revenues	3,068	2,717	2,942	3,495	885	2,428
Gross Profit	983	970	903	1,178	335	864
Operating Expenses	629	673	779	835	215	611
Operating Income	354	297	124	343	120	253
Other Income and Expenses	(26)	20	(6)	21	(15)	(26)
Income Before Tax	328	317	119	363	105	227
Net Income	249	246	86	292	86	177
EPS	3.11	3.04	1.06	3.60	1.06	2.18
Gross Margin	32.04%	35.71%	30.69%	33.71%	37.91%	35.60
Operating Margin	11.53%	10.93%	4.23%	9.80%	13.62%	10.44%
Income Before Tax margin	10.69%	11.68%	4.03%	10.40%	11.86%	9.33%

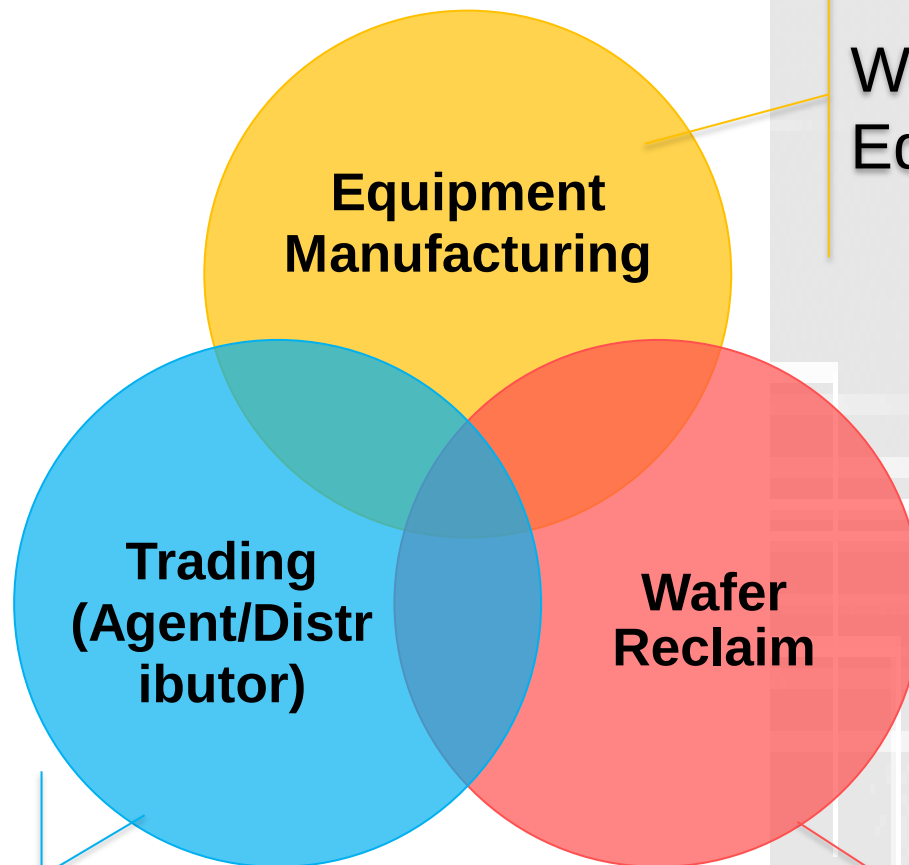
Units : %	2013	2014	2015	2016	1Q~3Q17	Gross Margin
Trading	59	50	59	51	52	Below Average
Manufacturing	41	50	41	49	48	Above Average



Units : NT \$ M	2013	2014	2015	2016	1Q~3Q17
R&D Expenses	131	160	196	226	171
Expenses as % of Revenue	4.27%	5.89%	6.66%	6.48%	7.06%



