### **Technical Data Sheet**

# IG-712E

IG-712E Modular Shielding enclosure.

Over The Air (OTA) test and measurement chamber. Full shielding cabinet - high attenuation performance on range of frequency.

**IG-712E** design for testing any wireless transmission such as: Wi-Fi, Bluetooth, RFID, 3G / 4G /5G, WLAN, GPS and WiMAX. It may also be used for cell-site testing, RF resistor testing. Any UUT / Antennas / Radar / Sensitivity tests and more.







#### Accessories

- 4 x Honeycomb vent windows
   265X265mm
- 4 x IO panels for RF Filters.
- Exhaust fan Vent system.
- SMA / Ntype / BNC and other adaptors & connectors
- Filtered terminal 220VAC
- AC power supply plug in + cord cable
- Filtered terminal 50VDC max 20 Amp with DC plugs
- Double lip RF sealing
- Grounding Point
- RF filters by request (USB/LAN/Dtype/HDMI/others.

#### **Optional Accessories**

- Anechoic absorber lining for the interior surface
- Custom IO's panels with any filtered connectors you may need.
- Waveguide for optic fibers
- RF shielded observation window
- Additional in-port/out-port systems
- Extra custom-made requirement

#### Features

- Modular Chamber Distance / Length by choice.
- Chamber can be vertical or horizontal on lab.
- Fast, reliable EMI/RFI testing and verification, while providing 100% effective shielding of -90dB minimum attenuation tested as per as MIL-STD-285D up to 6GHz
- High performance construction of SAE 1020 and EMC shielding with ROHs compliant welding and RAL 9010 STD coating.
- Manual operation with front loading, easy opening doors.
- Shielding tested under lab conditions with signal generator by spectrum analyzer and conforming antenna.
- Custom-made product adaptable to OTA application.
- Pyramidal RF Absorbers inside.
- Antenna and UUT stand inside (each side)

