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Mass Production Mode	http://www.aec.com.tw	TEL: 886-2-2218-2325	
Mass Production Mode	統一編號:86981571	FAX: 886-2-2218-2435	

前言:LABTOOL-48UXP燒錄器可以使用大量燒錄模式(Mass Production Mode),來提昇燒錄 生產效率。當進入大量燒錄模式(Mass Production Mode)時,鍵盤和滑鼠的功能將失效, 無須按任何按鍵或移動滑鼠,操作員只需將晶片放入ZIF Socket(Adapoter)內,當LED 亮 綠燈時即可取出已燒錄完成的晶片,並且再放入新的要燒錄晶片,重複此一步驟,即可完 成燒錄。(操作人員無須按任何按鍵或移動滑鼠,一直重覆 取/放 晶片即可)

輔助文件:LabTool-48UXP\_User'sManual(CT)\_2006Q4.pdf → LabTool-48UXP 操作使用手册

操作方法:

1. 直接按 Select 圖示 (鍵盤: ALT + C), 選取正確的 Device。

Change Device		×
MX25L4005		• ок
⊻endor	Device	
	MX25L4005A MX25L4005A*SO(150mil) MX25L4005A*SO(200mil) MX25L4005C MX25L4005C*SO(150mil) MX25L4005C*SO(200mil) MX25L4006E*SO(150mil)	HELP F All F EPROM F PROM F PLD F MPU
Type EPRON	1 Adapter SDP-UNIV-16SO Man. Code 0000h Dev.	Code 0000h

2. 出現訊息對話框,告知此 CHIP 的特性與須知,直接按 確定 即可。

LabTool-48XP/UXP Intelligent Universal Programmer			_ 0
e Project. <u>D</u> evice <u>O</u> ptions Djaghostics <u>H</u> elp			
ave Load Select AutoiD Edit Vector M.P.M Read Blank Prog. Ve	rify Erase Comp.	Prot. Config	Option
Macronix MX25L4006E*SO(150mil)			
LabTool-48XP/UXP		×	
LabTool-48XP/UXP	tact your cupolier if		
LabTool-48XP/UXP This device requires an adapter.Use the correct adapter (cor	tact your supplier if	x) necessary).	
LabTool-48XP/UXP This device requires an adapter.Use the correct adapter (cor	tact your supplier if	x necessary),	
LabTool-48XP/UXP This device requires an adapter.Use the correct adapter (cor	tact your supplier if	necessary).	
LabTool-48XP/UXP This device requires an adapter.Use the correct adapter (cor 確定	tact your supplier if	Necessary).	
LabTool-48XP/UXP	tact your supplier if	×I necessary).	<u>)</u>
LabTool-48XP/UXP	tact your supplier if	× necessary).	
LabTool-48XP/UXP	tact your supplier if Current Cr Target Cr	× necessary).	<u>&gt;</u>
LabTool-48XP/UXP	tact your supplier if Current Cr Target Cr Current Fai	x necessary). Dount : 0 Dount : 100 lure : 0	<u>×</u>
LabTool-48XP/UXP This device requires an adapter.Use the correct adapter (cor EEE Device : Macronix MX25L4006E*S0(150mil) Adapter : SDP-UNIV-16S0 Pin : 8 Size : 80000hX8 VCC : 3.10V Manu. Code : 0000h Check Sum : 00072EAAh VPP : None Device Code : 0000h	tact your supplier if Current C Current Fai Max Fai	value in the second sec	
LabTool-48XP/UXP	tact your supplier if Current C Current Fai Max Fai OnOff	×I necessary). pount : 0 pount : 100 lure : 0 lure : 5 ∫ Reset	<u>•</u>