Products



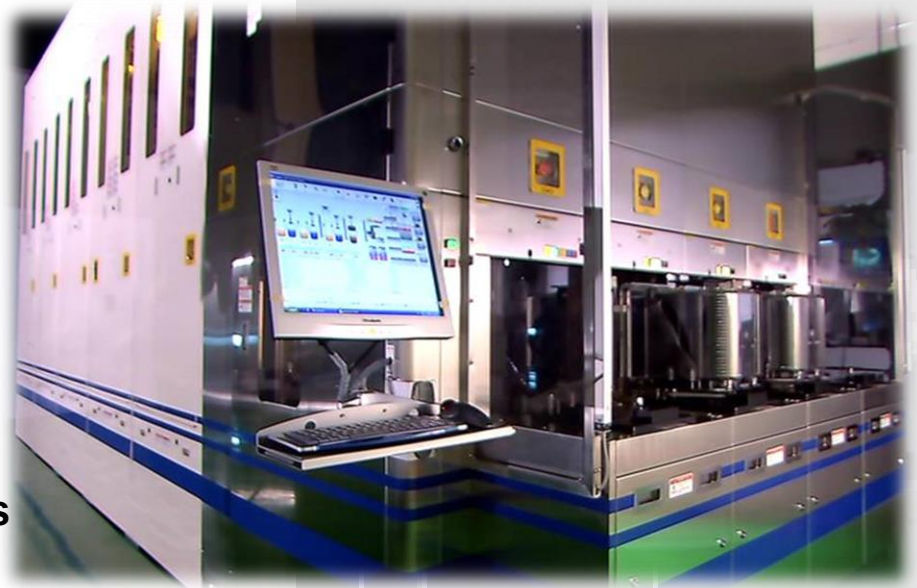
Wet Process
Equipment

Semiconductor and
Optoelectronics
Process Equipment

12" Wafer
Reclaim

Wet process equipment

- **Single wafer/ Batch type**
 - ◆ **8"/12' Advanced packaging**
(Fan-out 、 Solder Bump 、
Copper Pillow 、 Bumping 、
Gold Bump 、 RDL 、 TSV
...ect)
 - ◆ **6"/ 8"/12" Front-end special
process** (IoT Sensor 、 Power IC
FP sensor 、 RF 、 CMOS 、 Touch
Controller 、 MEMS)
 - ◆ **HB LED fully-automatic process**
 - ◆ **MEMS**
 - ◆ **III-V**



- 12" Wafer Reclaim
- Capacity: 120K / month
- Separated Cu & Non Cu Line

Advanced clean technology
20nm/ 16nm Particle
Low trace metal (<5E9)



Complete particle inspection
(SP1-DLS & SP2)

Cleaning

Etching

***Full Process
Optimization***

Polishing

Grinding

Complete polishing process
Single side polish
Double, side polish
Final Haze polish

Super flatness
(GBIR<0.5 μ m)



Products

Trading (Agent/Distributor)



