

SinmatrikX Co.,Ltd
SMTX
Company outline

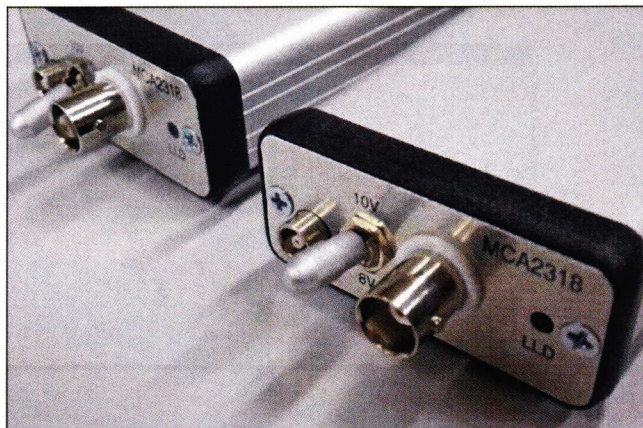


English

★MCA5105 New Version MCA2318

MCA2318 the analogue hybrid

<example>



with iFKR-ZIP and measure NMIJ CRM (brown rice)

According to combination of using latest analog hybrid AD converter and one-chip micro computer which built in DSP, USB power supply is enough to activate this MCA, Compatible to many types of detectors such as Ge(Li), and Ultra high speed detector, etc

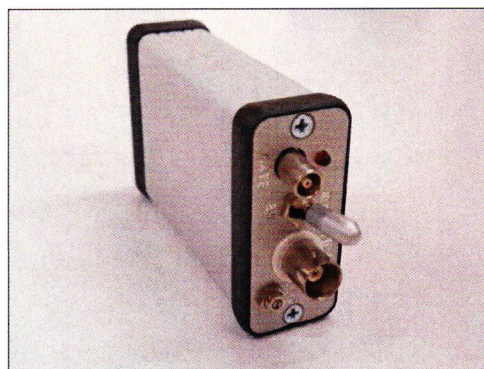
MCA2318

Low-type : ¥198,000 (with tax ¥213,840)

High-type : ¥460,000 (with tax ¥496,800)

MCA5105

HDU-type : ¥500,000 (with tax ¥540,000)



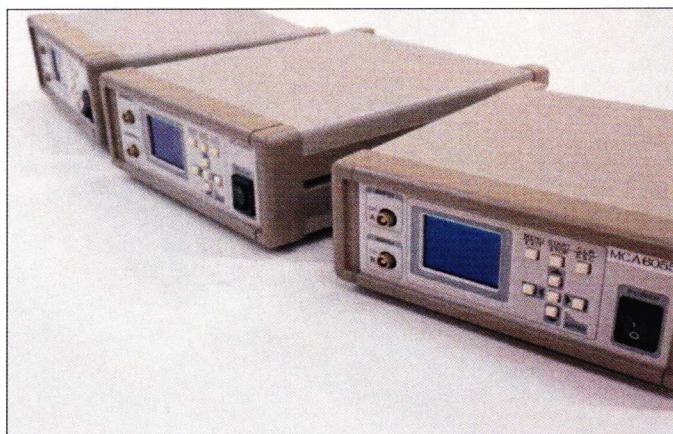
MCA5105-HDU, HDX

SPECIFICATION	
MCA memory size	4096 (32bits/ch)
AD converting speed	1.2usec 14bits
Integral nonlinearity	+/- 0.01%
Differential nonlinearity	+/- 0.64%
Signal of input(ADC	0~5V, 0~8V selectable LEMO
LLD	5turn VR
Preset time	32bits 100ms unit
Interface	USB2.0 Full Speed
Shape(mm)	50(W) × 75(D) × 20(H)
Power	100mA from USB
Weight	90g
Display	only LED for showing ON/OFF
Input impedance	1K ohm
Input pulse width	100ns peaking time
Maximum CPS	2318Low: 350Kcps , 5105: 500Kcps , 2318High: 800Kcps
Double buffer memory	2kch × 2pingpong mode

MCA6055 · MCA5853 · MCA5752

SinmatrikXCo.,Ltd.