3. 直接按 Option 圖示 (鍵盤:F4),設定燒錄執行選項。

LabTool-48XP/UXP In	itelligent Universal Programme	54		_ 🗆 🗙
Elle Project Device Op	tions Diagnostics Help			
Save Load Select /		101010 Head Blank Prog. Verify Er	ase Comp. Prot.	Config Option
>>Macronix MX:D	evice Operation Option		×	E
1	Page 1			
	-Number Settings	N		/-
	Start Address	End Address 7FFFF		
	Buffer Size 80000	AutoInc.Start 7FFFF		
	Autoinc.End /PPP8	AutoInc.Value		
	Options	Real Chark		1
	Program	Verify Passes		1
	MemProt/ProgCfig	Auto-Increment		
	- Verify option	AutoInc data format		/
	C 1.Twice VCC +/- 5%	I.Binary		/
	C 2.Twice VCC +/- 10%	C 2.ASCII Hex. C 3.ASCII Decimal		
		C 4.Modulo-26		ľ
Device : Ma		-). K	Count 0	
Adapter : SD			Count : 1	00
Check Sum : 000			ailure : 5	
File : No				
1	確定日	▼消 【 査用(A) 【 靴		ing
For Help, press F1			Count	0003130 📑 🖬 🎵

 若於剛 Device Operation Option 內,有勾選 MenProt/ProgCfig,代表要執行 Memory Protect,此時則需點選 Config 圖示(鍵盤:ALT + G),做 Configuration 設定,其設定請參 考該 Chip 的 Datasheet。

LabTool-48XP/UXP Intel	ligent Universal Programmer s Diagnostics <u>H</u> elp		
Save Load Select Auto		ad Blank Prog. Verify Erase	Comp. Prot. Config Option
>>Macronix MX251	onfiguration		× -
	Page 1		
	Lock Bits Program C No Lock Bits C Upper eighth(1/8) C Upper half(1/2) C Protect All	Status Register SR WD = 0 C SR WD = 1	
I			×
Device : Macro Adapter : SDP-U Size : 80000 Check Sum : 00072			int 0 int 100 ire : 0 ire : 5
File : No File Note : This d			Reset Config
For Help, press F1		取消	明

5. Load 要燒錄的資料檔案到 buffer,選取確定檔案,直接按 開啓。

ave Load <u>:</u> Macronix	Select AutoD E	*SO(150mil	P.M Read B	lank Prog.	Verify Erase	Comp.	Prot. Conho	Uption
1								
1	見習	😂 т						
1		- Iemp				:::: <b>*</b>		
1	TEST BON	ar						
1	TEST_64M.I	rar						
1	TEST_64M.1	ar						
	TEST_64M.I	'ar						
	TEST_64M.I	TEST 1GN rar			開	啓(0)		
	TEST_64M.1 檔案名稱(10): 檔案類型(1):	TEST_1GN rar All Files (*.*)			」 目 目 目	<u>啓(0)</u>		•
Device *	TEST_64M.I 檔案名稱(1): 檔案類型(1):	TEST_1GN rar All Files (*.*)	150mil)	<u>×</u>	開 日 日 日 日 日 日 日	啓② 友消	unt : 0	·
Device : Adapter :	TEST_64M.I 檔案名稱(型): 檔案類型(I): Macronix MX2 SDP-UNIV-16S	TEST_1GN rar All Files (*.*) 5L4006E*SO( 0	150mil)	<u>•</u> Pin:8	開 」 」 てur Ta	啓② 文消 rent Cou rget Cou	unt : 0 unt : 100	
Device : Adapter : Size : check Sum :	<ul> <li>TEST_64M.I</li> <li>檔案有種①:</li> <li>檔案類型(I):</li> <li>Macroni× MX2</li> <li>SDP-UNIV-16S</li> <li>80000hX8</li> <li>0420F284b</li> </ul>	TEST_1GN rer All Files (*.*) 5L4006E*SO 0 VCC : 3.10V VPP : None	(150mil) Manu. C Device C	▼ Pin : 8 ode : 00000	Cur Ta	啓②	int : 0 int : 100 ire : 0 ire : 5	
Device : Adapter : Size : Check Sum :	TEST_64M.I 檔案名稱(型): 檔案類型(I): Macronix MX2 SDP-UNIV-163 80000hX8 0420F284h	TEST_1GN rar All Files (*.*) <b>5L4006E*SO</b> O VCC : 3,10V VPP : None	( <mark>150mil)</mark> Manu. C Device C	▼ Pin : 8 ode : 00001 ode : 00001	Curr Ta Curr M	啓②	Int : 0 Int : 100 Ire : 0 Ire : 5	• • •