ECO-SNOW SYSTEMS

PONGSAN MICROTEC

Canon



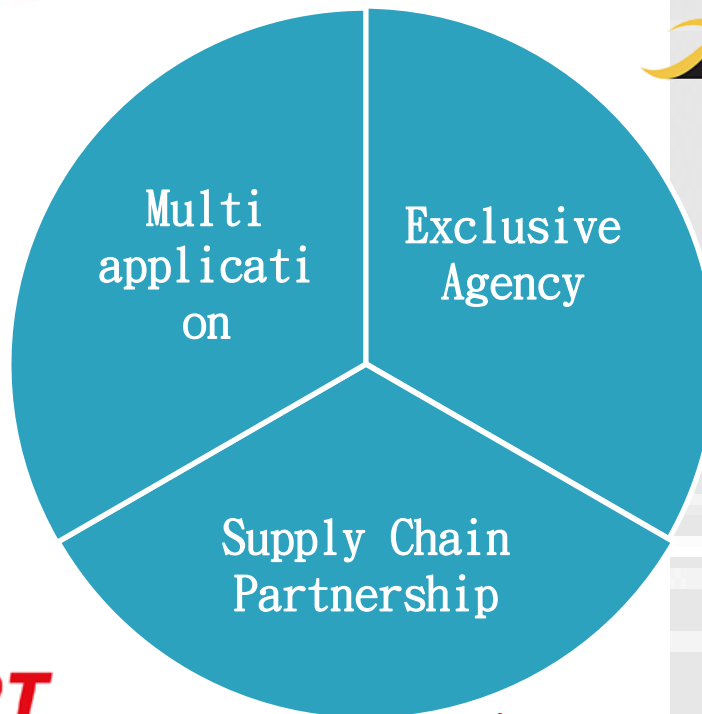
FerroTec

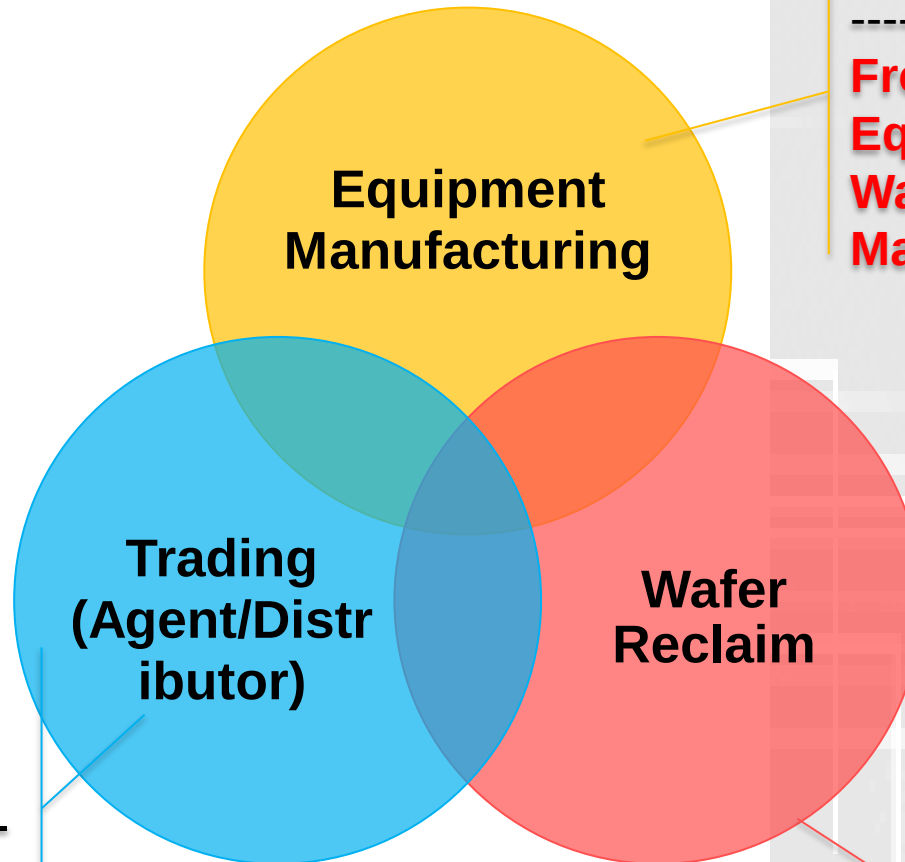
ΔE ADVANCED ENERGY

Hirata

Plasma-Therm

USHIO





Wet Process Equipment

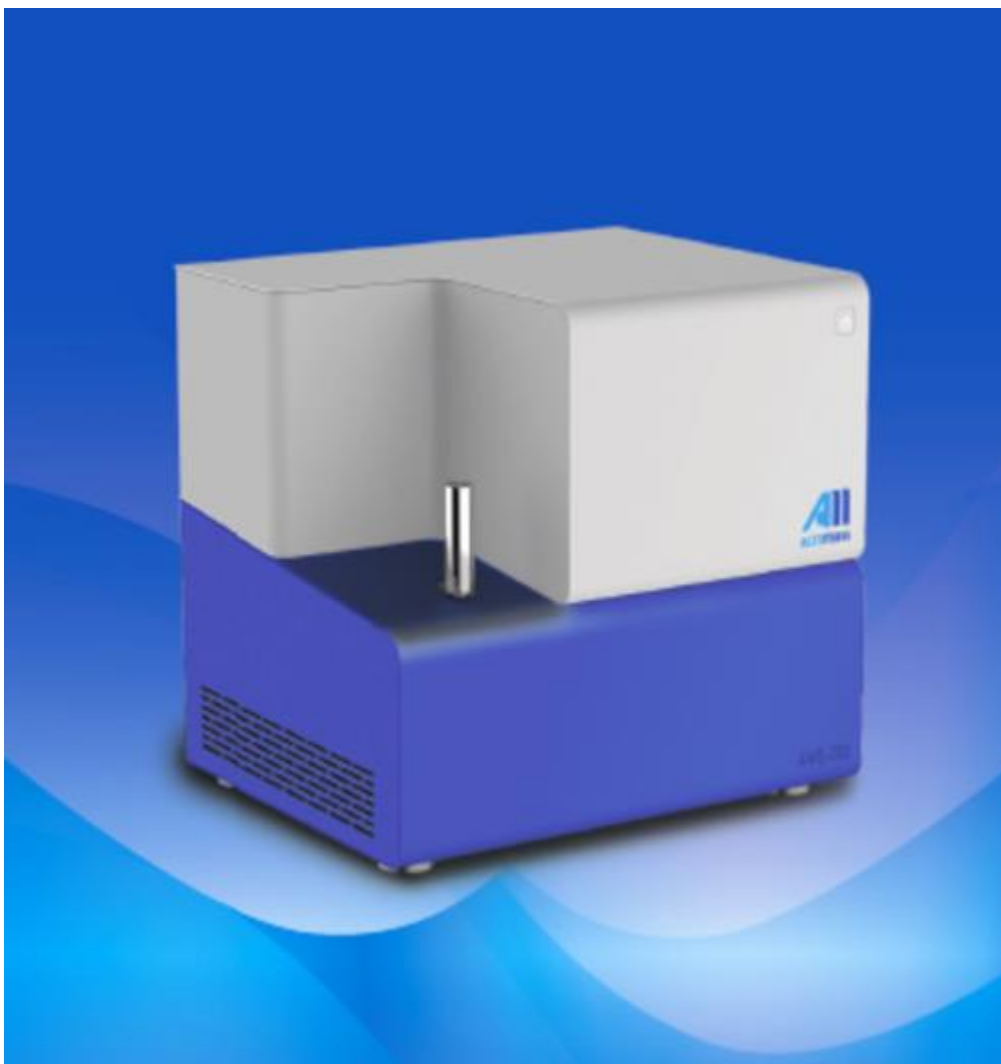
Front-end Wet Process Equipment
Wafer Support System
Mass Spectrometer

