



EMC , RF Chambers & Shielding Room

專業承建電波暗室, 客製電波隔離室, 隔離箱.





➤ **Our Product list : (我們可以提供下列產品製作與工程規劃承建)**

1. EMC Anechoic Chamber

- a. Pre-Test 743 Semi Anechoic Chamber
- b. Standard 3 Meter(966) Semi Anechoic Chamber
- c. Standard 10 Meter Semi Anechoic Chamber

2. RF Anechoic Chamber 844

3. Shielding Room

- a. Out dimensions : 2400 x 2400 x 2400Hmm
- b. Out dimensions : 3000 x 3000 x 2400Hmm
- c. Out dimensions : 4000 x 3000 x 3000Hmm
- d. Out dimensions : 7000 x 3000 x 3000Hmm (For EMI Chamber)
- e. Out dimensions : 7000 x 4000 x 3000Hmm (For EMI Chamber)
- f. Out dimensions : 8000 x 4000 x 4000Hmm (For RS Chamber)
- g. Out dimensions : 9000 x 6000 x 6000Hmm (For EMC Chamber)
- h. Any size shielding room can be by request

4. Special Shielding Room for Special application .

5. Shielding Door – Any size & customize are accepted .

6. Shielding Box – Any function and special request are available .

7 . EMI Components – Power filter, Signal filter , Antenna Master, Ferrite Tile,etc.

8. EMC Software pack for Standard testing .

9. 各項承建, 搬遷, 現場規劃或環境測試 相關業務, 歡迎洽詢討論 !



Pre-Test 743 Semi Anechoic Chamber

Standard equipped :

<u>Part Name</u>	<u>Specification</u>
Shielding Room	Brand : KT-SR743
Model : PAN TYPE	Size : (L)7000*(W)4000*(H)3000mm
Ferrite Absorber	Brand : SAMWHA , Tokin , (or same quality product)
	Model : SN-20
Antenna Mast	Brand : KT
	Model : AM-2000
EUT Turn Table	Brand : KT
	Model : TT-1200

Isolation Meet standard IEEE-299/ EN50147-1
Isolation \geq 100dB @ 30MHz to 18GHz

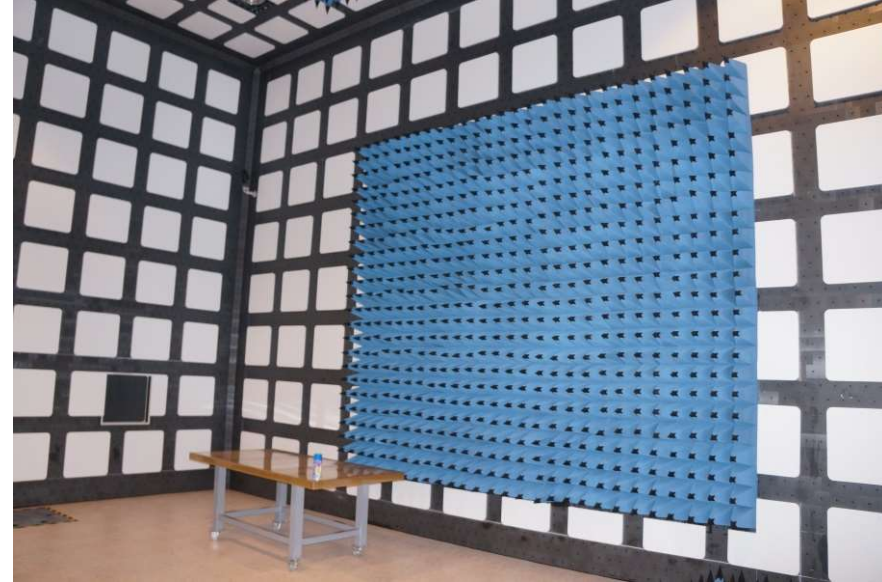




Standard 3 Meter(966) Semi Anechoic Chamber

Standard equipped :