Image: Section of the sect of the section of the sect of the sect of the sect of the sect of the section of the sect of the section of the sect of the sect of the section of th	Ele Project Device	XP Intelligent Universal Progra Options Diagnostics Help	inmer		<u>_</u> _×
>Macronix MX25L4006E*S0(150mil)         Load A File To Buffer         File Name         G:\!Chiawei\Temp\TEST_1GN.rar         Auto Format Detected         Einary         0         From File         Io Buffer         Binary         0         Cancel         From File         Io Buffer         Buffer         Buffer         Buffer         Buffer         Buffer Before Loading the file         Clear Buffer with blank state         Clear buffer with veros (0x00)         Clear buffer with ones (0xFF)         Size :         Check Sum : Courzezaan vere : none Device coue : oooon         File : No File         Note : This device requires an adopter.         Alarm         Count D003120	Save Load Set	ect AutoID Edit Vector M.	A 101010 P.M Read Blank Prog. Verify	Erase Comp.	Prot. Config Option
Image: Const Doto 120	>>Macronix M	x25L4006E*SO(150mil	)		·
File Name   G:\lChiawei\Temp\TEST_1GN.rar   Auto Format Detected   Erom File   To Buffer   Clear buffer with blank state   Clear buffer with ones (0xFF)   Size :   Check Sum :   For Help.   Note :   This device requires an adepter. <b>For Help. press F1</b>		Load A File To Buffer			×
G: \IChiawei\Temp\TEST_1GN.rar Auto Format Detected Erom File Address Binary 0 Cancel From File To Buffer Address Normal 0 Help To Buffer Buffer Size Normal 90000 Clear Buffer Before Loading the file Clear Buffer with blank state Clear buffer with blank state Clear buffer with ceros (0x00) Clear buffer with ones (0xFF) Size :: Check Sum : Courzeman VFF. None Device Coure : 000001 Max ranue : 5 File : No File Note : This device requires an adapter. For Help. press F1		File Name			
Auto Format Detected From File Address   Binary 0   From File To Buffer Address   Normal 0   Help To Buffer   Buffer Buffer Size   Normal 90000   Clear Buffer Before Loading the file Clear buffer with blank state   Clear buffer with blank state Clear buffer with zeros (0x00)   Clear buffer with ones (0xFF) 0   Size :: Clear buffer with ones (0xFF)   File : No File OnOff   Note : This device requires an adopter.		G:\!Chiawei\Temp\TEST	_1GN.rar	ОК	
Binary       0       Cancel         From File       To Buffer Address         Normal       0         To Buffer       Buffer Size         Normal       80000         Clear Buffer Before Loading the file       Clear buffer with blank state         Clear buffer with blank state       0         Clear buffer with ceros (0x00)       0         Clear buffer with ones (0xFF)       0         Size ::       Clear buffer with ones (0xFF)         File : No File       OnOff         Note : This device requires an adopter.       OnOff         For Help. press F1       Court Introstation Court		<u>A</u> uto Format Detected	Erom File Address		
From File       To Buffer       Address         Normal       0       Help         To Buffer       Buffer Size         Normal       980000         Clear Buffer Before Loading the file       Clear buffer with blank state         Clear buffer with zeros (0x00)       0         Clear buffer with ones (0xFF)       00         Size :       0         File : No File       OnOff         Note : This device requires an adapter.       OnOff         For Help. press F1       Court Introstan		Binary 🔽	0	Cancel	