Semiconductor and Optoelectronics Process Equipment

AMOLED
Advanced Process
Miniaturization

12" Wafer Reclaim

SiC Wafer Reclaim

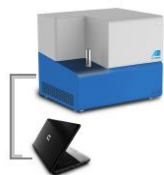


AI acromass

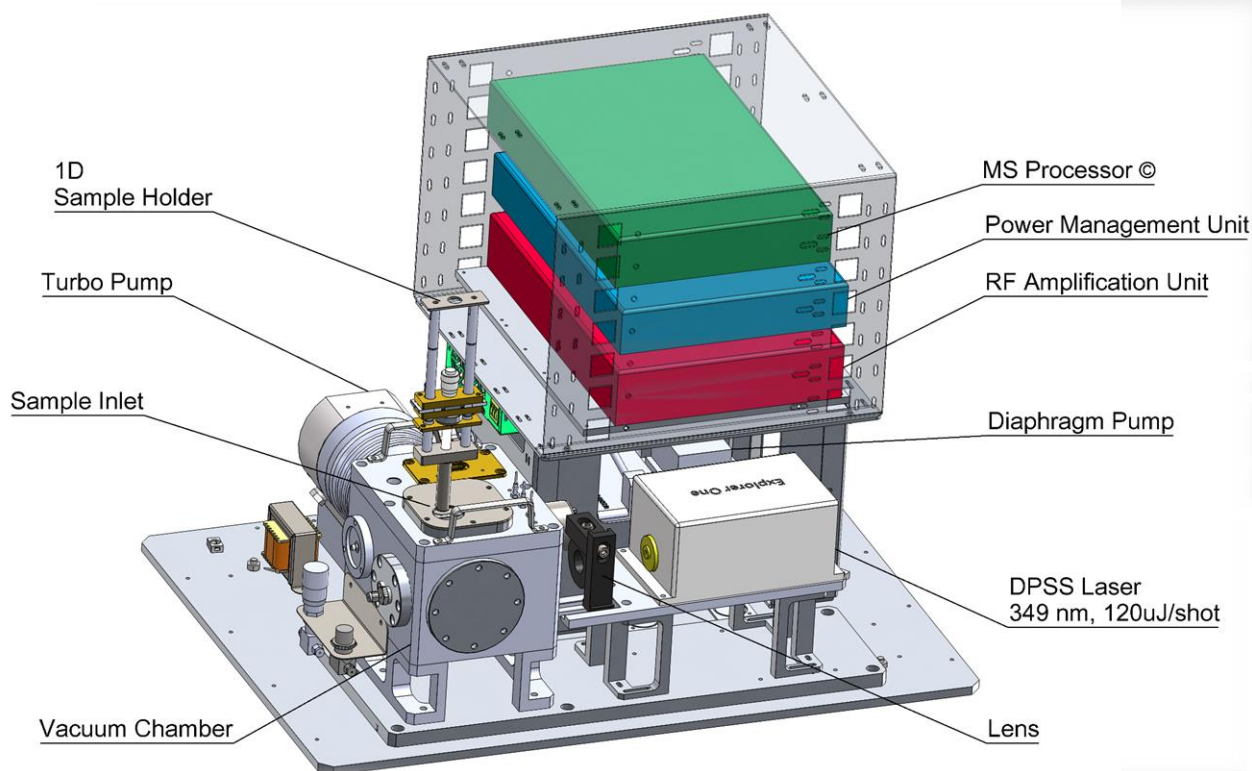
**AMS-200-1
inTrap MALDI
Mass Spectrometer**

**Range: 500-500kDa
Resolution: 10Da@100kDa
Precision: 100Da@100kDa
(for intact protein analysis)**

AMS-200-1



Without any external pump & gas cylinder,
all modules are consolidated in a desktop !



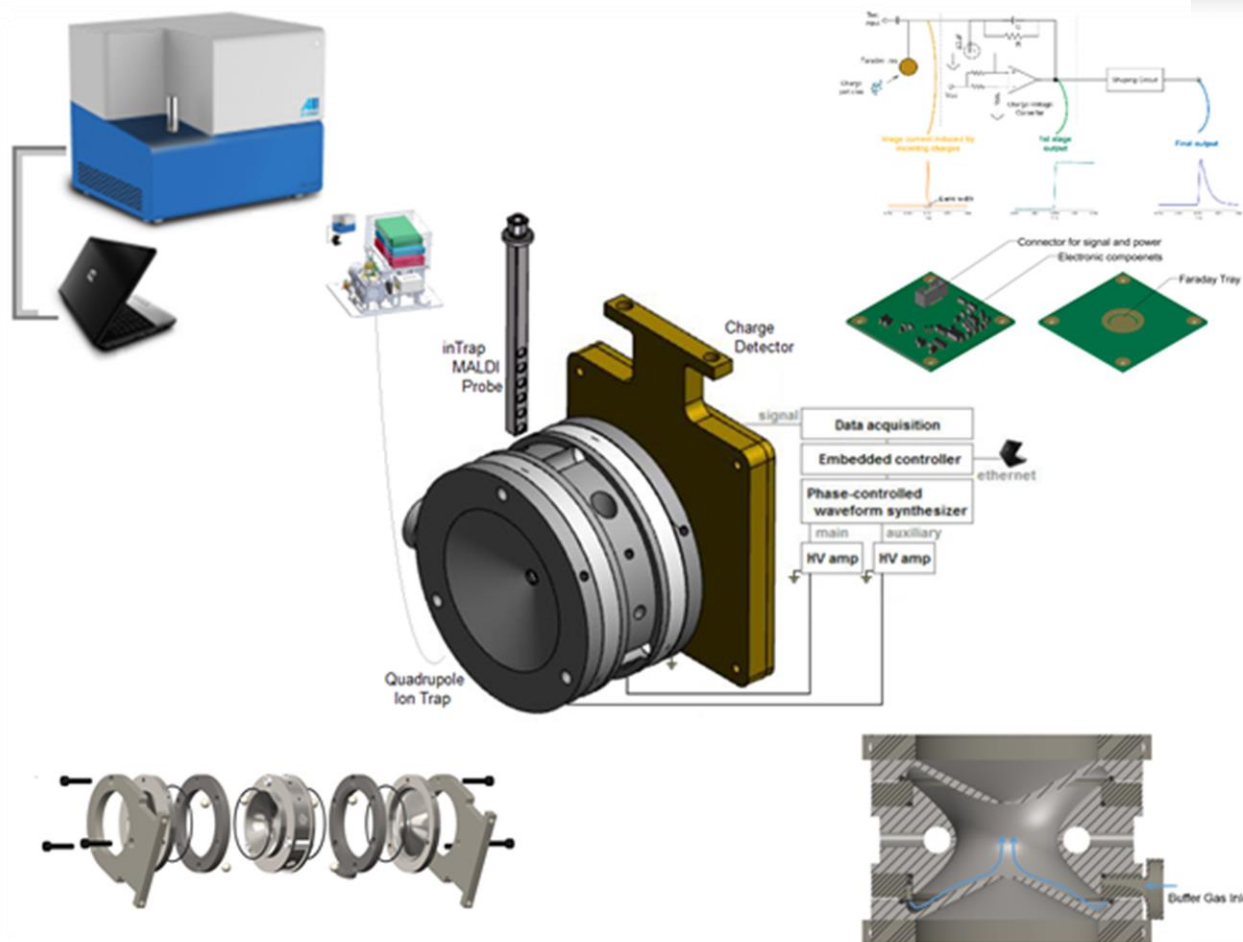
Size:

**60 cm W
x 50 cm D
x 50 cm H**

Weight:

< 40 Kg

High-precision miniature assembly
of all-hOMEMADE key components ---



multiple sample inlet !

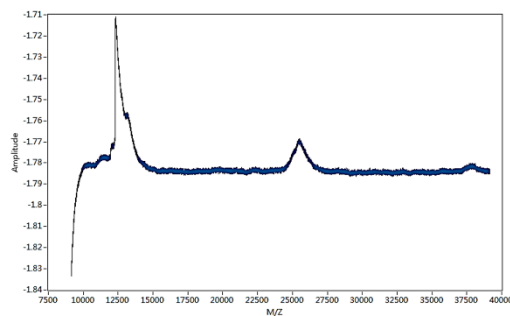
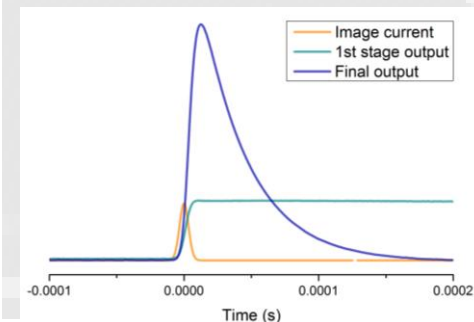
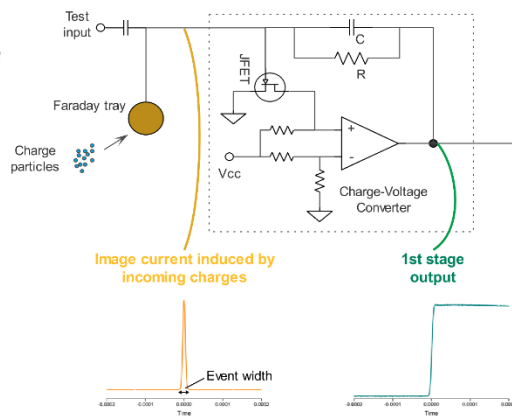
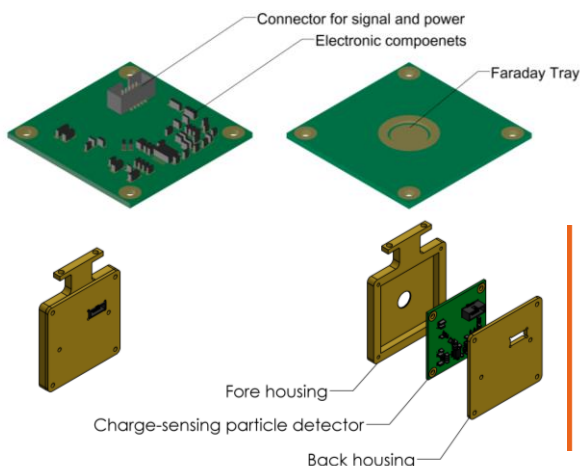
**high-precision
mass analyser !**

**3D-printed
Knudsen-flow
gas nozzle !**

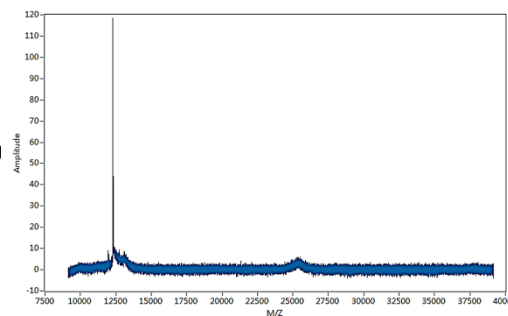
&

**highly sensitive
charge detector !!**

“Very-Simple” *proprietary* charge detector ...
no HV bias, no high vacuum required !
(resolution 10Da@100kDa)