## **Technical Data Sheet**

# **IG-712E**



### **Technical Data**

Dimensions - External         Dimensions - Internal           Width: 202cm         Width: 142cm           Depth: 100cm         Depth: 60cm           Hight: 700cm         Hight: 60cm           '20/30 cm absorbers         Waterial           Material         Opening System           Body: SAE 1020         Manual operation           Door: SAE 1020         Front loading           Starters: SAE 1020         2 doors, side open           Branes: SAE 1020         RF shielding doors           Startexter: SAE 1020         RF shielding doors           Fran: Rubber, Sponge and Plastic         Startents           Baskets: Rubber, Sponge and Plastic         Air vents           220 VAC max 16 Amp         4XEMI shielded windows (honeycomb) 265X265           4 outlet power strip 220 VAC         Up tp 8X AC fan 80x80 - 40 CFM, magnetic - bearing, silence           External power cable 220 VAC + plug         Detter and surfaces covering with RF absorber foam           OF plate         Internal RF absorber           SMA / Ntype / BNC / Ftype connetors         Internal RF absorber foam           Fiber optic and RF filters         Material surfaces covering with RF absorber foam           Fiber optic and RF filters         Colefty - 10GHz > 90dB           Attenation level         Quality	IG-712E	
Width: 202cm         Width: 142cm           Depth: 10cm         Depth: 60cm           Hight: 60cm         Width: 20/50 cm           20/50 cm absorbers         Hight: 60cm           20/50 cm absorbers         Pening System           Sdy: SAE 1020         Manual operation           Door: SAE 1020         Front loading           Frames: SAE 1020         2 doors, side open           Brackets: SAE 1020         RF shielding doors           Frans: Rubber, Sponge and Plastic         Sectors           Gaskets: Rubber, Sponge and Plastic         Electric system           220 VAC max 16 Amp         4XEMI shielded windows (honeycomb) 265X265           4 outlet power strip 220 VAC         Up tp 8X AC fan 80x80 - 40 CFM, magnetic - bearing, silence           External power cable 220 VAC + plug         Sectors           DC filter with easy-to-use plug in.         Internal RF absorber           NMA / Ntype / BNC / Ftype connetors         Internal RF absorber foam           Fiber optic and RF filters         Sectoring with RF absorber foam           D10cript act and RF filters         Sector act and RF filters           Attenuation level         Quality           D10cript a - 106Hz > 90dB         Testing according to MIL-STD 285           D10cript a - 506Hz > 90dB         A C.0.A will be attached to each box.<	Move in dimensions - 70cm parts0	
Depth: 110cm         Depth: 60cm           Hight: 10cm         Hight: 60cm           '20/30 cm absorbers         Manual operation           Material         Opening System           36dy: SAE 1020         Manual operation           Door: SAE 1020         Front loading           Frames: SAE 1020         2 doors, side open           Brackets: SAE 1020         RF shielding doors           Fran: Rubber, Sponge and Plastic         Image: Sae State Sta	Dimensions – External	Dimensions – Internal
Hight: 10cm     Hight: 60cm       '20/30 cm absorbers     Opening System       Material     Opening System       Body: SAE 1020     Manual operation       Door: SAE 1020     Front loading       Frames: SAE 1020     2 doors, side open       Brackets: SAE 1020     RF shielding doors       Far: Rubber, Sponge and Plastic     Seakets: Rubber, Sponge and Plastic       Saskets: Rubber, Sponge and Plastic     Air vents       220 VAC max 16 Amp     4XEMI shielded windows (honeycomb) 265X265       4 outlet power strip 220 VAC     Up tp 8X AC fan 80x80 - 40 CFM, magnetic - bearing, silence       External power cable 220 VAC + plug     Internal RF absorber       OC filter with easy-to-use plug in.     Internal RF absorber       SMA / Ntype / BNC / Ftype connetors     Internal RF absorber       SIMA / Ntype / BNC / Ftype connetors     Internal RF absorber       SIMA / Ntype / BNC / Ftype connetors     Internal surfaces covering with RF absorber foam       Fiber optic and RF filters     Quality       D.10Hz - 1.0GHz > 90dB     Ac.O.A will be attached to each box.       S.0GHz - 6.0GHz > 90dB     Final Attenuation level will set as per as the weak chosen connector	Width: 202cm	Width: 142cm
Z2/30 cm absorbers         Material       Opening System         Bady: SAE 1020       Manual operation         Daor: SAE 1020       Front loading         Frames: SAE 1020       2 doors, side open         Brackets: SAE 1020       RF shielding doors         Brackets: SAE 1020       RF shielding doors         Fan: Rubber, Sponge and Plastic       Saskets: Rubber, Sponge and Plastic         Saskets: Rubber, Sponge and Plastic       Air vents         220 VAC max 16 Amp       4XEMI shielded windows (honeycomb) 265X265         4 outlet power strip 220 VAC       Up tp 8X AC fan 80x80 - 40 CFM, magnetic - bearing, silence         External power cable 220 VAC + plug       Door         DC filter with easy-to-use plug in.       Internal RF absorber         Material lighting       Internal RF absorber         SMA / Ntype / BNC / Ftype connetors       Internal RF absorber         SMA / Ntype / BNC / Ftype connetors       Internal surfaces covering with RF absorber foam         Fiber optic and RF filters       Material according to MIL-STD 285         Attenuation level       Quality         D.16Hz - 1.06Hz > 90dB       A C.0.A will be attached to each box.         S.06Hz - 6.06Hz > 90dB       Final Attenuation level will set as per as the weak chosen connector	Depth: 110cm	Depth: 60cm