Normal       Image: Operation of the sect of the s		F <u>r</u> om File	<u>T</u> o Buffer Address		
To Buffer       Buffer Size         Normal       80000         Clear Buffer Before Loading the file       Clear Buffer Before Loading the file         Device:       Clear buffer with blank state         Clear buffer with zeros (0x00)       0         Clear buffer with ones (0xFF)       00         Size:       Clear buffer with ones (0xFF)         File:       No File         Note:       This device requires an adapter.         For Help. press F1       Court 10003120		Normal	0	Help	
Normal       Image: Boother State         Clear Buffer Before Loading the file       Clear Buffer Before Loading the file         Device:       Clear buffer with blank state         Clear buffer with blank state       0         Clear buffer with ceros (0x00)       0         Clear buffer with ones (0xFF)       0         Size:       100         Check Sum:       Device:         File:       No File         Note:       This device requires an adopter.         For Help. press F1       Court Introlation Court		To B <u>u</u> ffer	<u>B</u> uffer Size		
Clear Buffer Before Loading the file C Disable C Clear buffer with blank state C Clear buffer with zeros (0x00) C Clear buffer with ones (0xFF) Size : Check Sum : GOOTZEAAIN VPP. None Device Code : GOODON Max Failure : 5 File : No File Note : This device requires an adopter. For Help, press F1 Count Integration Coun		Normal	80000		
C Disable     Clear buffer with blank state     C Clear buffer with zeros (0x00)     C Clear buffer with ones (0xFF)     Size : E     Check Sum : Courz ZEAAN VPP. None Device code : 00001     Max ranore : 5     File : No File     Note : This device requires an adapter     For Help, press F1     Court 10003120		Clear Buffer Before Loa	ding the file		
Pevice : No       Clear buffer with blank state         Device : No       Clear buffer with zeros (0x00)         Adapter : Size : E       Clear buffer with ones (0xFF)         Check Sum : Courz EAAn       VPP : None         File : No File       OnOff         Note : This device requires an adapter.       OnOff         For Help, press F1       Court [0003120]	•	C Disable	14		
Device : h       C Clear buffer with ones (0xUU)       0         Adapter : S       C Clear buffer with ones (0xFF)       0         Size : E       0       0         Check Sum : GOUTZEAAN       VPP : None       Device coue : 000001         File : No File       OnOff       Reset         Note : This device requires an adapter       Alarm       Config		Clear buffer with bla	ink state		
Adapter : §       C Clear buffer with ones (0xFF)         Size : §       100         Check Sum : Guorzzzani VPF : None Device coue : 000001       Max ranure : 5         File : No File       OnOff Reset         Note : This device requires an adapter.       Alarm Config	Device : N	C Clear buffer with zer	ros (UXUU)		0
Check Sum : 00072EAAn     VPP. None     Device code : 000001     Max randre	Adapter : Size : E		es (uxrr)		0
File : No File     OnOff     Reset       Note : This device requires an adapter.     Alarm     Config	Check Sum : (r	UUTZEAAN VPP. NUNE	DEVICE COUE . 000001	Max ranu	<del>re .</del> 5
For Help, press F1	File : N	lo File		OnOff	Reset
For Help, press F1	Note : T	his device requires an ada	pter.	Alarm	Config
	For Help, press E1				Count 0003130 🖽 🗸 🖉