Reconstruction & filtering



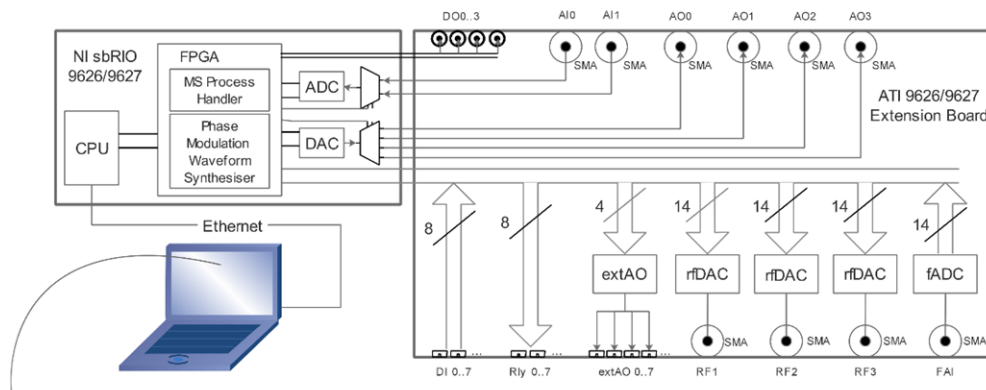
Raw 1st stage of CSPD™ signal

- Good response to ion quantity.
- It consists of ion information and circuit property as the falling of peak.

Reconstructed & filtered signal

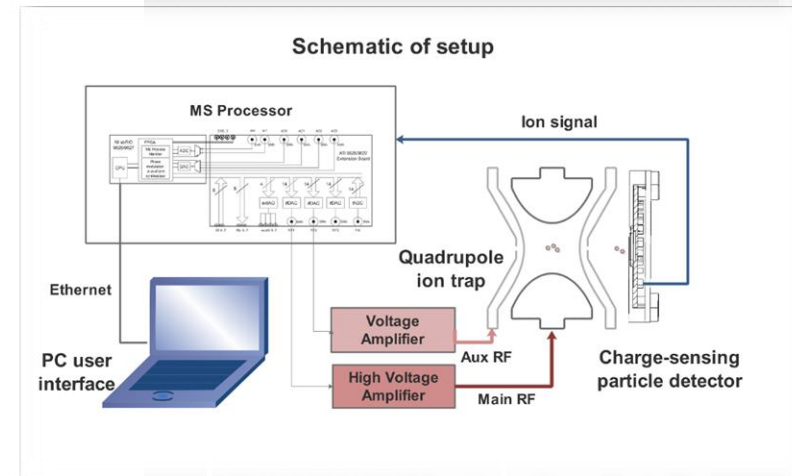
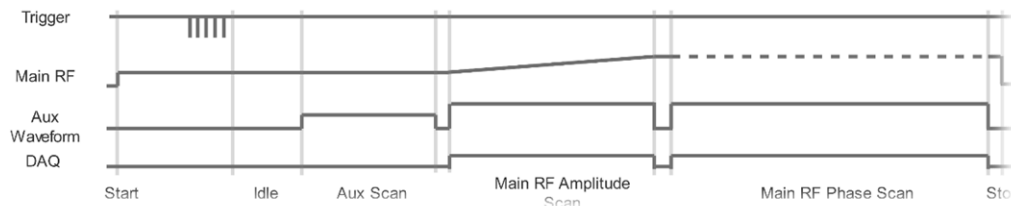
- The circuit property has removed. The signal responding to the detecting ions.
- Bad linearity to ion number

Versatile waveform via ion-trap dynamics for *proprietary* mass spectrometry ---

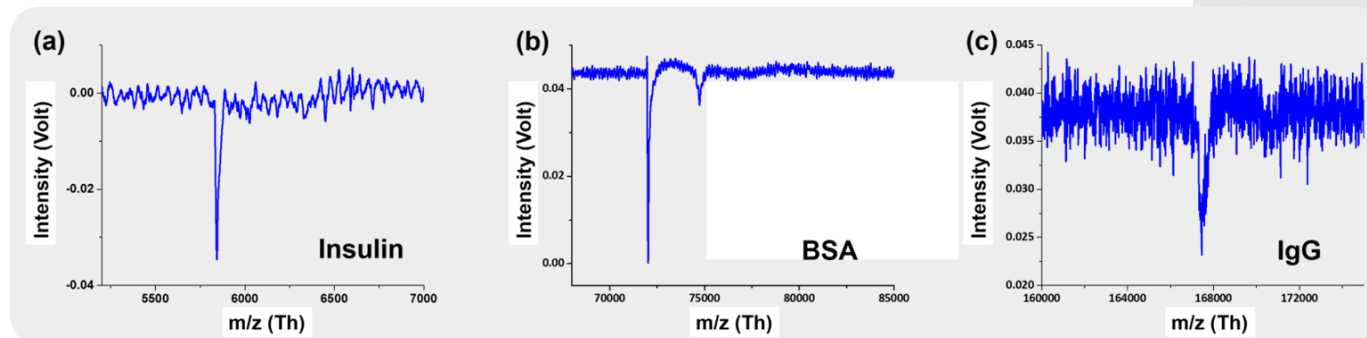


Event Script Editor

```
Start:: parameters...;
LaserTrigger:: parameters...;
Idle:: parameters...;
AuxScan:: parameters...;
MainAmpScan:: parameters...;
MainPhaseScan:: parameters...;
Stop:: ;
```