<u>Part Name</u>	<u>Specification</u>
Shielding Room	Brand : KT-SR966
Model : PAN TYPE	Size : (L)9000*(W)6000*(H)6000mm
Ferrite Absorber	Brand : TOKIN (or Same quality product)
	Model : SN-20
RF Absorber	Brand : SIEPEL, Tokin , (or Same quality product)
Antenna Mast	Brand : KT Model : AM-4000
EUT Turn Table	Brand : KT Model : TT-2000
Isolation Meet standard IEEE-299/ EN50147-1	
Meet Isolation $\geq 100\text{dB}$ @ 30MHz to 18GHz	
NSA meet ANSI C63.4 ,Freq:30MHz to 1GHz NSA +/- 4.0dB	





Standard 10 Meter Semi Anechoic Chamber

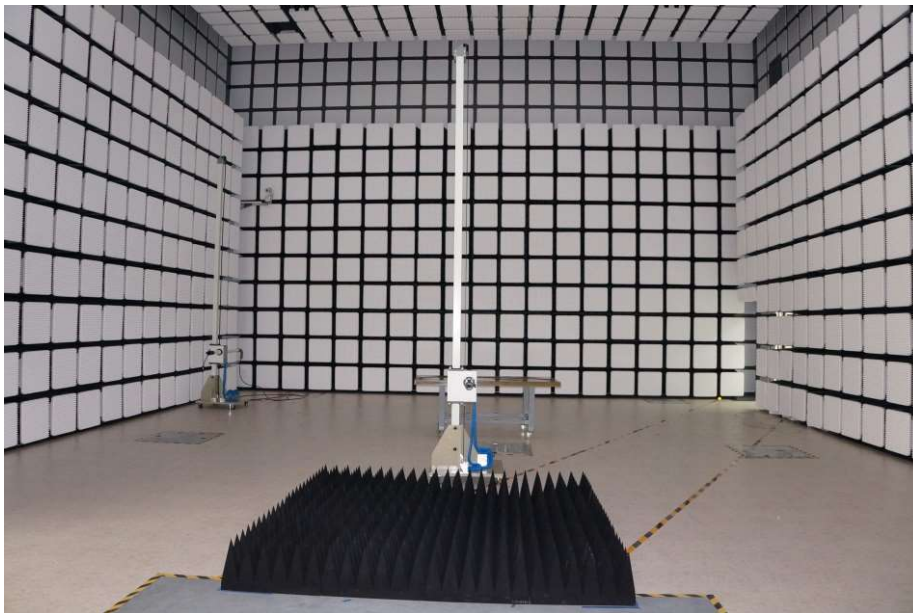
Standard equipped :

<u>Part Name</u>	<u>Specification</u>
Shielding Room	Brand : KT-SR10M
Model : PAN TYPE	Size : (L)21000*(W)13000*(H)9000mm
Ferrite Absorber	Brand : TOKIN (or Same quality product)
RF Absorber	Brand : SIEPEL, TDK, Tokin , (or Higher quality product)
Antenna Mast	Brand : KT Model: AM-2000
EUT Turn Table	Brand : KT Model : TT-3000