★Less noise, high resolution.



MCA6055: ¥1,500,000 (with tax ¥1,620,000)

Option: SDD cable driver, power supply low noise
detective cable, BNC cable for SCOUT

MCA5853-CFD: ¥1,500,000 (with tax ¥1,620,000)

MCA5752-BNC: ¥700,000 (with tax ¥756,000)

Option : KETEK' s or AMPTEK' s X-ray detector' s
power supply circuit, pre-amp, main-amp

MCA6055, MCA5853

Is Higher interchange version of MCA5752.

To correspond with latest SDD' s development, such as 0.25us or ns order' s shaping amp built in silicon drift detectors, this model is eager to resist noise, perform the less temperature drift, attain high resolution, reduce the peak shifts between low calculation to high calculation, and contain the high speed AD converter.

MCA5752

Is completely new type of MCA that labeled as ASP MCA against DSP MCA, This works as a Hard MCA at stand alone.

Operation is controlled easily by displayed menu on color liquid crystal.

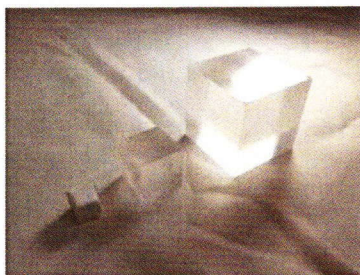
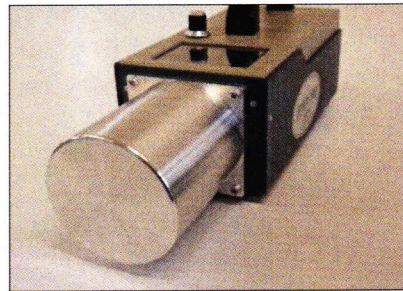
※ Those 3 are able to connect PC by USB.

specification	
MCA memory size	4096 (32bits/ch)
AD converting speed	6055 :330ns 14bits 5853 :330ns 14bits 5752 :500ns 14bits
Integral nonlinearity	+/- 0.01%
Differential nonlinearity	+/- 0.64%
Signal of input (ADC Direct)	0~5V , 0~8V selectable LEMO
Signal of input (Pre Amp Out)	5turn VR (except5853)
Preset time	32bits 100ms unit
Interface	USB2.0 Full Speed
Shape (mm)	50(W) × 75(D) × 20(H)
Power	USB 100mA
Weight	90g
Display	Organic EL display
Input impedance	1K ohm
Input pulse width	100ns peaking time
Maximum CPS	6055 :1.5Mcps , 5853 :1.5Mcps, 5752 :1Mcps (all random × 40%)
Double buffer memory	2kch × 2pingpong mode

★Survey meter ·····CsI(Tl)crystal is adopted



iFKR-254 1inch crystal use type

CsI(Tl) crystal
from left, 10 mm, 1inch, 2inch

iFKR-508 gigantic 2inch crystal use type!



iFKR-254:¥950,000
(with tax ¥1,026,000)

iFKR-508:¥2,000,000
(with tax ¥2,160,000)

**i FKR-254**

6%(Cs-137)
0.001~20 μ Sv/h
CPM μ Sv/h
50KeV~2MeV
Save to micro SD card
100ppm/°C
before shipping
0~40°C
based on precision instrument
IPX2/IPX3
-10 ~ 50°C
26000cpm μ Sv/h
25.4 x 25.4 x 25.4
4096ch (32bit/ch)
1.2 μ sec14bit
+/-0.01%、0.64%
32bit100ms a unit
USB2.0 Full Speed
130x100x240/1.53
N battery x3 + 12V Dbatteryx3
3.2inch TFT color liquid crystal
1K Ω
100ns peaking time
2Kch x 2pingpong mode
10sec