Material         Opening System           Body: SAE 1020         Manual operation           Door: SAE 1020         Front loading           Frames: SAE 1020         2 doors, side open           Brackets: SAE 1020         RF shielding doors           Farmes: SAE 1020         RF shielding doors           Far. Rubber, Sponge and Plastic	Hight: 110cm	Hight: 60cm
Bady: SAE 1020       Manual operation         Door: SAE 1020       Front loading         Frames: SAE 1020       2 doors, side open         Brackets: SAE 1020       RF shielding doors         Brackets: SAE 1020       RF shielding doors         Fan: Rubber, Sponge and Plastic	*20/30 cm absorbers	
Door: SAE 1020       Front loading         Frames: SAE 1020       2 doors, side open         Brackets: SAE 1020       RF shielding doors         Fan: Rubber, Sponge and Plastic       Image: Sage state st	Material	Opening System
Frames: SAE 1020       2 doors, side open         Brackets: SAE 1020       RF shielding doors         Fan: Rubber, Sponge and Plastic	Body: SAE 1020	Manual operation
Brackets: SAE 1020       RF shielding doors         Fan: Rubber, Sponge and Plastic       Saskets: Rubber, Sponge and Plastic         Brackets: Rubber, Sponge and Plastic       Air vents         Electric system       Air vents         220 VAC max 16 Amp       4XEMI shielded windows (honeycomb) 265X265         4 outlet power strip 220 VAC       Up tp 8X AC fan 80x80 - 40 CFM, magnetic - bearing, silence         External power cable 220 VAC + plug       DC filter with easy-to-use plug in.         Internal RF absorber       Internal RF absorber         SMA / Ntype / BNC / Ftype connetors       Internal RF absorber         Fiber optic and RF filters       Quality         D.10Hz - 1.0GHz > 90dB       Testing according to MIL-STD 285         1.0GHz - 3.0GHz > 90dB       A C.O.A will be attached to each box.         3.0GHz - 6.0GHz > 90dB       Final Attenuation level will set as per as the weak chosen connector	Door: SAE 1020	Front loading
Fan: Rubber, Sponge and Plastic Gaskets: Rubber, Sponge and Plastic Gaskets: Rubber, Sponge and Plastic Electric system Air vents Air vents Air vents Auxents Auxents Auxents Duc filter with easy-to-use plug in. Internal power cable 220 VAC + plug Duc filter with easy-to-use plug in. Internal lighting Internal RF absorber Internal RF absorber Internal surfaces covering with RF absorber foam Fiber optic and RF filters Attenuation level Duc filter > 90dB A C.O.A will be attached to each box. Subdra 2.90dB A C.O.A will be attached to each box. Comparison of the system connector Comparison of the system conne	Frames: SAE 1020	2 doors, side open
Gaskets: Rubber, Sponge and Plastic       Air vents         Electric system       Air vents         220 VAC max 16 Amp       4XEMI shielded windows (honeycomb) 265X265         4 outlet power strip 220 VAC       Up tp 8X AC fan 80x80 - 40 CFM, magnetic - bearing, silence         External power cable 220 VAC + plug       DC filter with easy-to-use plug in.         Internal lighting       Internal RF absorber         O's plate       Internal RF absorber         SMA / Ntype / BNC / Ftype connetors       Internal surfaces covering with RF absorber foam         Fiber optic and RF filters       Quality         D.0.GHz - 1.0GHz > 90dB       Testing according to MIL-STD 285         1.0GHz - 3.0GHz > 90dB       A C.O.A will be attached to each box.         3.0GHz - 6.0GHz > 90dB       Final Attenuation level will set as per as the weak chosen connector	Brackets: SAE 1020	RF shielding doors
Air vents         220 VAC max 16 Amp       4XEMI shielded windows (honeycomb) 265X265         4 outlet power strip 220 VAC       Up tp 8X AC fan 80x80 - 40 CFM, magnetic - bearing, silence         External power cable 220 VAC + plug       DC filter with easy-to-use plug in.         DC filter with easy-to-use plug in.       Internal RF absorber         Internal RF absorber       Internal RF absorber         SMA / Ntype / BNC / Ftype connetors       Internal surfaces covering with RF absorber foam         Fiber optic and RF filters       Quality         0.1GHz - 1.0GHz > 90dB       Testing according to MIL-STD 285         1.0GHz - 3.0GHz > 90dB       A C.O.A will be attached to each box.         3.0GHz - 6.0GHz > 90dB       Final Attenuation level will set as per as the weak chosen connector	Fan: Rubber, Sponge and Plastic	