Isolation Meet standard IEEE-299/ EN50147-1

Meet Isolation $\geq 100\text{dB}$ @ 30MHz to 18GHz

NSA meet ANSI C63.4 , Freq:30MHz to 1GHz NSA +/- 4.0 dB





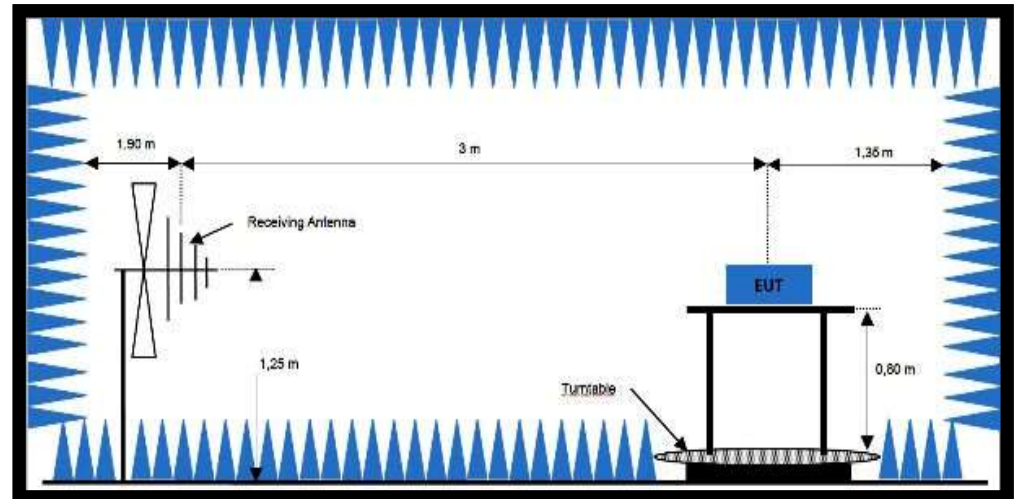
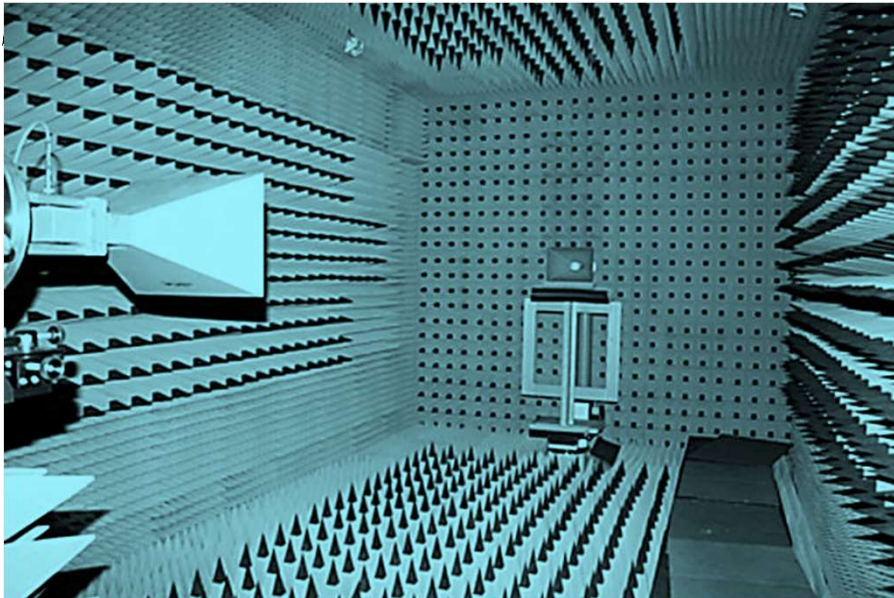
RF Anechoic Chamber 844

Standard equipped

<u>Part Name</u>	<u>Specification</u>
Shielding Room	Brand : KT-SR844
Model : PAN TYPE	Size : L)8000*(W)4000*(H)4000mm
RF Absorber	Brand : SIEPEL, TDK, Tokin , (or Higher quality product)
Antenna Mast	Brand : KT Model : AM-2000
EUT Turn Table	Brand : KT Model : TT-1200

Isolation Meet standard IEEE-299/ EN50147-1
Meet Isolation $\geq 100\text{dB}$ @ 30MHz to 18GHz

Quiet zone: 50cm , 600MHz to 1GHz +/-1.5dB
1GHz to 6GHz +/-1.5dB





Pan Type Shielding Room

(平板式隔離室承建與各尺寸規格介紹)

Standard Size shielding Room :

- a. Out dimensions : 2400 x 2400 x H2400 mm
- b. Out dimensions : 3000 x 3000 x H2400 mm
- c. Out dimensions : 4000 x 3000 x H3000 mm
- d. Out dimensions : 7000 x 3000 x H3000 mm (For EMC Chamber)
- e. Out dimensions : 7000 x 4000 x H3000 mm (For EMC Chamber)
- f. Out dimensions : 8000 x 4000 x H4000 mm (For RF Chamber)
- g. Out dimensions : 9000 x 6000 x H6000 mm (For EMC Chamber)
- h. Any size shielding room can be by request .

