Model MSX600

Xray Inspection Ssytem





Ver 21-0801



1. Feature

MSX600 is with space-saving type X ray inspection system, and the purpose of use is the internal inspection of electronic components, such as BGA, CSP.

(1) The newest mini focus X rays generator

A clear fluoroscopy image can be got with the minute focal spot size of 100 micronmeters. And it can supply at a very reasonable price.

(2) Angle Flouroscopy

0-50-degree angle fluoroscopy is also possible.

(3) The digital image detector of high resolution

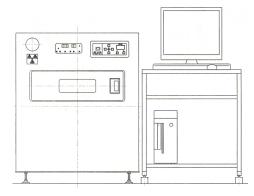
It has 2,300,000-pixel image converter.

Therefore, An image is clear.

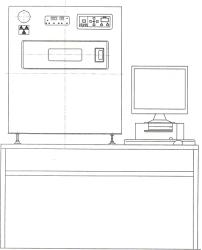
(4) Compact size and easy to operation.

Since the size of equipment is 74Wx92.5Hx70D cm, it can be used also on a work desk.

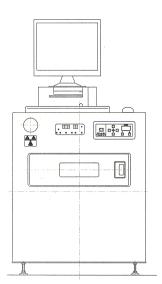
1 On the floor



3 On the Desk



2 On the floor



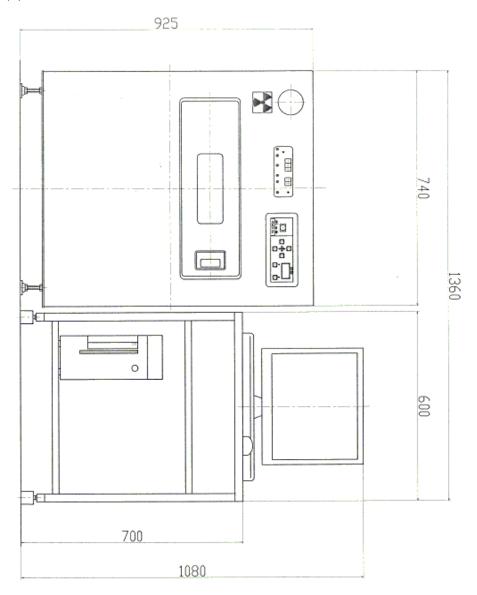
2. Main Specifications,

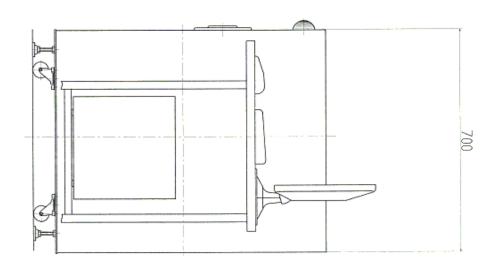
	型 式 Ty	ре		MSX600-(L)	MSX600
X線源 X−ray source	最大管電圧 Max. tube voltage		100kV		
	最大管電流	最大管電流 Max. tube current		300 μ A	
	焦点寸法	Focus size		100 μ m	
	最大出力	Maxir	num output	27W	
	X線管方式	X-ray	tube type	密閉式	Closed type
検 出 器	X線CMOSカメラ			16V x 22H n	nm 230万画素
Detector	X-ray CMOS camera		16V x 22H mm	2,300,000 pixel	
モニタ Monitor	画面サイズ Image size		17ir	n LCD	
	CPU			Intel Core i3-6100 (3.7GHz 2C/4T L3:3MB)	
PC環境	メモリ Memory		4GB DDR4 SDRAM		
	ストレージ	ノージ Storage		3.5"HDD 1TB SATA	
environment			Windows 10 IoT En	terPrise 2019LTSC 32bit	
	画像処理 Image processing software			Image improvement software	
	装置寸法	装置寸法 Dimensions		740W × 925H(本体)× 700Dmm
	装置重量	Weight		約160kg Approx. 160kg	
	動力源	Power source		230V AC 0.5KVA	
	X線漏洩線量	Radia	tion method	1 μ Sv/h 以下	Less than 1 μ Sv/h
	X線防護方式	Prote	ction method	防X線特殊キャビネット	X-ray-proof special cabinet
本 体 Main body	傾斜透視角		e of X-ray e angle	0~50°	O°
	透視拡大率	X-ray image magnification		10× more times (inverse proportion to pixels)	
	テーブル面積 Table area		330W × 440Dmm		
	テーブルストロ	ルストローク X Stroke		180mm	
	Table stroke Y Stroke		180mm		

The specification are subject to change without notice.

