



# 美国GEX薄膜剂量测量系统演示

适合于伽玛、电子束和X射线辐照工厂

GEX中国区总代理 尚帕信息科技有限公司(上海)有限公司

[www.sunplume.com](http://www.sunplume.com)

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# Windose剂量测量系统



Genesys20分光光度计及剂量计支架

微型恒温箱热处理系统

计算机、条码阅读器和WINDose for Excel软件

# 整合的、自动化的 WINdose剂量测量系统

WINdose剂量测量系统整合了一台Genesys 20分光光度计及一台标准的、运行微软Windows及MS Excel的PC。预格式化的、可客户定制的剂量测量报告提供了简单、快速的键盘数据输入及自动数据传输以减少或消除数据输入错误：

- B3剂量计条码号输入是通过条码扫描直接输入到剂量测量报告的。
- Genesys20吸光度测量值是通过一个简单的计算机一次击键命令被传输到剂量测量报告的。

# WINdose剂量测量操作理论

- 辐照并热处理经辐照的B3 WINdose或DoseStix剂量计
- 将Genesys20置零、打开一个新的剂量测量报告并填入报告数据
- 打开并扫描第一个剂量计的条码、确认数据传输输入
- 将剂量计放入Genesys20；确认并自动传输吸光度值到剂量测量报告
- 完成所有剂量计的测量并打印最后的剂量测量报告，确认打印的报告
- 打印的报告可以使用和GEX校准报告一起提供的剂量查询表审核确认

将仪器置零



# 打开剂量测量软件

## DOSIMETRY REPORT

**Customer:** GEX Corporation      **Process Number:** 12345  
**Product:** Test DoseStix dosimeters      **Process Specification:** TEST3  
**Lot(s):** 1234567      **Dmin/Ref Ratio:** 0.85      **Dmax/Ref Ratio:** 1.2  
**Quantity:** 100      **Min Dose Spec:** 10      **Max Dose Spec:** 50  
**Process Date:** 9/10/2007      **Max Temp in Process (°C):** na  
**Technician:** Marian Strzelczyk  
**Dosimetry Date:** 9/11/2007      **Min Dose in Process:** 10.1      **Max Dose in Process:** 14.4  
**Instrument:** #1011

**Correction Factor:** 1.00      **Wavelength (nm):** 554      **Average Thickness (t):** 0.017  
**Dosimeter Batch:** B3 batch BB      **Calibration Date:** 10/13/06      **Initial Average Absorbance (Ao):** 0.000  
**Calibration ID:** 2636-BB-ZGEX      **Dose Range:** 0.1 to 100.1 kGy      **Software Version:** 1.4.9

Max Temp	Dosimeter ID	Dosimeter Position	Irradiated Absorbance (Ai)	Response (Ai - Ao) / t	Dose (kGy)	Adjusted Dose (kGy)
	5125905B	Reference #1	0.205	12.059	11.9	11.9
	5134030A	Reference #2	0.206	12.118	12.0	12.0
			0.000	0.000	na	

取出经热处理的剂量计



ax. Dose in Process: 14.4  
Average Thickness (t): 0.017  
Average Absorbance (A<sub>av</sub>): 0.500  
Software Version: 1.4.0  
Adjusted Dose (kGy):  
11.9  
12.0

Handwritten notes on a sticky note:  
4CT 0249  
4CT 0243  
4CT 0245  
4CT 0247  
4CT 0249  
4CT 0251  
4CT 0247



扫描剂量计条码

5377622A

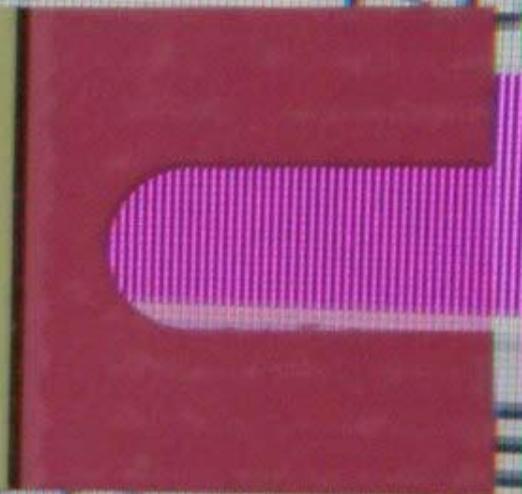
Re

5377622A

Re



BB 5377622A



验证条码号输入

Shapes



插入并读取剂量计



# 观察分光光度计读数



Dosimetry Date: 9/11/2007

Instrument: #1011

Min Dose in Pro

Correction Factor: 1.00

Dosimeter Batch: B3 batch BB

Wavelength (nm): 554

Calibration ID: 2636-BB-ZGEX

Calibration Date: 10/13/

Dose Range: 0.1 to

Dosimeter ID	Dosimeter Position	Irradiated Absorbance ( $A_i$ )	Response $(A_i - A_0) / t$	Dose (
5125905B	Reference #1	0.205	12.059	11.9
5134030A	Reference #2	0.206	12.118	12.0
5377622A	Reference #3	0.465	27.353	33.9
		0.000	0.000	na

DoseReport(B3000) / DoseReport(B3004) / X Uniformity(B3106) / Y Uniformity(B3106)

AutoShapes

start

Phone Manager Lite ...

2636-BB-ZGEX (W4E ...)

WINdose for Excel - ...

验证吸光度值传输

Max Temp	Dosimeter ID	Position	Absorbance (Ai)	(Ai - Ao) / t	Dose (kGy)
	5125905B	Reference #1	0.205	12.059	11.9
	5134030A	Reference #2	0.206	12.118	12.0
	5377622A	Reference #3	0.465	27.353	33.9
			0.000	0.000	na

# 剂量测量报告

GEX Corporation  
7330 S. Alton Way, Suite 121  
Centennial, CO 80112

## DOSIMETRY REPORT

Customer: GEX Corporation  
 Product: Test DoseStix dosimeters  
 Lot(s): 1234567  
 Quantity: 100  
 Process Date: 9/10/2007  
 Technician: Marian Strzelczyk  
 Dosimetry Date: 9/11/2007  
 Instrument: #1011

Process Number: 12345  
 Process Specification: TEST3  
 Dmin/Ref Ratio: 0.85  
 Min Dose Spec: 10  
 Max Temp in Process (°C): na

Dmax/Ref Ratio: 1.2  
 Max Dose Spec: 50

Min Dose in Process: 10.1  
 Max Dose in Process: 40.7

Correction Factor: 1.00  
 Dosimeter Batch: B3 batch BB  
 Calibration ID: 2636-BB-ZGEX

Wavelength (nm): 554  
 Calibration Date: 10/13/06  
 Dose Range: 0.1 to 100.1 kGy

Average Thickness (t): 0.017  
 Initial Average Absorbance (Ao): 0.000  
 Software Version: 1.4.9

Max Temp	Dosimeter ID	Dosimeter Position	Irradiated Absorbance (Ai)	Response (Ai - Ao) / t	Dose (kGy)	Adjusted Dose (kGy)
	5125905B	Reference #1	0.205	12.059	11.9	11.9
	5134030A	Reference #2	0.206	12.118	12.0	12.0
	5377622A	Reference #3	0.465	27.353	33.9	33.9
			0.000	0.000	na	na

Prepared by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_



**Thanks a lot!**

GEX中国区总代理 尚帕信息科技有限公司(上海)有限公司

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