<u>Part Name</u>	<u>Specification</u>
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Material	Galvanized steel 2mm (thickness).
Shielding Door	Model a : Manuel type , Two knife . size:(W)0.9m*(H)2 m
Shielding Door	Model b : Electric control , Two knife . size:(W)0.9m*(H)2 m
Honeycomb	Size: (L)300mm * (W)300mm * (T)45mm
Lighting	Jewelry and/or T5 lamps (or Customer request)
Power system	By request
Power line filter	Voltage :AC 110V~240V Current : 30A
Signal Access Panel	Standard size:(L)400mm * (W)200mm
Wave Guide	Standard size: 2 inch
Signal Filter	By request

Isolation meet standard IEEE-299/ EN50147-1 , Isolation ≥ 100 dB @ 30MHz to 18GHz



Shielding Room Material (隔離室材料介紹與承製)

galvanized steel Panel



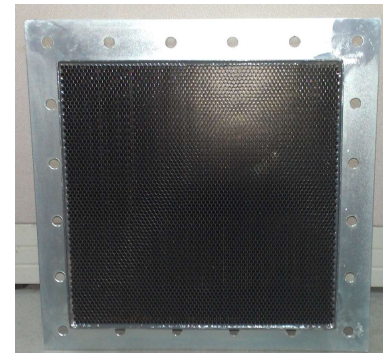
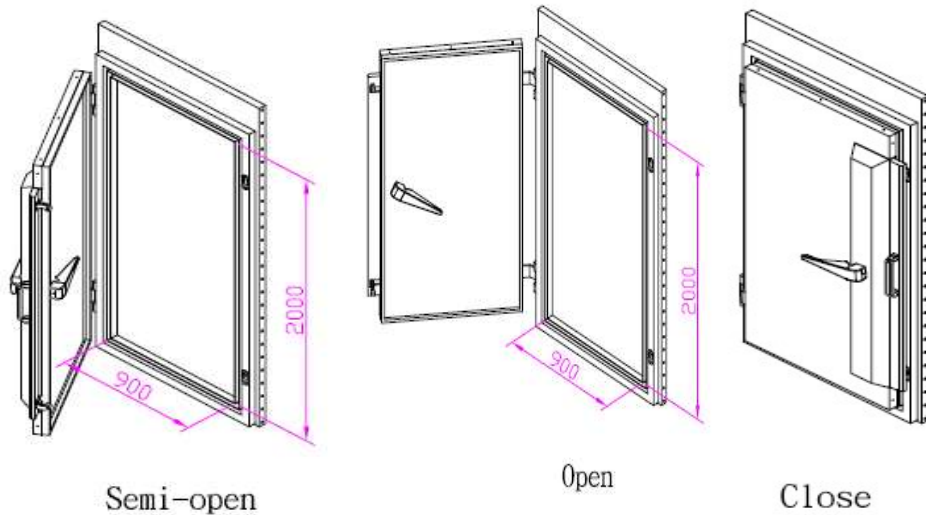
Power line filter
Voltage :110V~240V
Current:30A