跳出 Load A File To Buffer 視窗,確認格式,按 OK 確認。

完成 Load File to Buffer,直接按確定。

LabTool-48XP/UXP Intelligent Universal Programmer File Project Device Options Diagnostics Help			=D×
Save Load Select AutolD Edit Vector M.P.M Read Blank Prog. Veria	y Erase Comp.	Prot. Config	Option
Macronix MX25L4006E*SO(150mil)			
>>Reading file : G:\!Chiawei\Temp\TEST_1GN.rar	2		
LabTool-48XP/UXP (1) Read completed,524288 (80000) bytes 一 確定	x read !		
x			•
Device : Macronix MX25L4006E*S0(150mil)           Adapter : SDP-UNIV-16S0         Pin : 8           Size : 80000hX8         VCC : 3.10V         Manu. Code : 0000h           Check Sum : 00072EAAh         VPP : None         Device Code : 0000h	Current Co Target Co Current Fail Max Fail	unt:0 unt:100 ure:0 ure:5	*
	1		
File : No File	OnOff	Reset	1
File : No File Note : This device requires an adapter.	OnOff Alarm	Reset Config	 

6. 執行 Mass Production Mode,按 M.P.M 圖示

TabTool-48XP/UXP Intelligent Universal Programmer	
<u>File Project Device Options Diagnostics Help</u>	
Save Load Select AutolD Edit Vector Read Blank Prog. Verify	y Erase Comp. Prot. Config Option
Macronix MX25L4006E*SO(150mil)	
Reading file : G:\!Chiawei\Temp\TEST_1GN.rar	
>>Read file complete !	
	-
	E E
Device : Macronix MX25L4006E*SO(150mil)	Current Count : 0
Adapter: SDP-UNIV-16SO Pin: 8	Target Count : 100
Check Sum : 0420F284h VPP : None Device Code : 0000h	Max Failure : 5
File : G:\!Chiawei\Temp\TEST_1GN.rar	OnOff Reset
Note : This device requires an adapter.	Alarm Config
For Help, press F1	Count  0003130 🖵 📶 🥢

出現告知進入 Mass Production Mode,直接按 確定。

LabTool-	48XP/UXP
?	< <mass mode="" production="">&gt; is a special operation mode. Please refer to On-Line help for detail before operation ! Are you going to enter &lt;<mass mode="" production="">&gt; ?</mass></mass>
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

## 跳出訊息,直接按 確定。



LabTool-48XP/UXP Intel	ligent Universal Programmer 15 Diagnostics <u>H</u> elp		_O×
Save Load Select A	evice Operation Option Page 1 Number Settings Start Address Buffer Size AutoInc.End 7FFF8	End Address 7FFFF AutoInc Start 7FFFF AutoInc.Value 1	Config Option
	Options     ✓ Insertion Test     ✓ Program     MemProt/ProgCfig     Auto Erase/Over Write      Verify option     C 1.Twice VCC +/- 5%     C 2.Twice VCC +/- 10%	Blank Check     Verify Passes     Auto-Increment      Autoline data format     1.Binary     C 2.9 & SCUL Hay	
Device : Macro	© 30nce	C 3.ASCII Decimal C 4.Modulo-26	×
Adapter : SDP-U Size : 80000 Check Sum : 0420F File : G:\!Ch Note : This c	確定取	注 清 <u> </u>	unt : 100 ure : 0 ure : 5 Reset Config
For Help, press F1			Count 0003130

## 跳出 Device Operation Option 視窗,確認其內容,按確定。

跳出 Configuration 視窗,確認其內容,按 確定。

SabTool-48XP/UXP Inte	lligent Universal Programme	ex(		_02
File Project Device Option	ns Diagnostics <u>H</u> elp			
Save Load Select A	onfiguration Page 1		×	Prot.
>>Macronix MX251	Lock Bits Program No Lock Bits C Upper eighth(1/8) C Upper quarter(1/4) C Upper half(1/2) C Protect All	Status Register SRWD = 0 SRWD = 1		
Device : Macro Adapter : SDP-L Size : 80000 Check Sum : 0420F File : G:!!Ch Note : This.d		<b>取消</b> (雪用企)	ショー 説明 HIATIII	unt : 0 unt : 100 ure : 0 ure : 5 Reset Config
For Help, press E1				Coupt 0003130