Specification

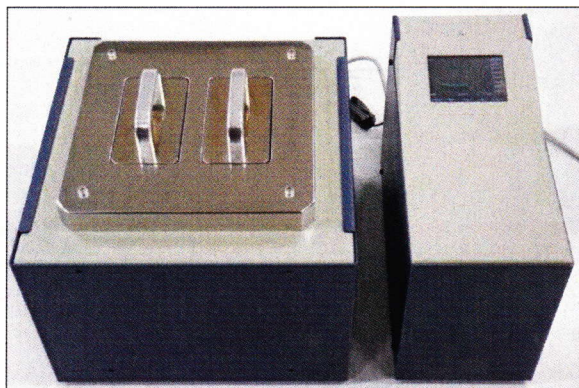
Resolution
Measuring range
Display range
Energy range
Spectrum memory
Stabilization
Calibration
Suitable temperature
Impact tolerance
Water proof
Safe keeping temperature
Sensitivity
Crystal size (mm)
MCA memory size
AD convert speed
Integral nonlinearity
Preset time
Inter face
Size and weight (mm/kg)
Power supply
Display
Input impedance
Maximum CPS
Double buffer memory
Time constant

i FKR-508

7%(Cs-137)
0.001~10 μ Sv/h
CPM μ Sv/h
50KeV~2MeV
Save to micro SD card
100ppm/°C
before shipping
0~40°C
based on precision instrument
IPX2/IPX3
-10 ~ 50°C
100000cpm μ Sv/h
50.8 x 50.8 x 50.8
4096ch (32bit/ch)
1.2 μ sec14bit
+/-0.01%、0.64%
32bit100ms a unit
USB2.0 Full Speed
130x100x300/2.22
N battery x3 + 12V Dbatteryx3
3.2inch TFT color liquid crystal
1K Ω
100ns peaking time
2Kch x 2pingpong mode
10sec

★For Food, Soil & Water !

CsI(Tl) has adopted



i FKR-ZIP-Adv.



Measured date of NMIJ CRM (brown rice)

Sister products of iFKR-ZIP-Adv

★ iFKR-ZIP-Pro.

is most fine edition of iFKR-ZIP-Adv.

At this version, Measurement way in is gathered up to only one on the top of product.

Double 2inch x 2inch x 1inch crystal will Sandwich the object and measure much more accurately.

★ mFKR

is low price edition of iFKR-ZIP-Adv.

Touch panel is removed and focused PC use.

Connection is USB interface.

Many contrives are adopted for cost reduction.

◇ on web, iFKR users community exists.

At community they mainly use Japanese but quite many users are able to respond with English.


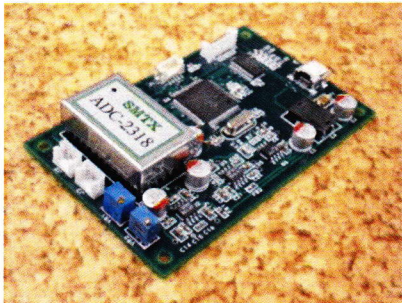
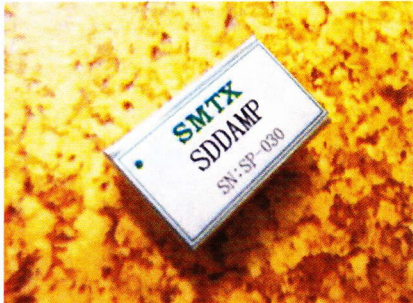
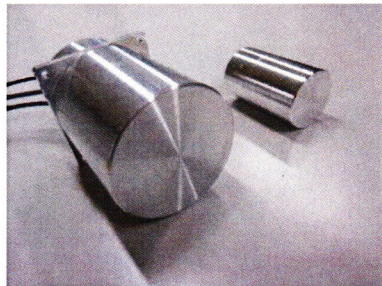
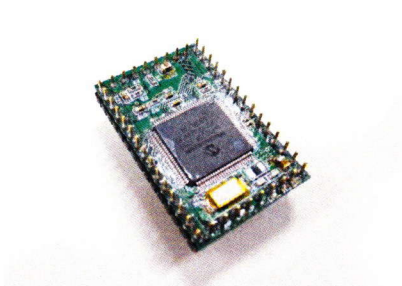