Lighting



Shielding door size:(W)0.9m*(H)2 m



Honeycomb
Air flow window

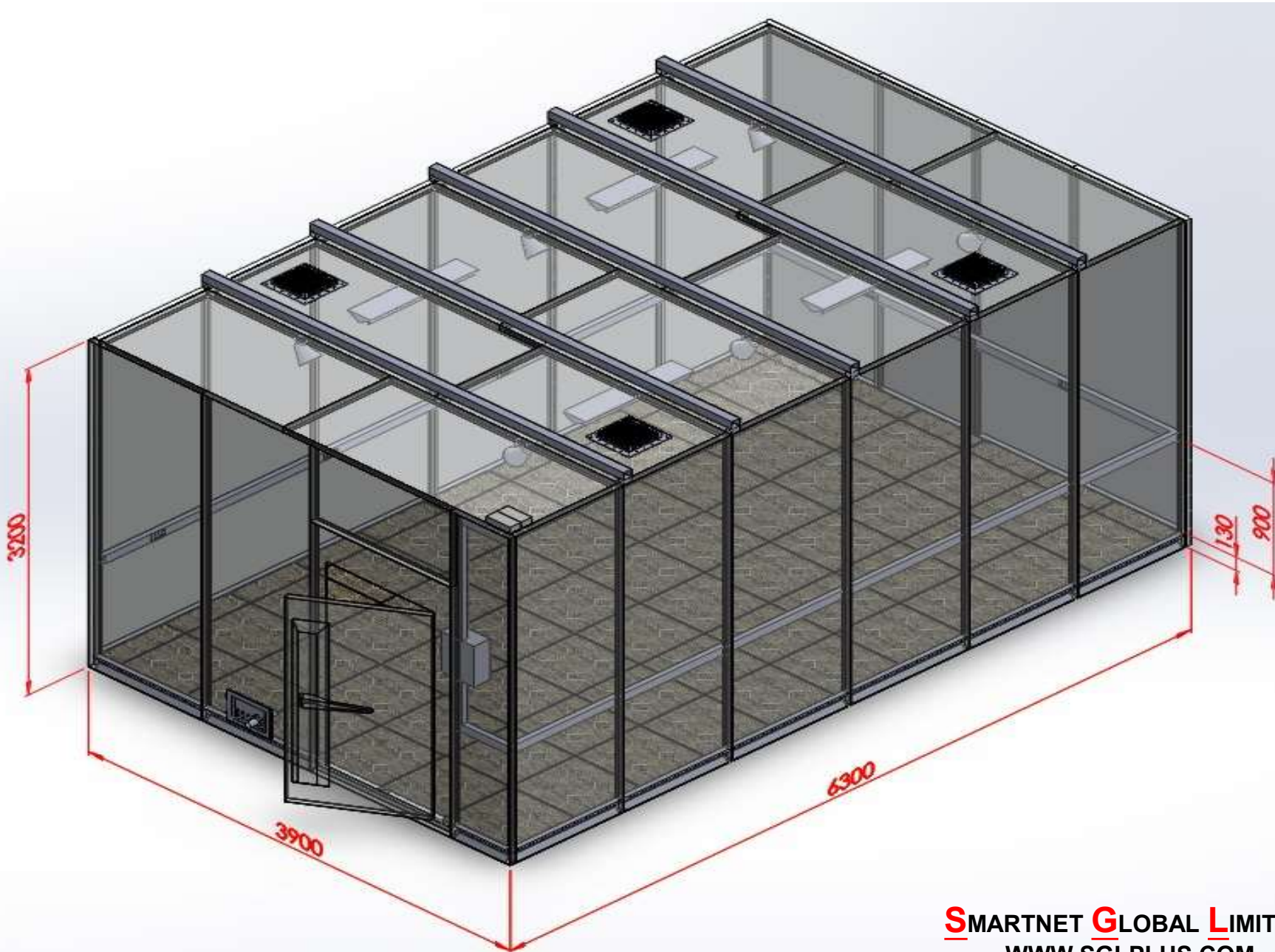


Signal panel
Standard size:
(L)400mm *(W)200mm



Shielding Room Structure 隔離室承建架構圖

(Any size shielding room can be by request .) --各式尺寸皆可客製要求





Shielding Room upgrade with decoration

隔離室承建. 升級與內部裝修要求

Shielding room after completed

➤ (Inside Without decoration)



Shielding room after completed

➤ (Outside without decoration)



Shielding room after completed

➤ (Inside with decoration 1)



Shielding room after completed

➤ (Outside with decoration 2)