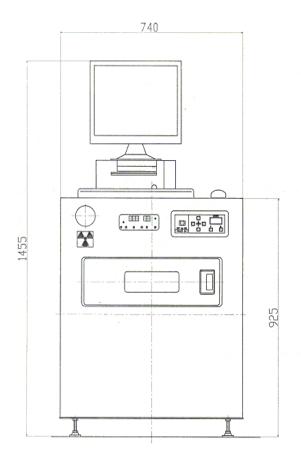
3. MSX600 Over View

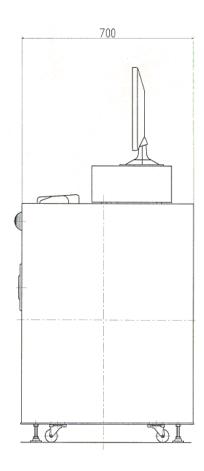
(1) On the floor



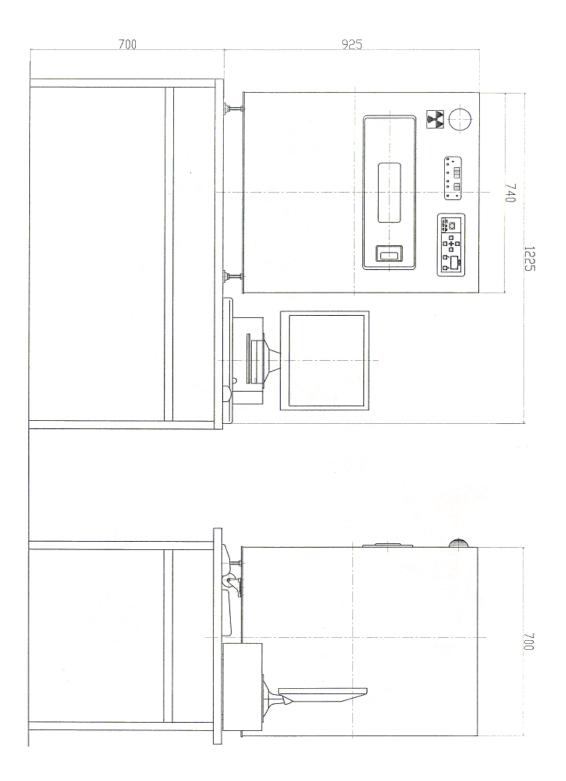


(2) On the floor





(3)On the Table



4. Description of the system

(1) X ray Generator

Туре	By KINKI GX60-X ray Unit	
Voltage (Max)	100Kv	
Current (Max)	300 <i>μ</i> A	
Out Put	27W	
Focus Size	100 <i>μ</i> m	
Focus Position	99. 7mm from the unit	
X ray Tube	Closed Type	

(2) CMOS Camera

Туре	XP-SZ-DD
Input	16V x 22H mm
CCD	2,300,000 pixel
Video Signal	Gig E Digital

(3) PC

Туре	Techpal w10 L3.3
CPU	Intel Core i3-6100 (3.7GHz 2C/4T L3:3MB)
Memory	4GB DDR4 SDRAM
Strage	3.5"HDD 1TB SATA
o s	Windows 10 IoT EnterPrise 2019LTSC 32bit

(5) LED Display

Туре	I∕O DATA LCD-AD 172SEW	
Display	TFT17	
Resolution	1280 × 1024	
Size	337.9 × 270.3 mm	
Color	16770K	

- (6) Accessories:
- 1 Instruction Manual
- ② X ray leakage Check list
- 3 Safty Operation Manual

5. Guarantee

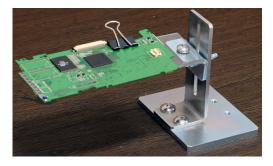
The parts of the system will be guarantee at no charge for one year from the delivery of the system. and or within life limit as following data.

Discription	Туре	Guarantee Term
Main Parts	Dyne	3000 H
X Ray Tube	KINKI GX60 X ray unit	1000 H
X ray CMOS Camera	XP-SZ-DD	1000 H

Guarantee will be except following items:

- 1 By operator error, unjust repair and unjust reconstruction on use.
- 2 By movment, fall and shock after the system setting.
- 3 Any malfunction due to events beyond the control of the manufacturer (e..act of war)

Standard Accessorie:



The tool to rotate

- It is a tool into which an angle is easily adjustable
- If a samll board is installed, an angle is adjustable into freedom 360 dgrees.