220 VAC max 16 Amp       4XEMI shielded windows (honeycomb) 265X265         4 outlet power strip 220 VAC       Up tp 8X AC fan 80x80 - 40 CFM, magnetic - bearing, silence         External power cable 220 VAC + plug       DC filter with easy-to-use plug in.         Internal lighting       Internal RF absorber         IO's plate       Internal RF absorber         SMA / Ntype / BNC / Ftype connetors       Internal surfaces covering with RF absorber foam         Fiber optic and RF filters       Quality         D.O.GHz - 1.0GHz > 90dB       A C.O.A will be attached to each box.         3.0GHz - 6.0GHz > 90dB       Final Attenuation level will set as per as the weak chosen connector	Gaskets: Rubber, Sponge and Plastic	
4 outlet power strip 220 VAC       Up tp 8X AC fan 80x80 - 40 CFM, magnetic - bearing, silence         External power cable 220 VAC + plug       DC filter with easy-to-use plug in.         Internal lighting       Internal RF absorber         IO's plate       Internal RF absorber         SMA / Ntype / BNC / Ftype connetors       Internal surfaces covering with RF absorber foam         Fiber optic and RF filters       Quality         0.1GHz - 1.0GHz > 90dB       Testing according to MIL-STD 285         1.0GHz - 3.0GHz > 90dB       A C.O.A will be attached to each box.         3.0GHz - 6.0GHz > 90dB       Final Attenuation level will set as per as the weak chosen connector	Electric system	Air vents
External power cable 220 VAC + plug         DC filter with easy-to-use plug in.         interrail lighting         Internal RF absorber         SMA / Ntype / BNC / Ftype connetors         Fiber optic and RF filters         Attenuation level         Quality         D.1GHz - 1.0GHz > 90dB         1.0GHz - 3.0GHz > 90dB         ACOLA will be attached to each box.         Store of the second box.         Final Attenuation level will set as per as the weak chosen connector	220 VAC max 16 Amp	4XEMI shielded windows (honeycomb) 265X265
DC filter with easy-to-use plug in.         Internal lighting         IO's plate         Internal RF absorber         SMA / Ntype / BNC / Ftype connetors         Internal surfaces covering with RF absorber foam         Fiber optic and RF filters         Attenuation level         0.1GHz - 1.0GHz > 90dB         1.0GHz - 3.0GHz > 90dB         AC.O.A will be attached to each box.         Final Attenuation level will set as per as the weak chosen connector	4 outlet power strip 220 VAC	Up tp 8X AC fan 80x80 - 40 CFM, magnetic - bearing, silence
Internal lighting IO's plate Internal RF absorber Internal RF absorber Internal surfaces covering with RF absorber foam Internal surfac	External power cable 220 VAC + plug	
Internal RF absorber         SMA / Ntype / BNC / Ftype connetors       Internal surfaces covering with RF absorber foam         Fiber optic and RF filters       Internal surfaces covering with RF absorber foam         Attenuation level       Quality         0.1GHz - 1.0GHz > 90dB       Testing according to MIL-STD 285         1.0GHz - 3.0GHz > 90dB       A C.O.A will be attached to each box.         3.0GHz - 6.0GHz > 90dB       Final Attenuation level will set as per as the weak chosen connector	DC filter with easy-to-use plug in.	
SMA / Ntype / BNC / Ftype connetors       Internal surfaces covering with RF absorber foam         Fiber optic and RF filters       Quality         Attenuation level       Quality         D.1GHz - 1.0GHz > 90dB       Testing according to MIL-STD 285         1.0GHz - 3.0GHz > 90dB       A C.O.A will be attached to each box.         S.O.GHz - 6.0GHz > 90dB       Final Attenuation level will set as per as the weak chosen connector	Interrail lighting	
Fiber optic and RF filters       Quality         Attenuation level       Quality         0.1GHz - 1.0GHz > 90dB       Testing according to MIL-STD 285         1.0GHz - 3.0GHz > 90dB       A C.O.A will be attached to each box.         3.0GHz - 6.0GHz > 90dB       Final Attenuation level will set as per as the weak chosen connector	IO's plate	Internal RF absorber
Attenuation level     Quality       0.1GHz - 1.0GHz > 90dB     Testing according to MIL-STD 285       1.0GHz - 3.0GHz > 90dB     A C.O.A will be attached to each box.       3.0GHz - 6.0GHz > 90dB     Final Attenuation level will set as per as the weak chosen connector	SMA / Ntype / BNC / Ftype connetors	Internal surfaces covering with RF absorber foam
D.1GHz - 1.0GHz > 90dB       Testing according to MIL-STD 285         1.0GHz - 3.0GHz > 90dB       A C.O.A will be attached to each box.         3.0GHz - 6.0GHz > 90dB       Final Attenuation level will set as per as the weak chosen connector	Fiber optic and RF filters	
1.0GHz - 3.0GHz > 90dB     A C.O.A will be attached to each box.       3.0GHz - 6.0GHz > 90dB     Final Attenuation level will set as per as the weak chosen connector	Attenuation level	Quality
3.0GHz - 6.0GHz > 90dB       Final Attenuation level will set as per as the weak chosen connector	0.1GHz – 1.0GHz > 90dB	Testing according to MIL-STD 285
	1.0GHz – 3.0GHz > 90dB	A C.O.A will be attached to each box.
Warranty – one year from delivering	3.0GHz - 6.0GHz > 90dB	Final Attenuation level will set as per as the weak chosen connector
		Warranty – one year from delivering