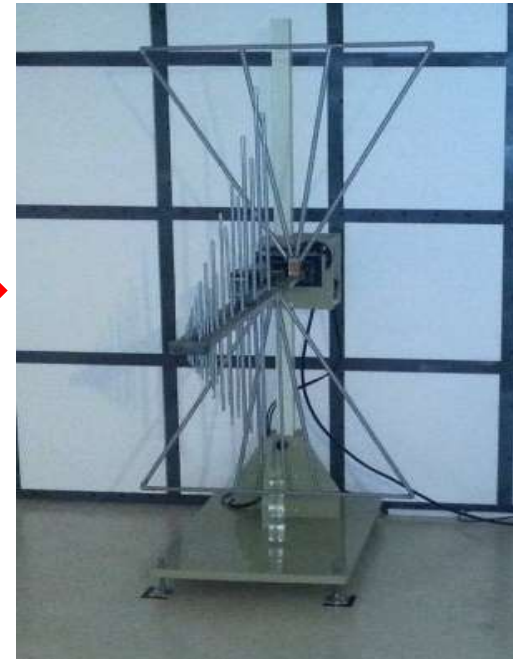
Components for SR & EMC Chambers

暗室與隔離室承建-部件製作

1. Antenna Mast 天線架總成

Technical Data

Model	AM- 2000
Model	AM-4000
Height	1.0m ~ 2.0m / 1.0m~4.0m
Loading	10kg
Speed	1 ~ 6cm/sec
Position	0° / 90° (Air Control)
Motor	DC motor
Power	100 / 220V · Max.5A
Interface	Optic-fiber control



2. EUT Turn Table 待測物轉桌

Technical Data

Model	TT-1200
Model	TT-1500
Model	TT-2000
Diameter	1.2m & 1.5m & 2.0m
Loading	300 ~ 1,000kg
Motor	Electronic motor
Power	220V · Max.5A
Interface	Optic-fiber control





Components for SR & EMC Chambers

暗室與隔離室承建-部件製作

3. Positioning Controller 定位控制器

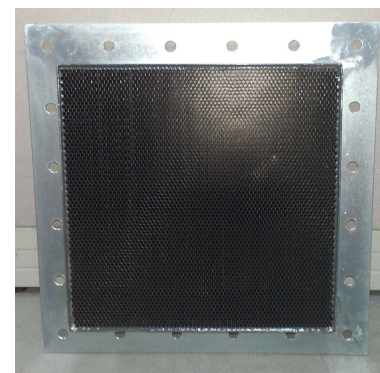
Technical Data	Specification
Model	CR-2000C
I/O	IEEE 488
Motor	Electronic DC motor
Power	110V / 220V(Switchable)
Interface	Optic-fiber control

Positioning Controller



4. Honeycomb 通風蜂巢網

Brand	KT
Size	300*300*45mm(L*W*H)
Type	Copper / Module
Fx range	30MHz to 18GHz
Isolation	100dB



Honeycomb Air flow window

5. Signal Access Panel 信號轉接盤

Standard equipped	N Connector
	SMA Connector
	BNC Connector
	Optic Fiber connector
	Wave Guide 2 "
	Additional signal filter by request .

Signal panel
Standard size:
(L)400mm * (W)200mm





Components for SR & EMC Chambers

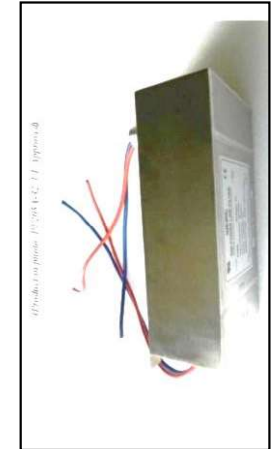
暗室與隔離室承建-部件製作

6. Power Line Filter – 電源濾波器

Spec 1	Single Phase -5AMPS
Spec 2	Single Phase -30AMPS
Insertion loss	14KHz to 10GHz
Isolation	100dB
Standard	MIL-STD-220A

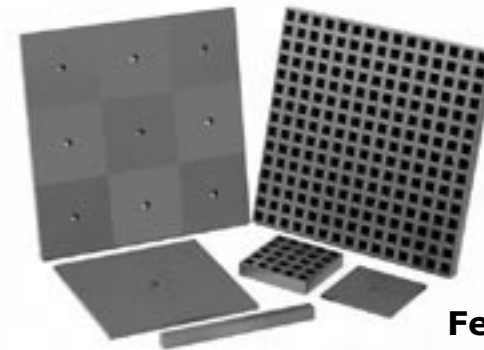


Power line filter



7. Ferrite Tile absorber 鐵氧體吸波磚

Brand	TOKIN ,
Model	SN-20
Size	100*100*6.7 mm(L*W*T)
Spec	30-1000MHz



Ferrite Tile absorber

8. Microwave Absorber 吸波泡綿

Brand	TOKIN (Made in Japan)
Model	AR-12/18/24/36
Frequency	600MHz~6GHz



Microwave Absorber



Components for SR & EMC Chambers

暗室與隔離室承建-部件製作

9. Standard shielding door 各式標準隔離門

1、Manuel type (手動開關門)