frequency jitter $\sim 1e-4$!!

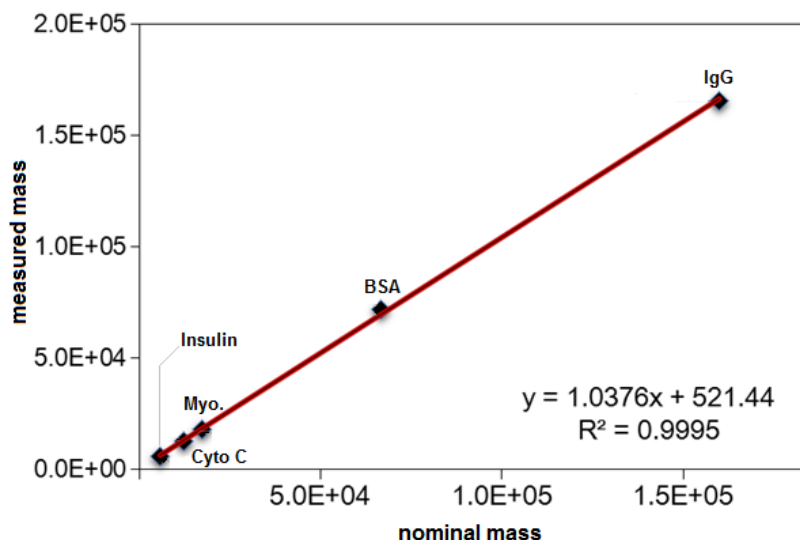


	Nominal Mass	Uncalibrated Mass
Insulin	5733	5856
Cyto C	12327	12674
Myoglobin	17200	17996
BSA	66463	72077
IgG	160000	165580

Uncalibrated MALDI ion trap mass spectra of (a) insulin (5808 Da), (b) bovine serum albumin (BSA, 66.5k Da), and (c) immunoglobulin G (IgG from bovine serum, ~160k Da, Sigma-Aldrich). The mass spectra use unstable ejection with the main RF phase scan.

Robust extension
of mass range over 3
orders of magnitude ...

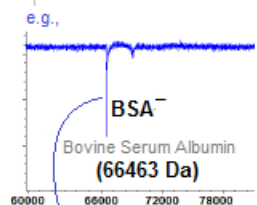
500-500kDa !



High-resolution *intact protein analysis*

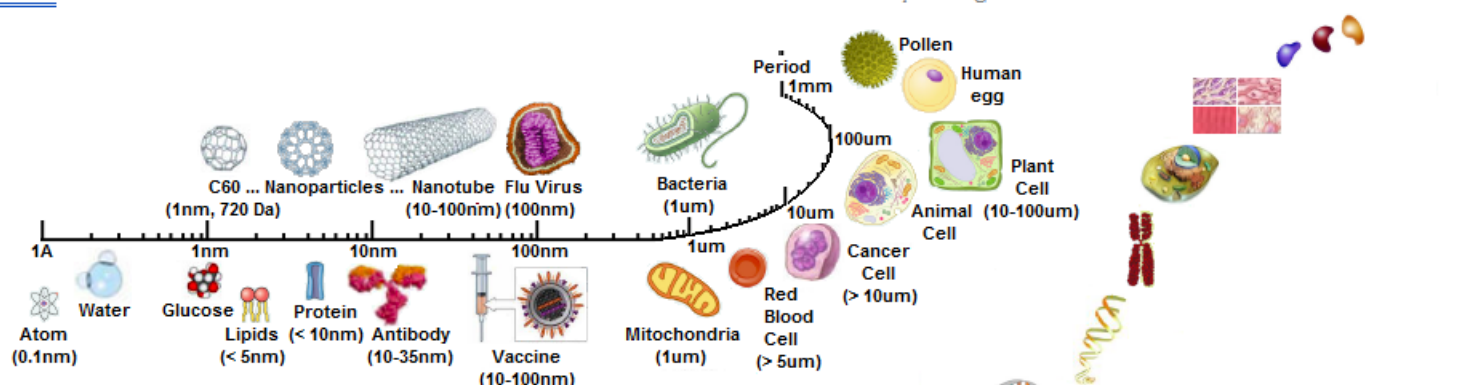
500-500k Da !!

mass range



precision ~ **100 Da**

(det. resolution ~ 10 Da)



Much-extended mass range for more applications,
directly linking "Omics" research to **entire bio-science!**

Bio-informatics /
... based on MSⁿ

indirect ...
statistically correlated ...

protein complex

Slicing, Extraction, ...