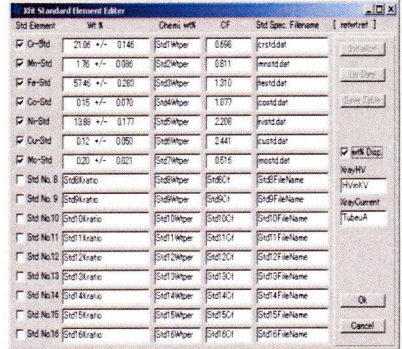
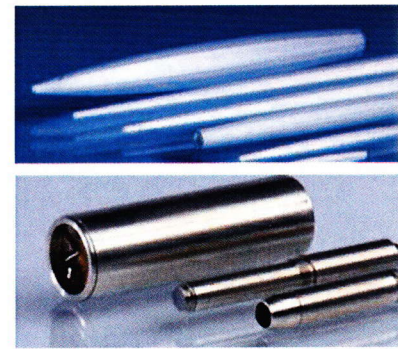
[Specification]

	iFKR-ZIP-A	mFKR	iFKR-ZIP-Pro
Price(no tax added)	¥ 1,980,000	¥ 860,000	¥ 3,500,000
Function	Measure the food, soil, and water.		
Detection limit	1.0Bq/Kg	3.0Bq/Kg	0.1 Bq/Kg(with anti-Compton)
Analyzing nuclide	Cs-134/Cs-137/K-40		
Detector	CsI(Tl) 2 × 2 × 1inch	CsI(Tl) 2 × 2 × 1 inch	Double CsI(Tl) 2 × 2 × 1 inch
Time to stabilize	After 3 minuets of power supply		
Measuring range	80KeV~2MeV		
MCA	4096ch/32bit		
Amount of object	160 g × 2 (320g)	100 g × 2 (200g)	100 g × 1 (100g)
Shield	40mm of lead	50mm of lead	40mm of lead
Weight	約 50Kg	約 70Kg	約 50Kg+
Size	26 × 26 × 18 cm	20 × 20 × 20 cm	26 × 26 × 18 cm
Electricity	AC100V 1A	AC100V 0.5A	AC100V 1A
Environmental	less than 35°C. No condensate of water on machine. no use of Liquid oxygen .		

For improvement, value of Shield and few parts would be changed at occasion.

PARTS

SinmatrikX Co.,Ltd.

ADC2318	ADC2318Trial kit	SDD-AMP
		
ADC2318: ¥120,000 With inspection: ¥150,000	+ trial kit schematic: ¥160,000 + display: ¥180,000	¥150,000
CsI(Tl)Detector	DSU/MCA	AMP
		
1inch crystal: ¥150,000 2inch crystal: ¥350,000	¥70,000	¥70,000
ULTRA FAST PEAKDETECT	16element fractal peak deconvolution program	X-ray poly capillary
		
¥70,000	¥300,000	Special order. Please contact.

Those price are all before add tax.

Corporate profile	
Company name	SinmateikX Co.,Ltd.
President	Shuji Nonaka
Establishment	26/12/2005
Capital	10,000,000Yen
Banker	JOYO BANK
Lines of business	X-ray and radioactive ray measurements Selling and export of measurements of physics and chemistry Developments of PC soft ware
Location	3-19-4 Matsushiro, Tsukuba City, Ibaraki pref., 305-0051 JAPAN
Contact us	TEL: 029-851-8448 FAX: 029-850-3114
Web	http://www.smtx.co.jp
<p>SMTX handling the measurement of X-ray /generator of X-ray, multi channel analyzer, measurement programs and items related to radioactive assumption.</p> <p>We are sure that every single constructive parts of our products are fully studied and developed, we promises that our products are completely finished as an original.</p>	

SMTX

SinmateikX Co.,Ltd.

TEL:029-851-8448 E-mail :info@smtx.co.jp

IPI

International Parts & Information Co., Ltd.

TEL:029-850-3113 E-mail :sales@ipic.co.jp <http://www.ipic.co.jp>