Brand	KT
Model	KTSRD-M
Size	W : 1.0m · H : 2.0m W : 1.2m · H : 2.0m
Structure	Two knife
Switch	Manuel
Color	Ivory
Frequency Range	30MHz to 18GHz
Isolation	> 100dB



2、Electric switch type (電動開關門)

Brand	KT
Model	KTSRD-ES
Size	W : 1.0m · H : 2.0m W : 1.2m · H : 2.0m
Structure	Two knife
Switch	Electric switch
Color	Ivory
Frequency Range	30MHz to 18GHz
Isolation	> 100dB



3、Slide type (側開滑動門)

Brand	KT
Model	KTSRD-SES
Size	W : 2.0m · H : 2.0m W : 2.5m · H : 2.5m W : 3.0m · H : 3.0m
Structure	Two knife
Switch	Electric switch
Color	Ivory
Frequency Range	30MHz to 18GHz
Isolation	>100dB





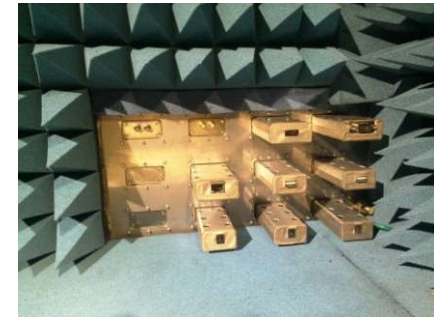
Mobile shielding & small Chamber box

Shield box : 隔離箱製作承接 .

1. Welcome customized or special request . 歡迎客製化或特殊設計 要求 .
2. Product sample (Mobile shielding for system use) 移動式或系統機箱製作

Standard specification :

1. Size : All size are acceptable by request .
2. Signal Access panel : All signal filter are acceptable by request .



**3. Shielding door controller
Manual Type**



**Electric door switch type
Push bottom**



**Special Application
For IC Testing .**

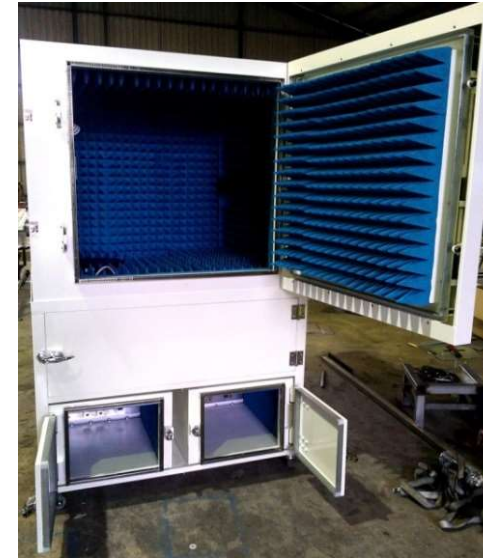




Mobile shielding & small Chamber box

Shield box : 隔離箱製作承接 .

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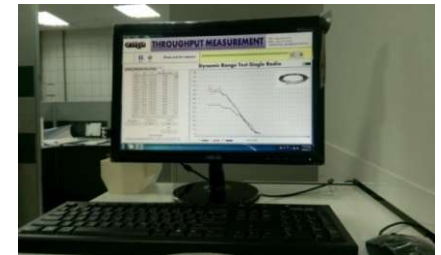
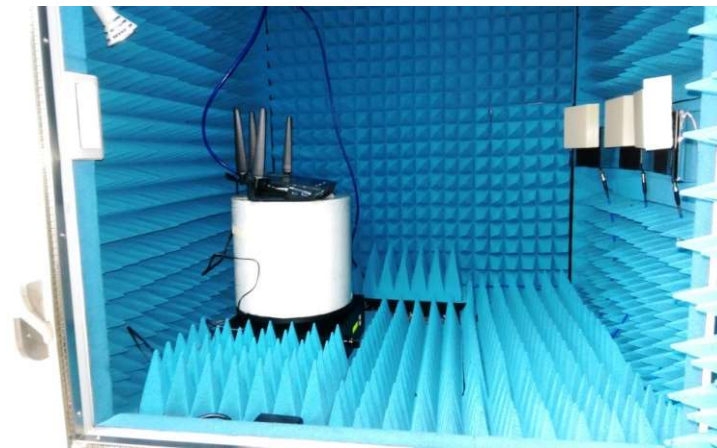