... extended via LIAD

(~ 4-30 nm, > 3kDa)

protein mix

X-linking
& Reduction

Targeting,
Separation, ...

intact protein

high-resolution, sensitive detection
of *in vivo*, whole bio-molecules !!

~ 500 kDa

AcroMass MS

... via ESI/MALDI/...

extended via
ion optics ...

top-down

bottom-up

(triple quad, ToF,
FTMS, orbitrap, ...)

OnMarket MS

CID/ECD/...

MS/MS/...

fragment ladder

(~ 200-4kDa)

peptide mix

Digestion

(~ 20-2kDa)

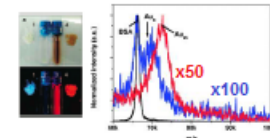
peptide fragments

(amino acids, metabolites, ...)

~ 500 Da

!!

how about BSA + Au₅ & BSA + Au₂₅

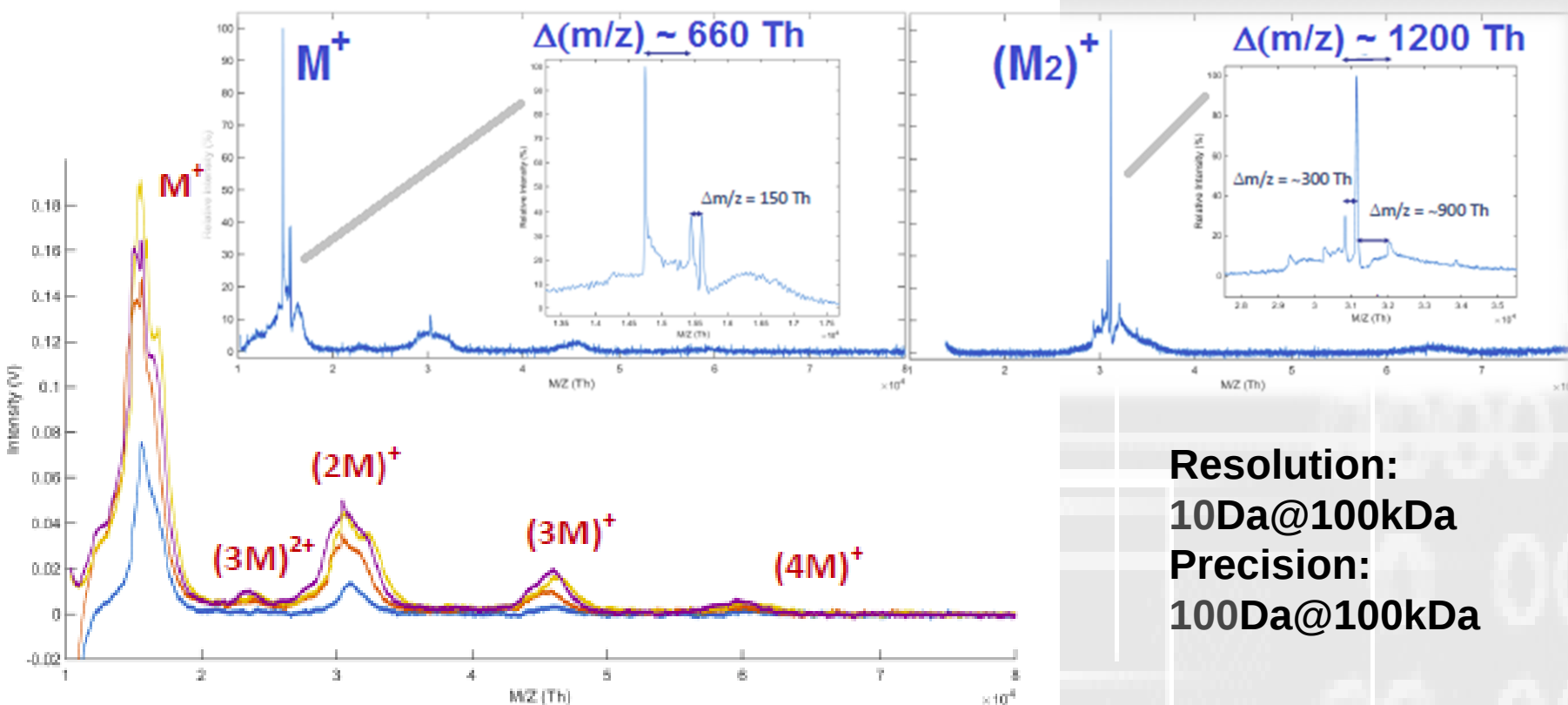


VS

Applied BioSystems 4800
Proteomics Analyzer
MALDI ToF/ToF ~ 5-10 kDa

High-resolution *intact protein analysis*

Lysozyme-stab. gold nanoclusters (Lys-AuNCs) as functional nanomaterials



Resolution:
10Da@100kDa
Precision:
100Da@100kDa

Mass spectrum (uncalibrated) of lysozyme + Au cluster — fast screening of charge state (1st stage CSPD signal)

Q & A



Thank You!