LabTool-48XP/UXP Intelligent Universal Programmer Elle Project <u>D</u> evice Options Djagnostics <u>H</u> elp	
Save Load Select AutolD Edit Vector M.P.M Read Blank Prog. Verify	Erase Comp. Prot. Config Option
>>Macronix MX25L4006E*SO(150mil)	
Statistic Configuration	×
Active Count Alarm Alarm Alarm Active Mass Production Program Verify Current Counter Current Count 0 Target Count 100 Current Failure Max. Failure	Mank Check Frase Aemory Protect
Device         OK           Adapter : SDP-UNIV-16SO         Pin : 8           Size : 80000hX8         VCC : 3.10V         Manu. Code : 0000h           Check Sum : 0420F284h         VPP : None         Device Code : 0000h	Target Count : 100 Current Failure : 0 Max Failure : 5
File : G:\!Chiawei\Temp\TEST_1GN.rar Note : This device requires an adapter.	OnOff Reset Alarm Config
l For Help, press F1	Count 0003130 🚮

跳出 Statistic Configuration 視窗,確認其內容,按 OK。

跳出 Mass Production Mode 視窗,開始燒錄,操作人員只須一直重覆 取/放 晶片即可。

Project Device Opt	ions Diagnostics Help	annner		
ave Load Select A	utolD Edit Vector M.F	P.M Read Blank Prog	y. Verify Erase Comp.	Prot. Config Optic
Macronix Myor	S Production Mode			
Enter Mass	STICAL	_		
	-	,		
	Please insert a ne	w device on socket		
	48		25	
	and the second			
	01		24	
	01		24	
	01	Stop Point	24 Current	
	01	Stop Point None	24 Current	
	01 Item Total Count Failure	Stop Point None None	Current	
	01 Item Total Count Failure	Stop Point None None	Current	
	01 Item Total Count Failure No device on sock Automatic increme	Stop Point None None None ket I	Current	
Device : M Adapter : SI	01 Item Total Count Failure No device on sock Automatic increme	Stop Point None None ket 1 ent disabled	Current	0
Device : M Adapter : SI Size : 8(	01 Item Total Count Failure No device on sock Automatic increme	Stop Point None None ket ! ent disabled	Current 0 0	0 100 0
Device : M Adapter : SI Size : 80 Check Sum : 04	01 Item Total Count Failure No device on sock Automatic increme Ignore	Stop Point None None ket ! ent disabled	Current 0 0 0 5top	
Device : M Adapter : SI Size : 8( Check Sum : 04 File : G:WCh	01 Item Total Count Failure No device on sock Automatic increme Ignore	Stop Point None None ket ! ent disabled N.rar	24 Current 0 0 Stop	0 100 0 5 5 Reset

- LabTool-48XP/UXP Intelligent Universal Programmer - O × Project Device Options Help 101010 1 M.P.M Bo Option AutoID 10 Save Edit Macronix MY Mass Production Mode . >>Enter Mass Please insert a new device on socket ! 25 48 ...... 01 24 Item Stop Point Current Total Count None 0 0 Failure None Þ 4 No device on socket ! Automatic increment disabled Device : M 0 Adapter : SI 100 Size : 80 0 Stop Ignore Check Sum: 04 5 OnOff Reset File : G:\!Chiawei\Temp\TEST\_1GN.rar Note : Alarm Config Count 0003130 57 3 // For Help, press F1 WLabTool-48XP/UXP Intelligent Universal Programme - 🗆 🗙 File Project Device Options Diagnostics Help Save Read Blank Bo Option Load M.P.M 5 Config + AutoID Edit Macronix MX25L4006E\*SO(150mil) -Enter Mass Production Mode... User break >>End of Mass Production Mode ! 4 F Device : Macronix MX25L4006E\*SO(150mil) **Current Count : 0** Adapter : SDP-UNIV-16SO Pin:8 Target Count : 100 Size : 80000hX8 VCC: 3.10V Manu. Code : 0000h Current Failure : 0 Check Sum: 0420F284h VPP:None Device Code: 0000h Max Failure :5 OnOff Reset File : G:\!Chiawei\Temp\TEST\_1GN.rar Note : Alarm Config Count 0003130 5 For Help, press F1
- 7. 若要離開 Mass Production Mode,只需按 Stop 既可。