Isolation meet standard IEEE-299/ EN50147-1 , Isolation $\geq 100\text{dB}$ @ 800MHz to 20GHz



WTT-127A Wireless Throughput Tester

無線訊息吞吐率測試系統 (小型專利架構)



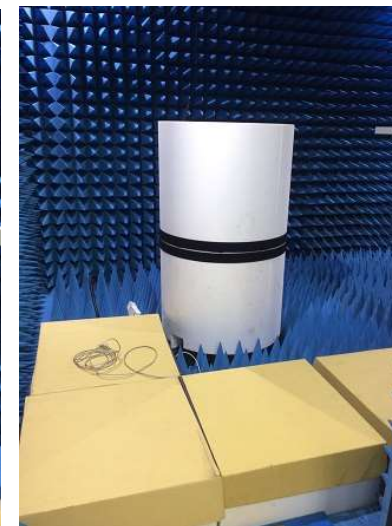


MIMO-Throughput Chamber Re-structure

無線訊息吞吐率測試系統新造或改裝升級工程承建

MIMO-Throughput Chamber 4X4

1. 或新造MIMO-Throughput Chamber 5 x3 x4 m (EUT to Antenna = 3m)
1. 原EMC Chamber 改裝工程 (EUT to Antenna = 3m)
2. 原OTA –Antenna measurement Chamber 改裝工程 (EUT to Antenna = 3m)
3. 原隔離室改裝Throughput Chamber 工程 (EUT to Antenna = 3m)
4. Turntable (5-25Kg/ 30~70 cm / 15°/step , 30°/step , 45°/ step , 0-360 °)
5. Programmable Attenuator 0-135db . 4x4-Channel . (Conductive mode test included)
6. System control & Chariot throughput measurement software .





EMC Software pack for Standard testing

各種測試軟體客製化與專案承接

◆ Dr.E Measurement system (EMC & RF)

Dr. E auxiliary EMI Test / RF Test software, you can observe, record, measure, analyze the required frequency range is also a single point or frequency, then after finishing the reporting system, show the complete test results.





EMC Software pack for Standard testing

各種測試軟體客製化與專案承接

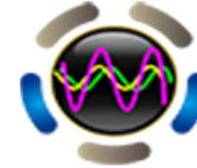
◆ Dr.E Measurement system (EMC & RF)



EMI Test Software
(Electro Magnetic Interference)



NSA Test Software
(Normalized Site Attenuation)



SVSWR Test Software
(Site Voltage Standing wave Ratio)



EIRP Test Software
(Equivalent Isotropically Radiated Power)



RSE Test Software
(Radiated Spurious Emissions)



Conducted Test Software



Business policy 生意方針

- **Product meet international standards .**
Meet : ANSI 、MIL 、IEC EN international standards.
符合各類國際測試法規要求

- **Better quality with competitive price .**
更好的品質與更優惠的價格 .

- **The best design ability and flexible production capacity. (產品設計彈性化)**
 - **Customize design are welcome .(歡迎客製化規格)**
 - **Welcome discuss for new applications . (歡迎新功能規格討論)**

- **Module design for high reliability and shorten lead time for delivery .**
(模組化設計承建 , 提供更高產品可靠度與縮短工期.)

- **The best team work for construction and after service**
(最佳工程團隊, 提供最佳承建品質與售後服務)

- **Welcome for any enquiry and co-work in EMC chamber/ SR field .**
(歡迎案件洽詢或暗室隔離室案件合作)

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