

FCO	Field Change Order Proprietary and Confidential			Product M22
FCO No. FCR000059	Issue Date 30-Nov-2011	Rev. A	Rev. Date 30-Nov-2011	Technical Audit: Nir Pialkov
<b>Page</b> 1 of 22	FCO Title M22 Software Upgrade from V1.5 to V 2.0			

# Purpose

The purpose of this document is to describe the procedure for **upgrading** the M22 system software from V1.5 to the new revision SW V2.0.

# **Background**

We produced the new software that will improve the functionality and serviceability of M22 systems. The Upgrade is for systems series 003 only.

All new M22 systems coming out from production having series number **004** will have the new hardware and software already installed.

**NOTE**: The New GUI software is Version 2.0. The new Controller software is Version 2.0.



# SW Rev 2.0 New Features and Functions:

**1. Water level sensor is replaced with a pressure sensor** - avoids long process of level sensor calibration, saving service time and effort and avoids level sensor calibration intermittent E232 issues in the field. The pressure sensor does not require the use of the water level sensor jig calibration tool P/N TA-1056020, therefore reducing special tools needed for service.

**2. Disabled USB 2.0 BIOS configuration** - avoids the loss of communication with the PC issue which caused frozen screen and forcing the customer to turn off the system.

**3. Eliminated reading module's micro-switch** – the purpose of this switch was to indicate if the PC module is properly connected to the base module. The change will avoid false E238 errors. When having a real issue, PC module is not in the correct position, resulting in no power to the PC module, and therefore the PC unit can't turn on, indicating that the PC needs to be closed properly.

**4. Thermal Flag in the service diagnostic Cooling Screen** - the new revision will display the correct value: **OK** is indicated as Green. **Not OK** is indicated as Red. The indication is for service engineer only and was not activated by previous SW versions.

**5. Enabling the IPL calibration device** – the new software version supports the use of a calibration device for the IPL treatment head, which may be connected to the system, in the same connector location as the Nd:YAG calibration tool. There is no change in the calibration requirement timing. The IPL Calibration Device is not included in this FCO.

6. Addition of Portuguese language to GUI – set the preferred language in the User Preferences | Language Preference screens. On each of the Language Preference screens, the Defaults button will remain in English and when pressed, will change each language back to English. More information regarding language preferences is found in Appendix C of this document.

**7.** System notifies the user with on-screen message when IPL LG temperature exceeds the maximum limit. The following message is displayed: *"Tip temperature is above 50°C/122°F Please wait several minutes for the tip to cool"*. User has the option to press **OK**, or **Ignore** after the message is displayed.

**8. Reading HP type in service screen.** This was added because the system was not identifying the replacement of the handpiece in certain situations, causing incorrect handpiece readings and supplying incorrect TEC voltage values in service mode only. See Appendix B of this document.

#### 9. Add Nd:YAG Lumenis presets for 2X4 mm spot size:

A new Treatment area" section was added to the Nd:Yag-VL Lumenis presets screen, including the options "Large" and "Small". The User selects the "Large" option to receive the presets for 6 mm spot size, and the "small" option to receive 2x4 mm presets.



## **Introduction**

Below are the main steps for performing the Upgrade to software Rev. 2.0 (P/N FCR000059):

- 1. Upgrade the system with new upgrade software (P/N SW-1091271)
- 2. Install the new controller software V 2.0

<u>Note</u>! Before upgrading the system software, perform system backup user presets according to Appendix A of this document.

## **Required Tools**

- PC
- USB "Disk-on-Key" (local purchase)
- USB keyboard (local purchase)

## **Estimated Implementation Time:**

• 1 hour

The M22 upgrade can be ordered via the usual channels using P/N FCR000059. The upgrade contains:

P/N	FCR000059	M22 1.5 to 2.0 Up	grade
#	Description	Part Number	QTY
1	FCR Instructions	PBFC00059	1
2	M22 Software Upgrade to 2.0	SW-1091271	1
3	System DSP SW Version 2.0	SP-1047552	1



# PROCEDURE

## 1. Upgrading the System for GUI SW 2.0 Revision

### **Required Tools**

- USB "Disk-on-Key"
- PC

### **GUI and Operating System Software Installation**

The GUI and Operating System software are located on the Compact Flash (CF) memory attached to the industrial computer module. Software upgrade installation is performed when updating the software with a newer version. The software is shipped to the FSE on a DVD CD-ROM, which should be copied to a USB "Disk-on-Key".

1. Turn on the system; the *Login* screen appears (see Figure 1).

	Login	
	Enter your password:	
	Password: Area	Cancel
	1 2 3	
	4 5 6	
	7 8 9	
	0	
C		
	Figure 1	

2. Login as Service; (1111); the *Select Mode* screen appears (see Figure 2).



Figure 2



3. Take the USB Disk-On-Key with the software to be installed and insert it into its connection port at the back of the system (see Figure 3).



Figure 3 USB Port

4. Press **Utility**; the *Utility* screen appears (see Figure 4).





5. In the Utility screen, press Update Machine; the Updates screen appears (see Figure 5).







6. In the Update screen, select **Software Update**; the *Software Upgraded* screen appears and start automatically to upgrade the system with the new software 2.0 Revision (see Figure 6).



Figure 6

### Note! Please wait until the software process bar is completed.

- 7. When software installation is complete, the Software Upgraded Screen disappears and system Desktop Screen appears, indicating that the software Upgrade is complete. No *"Successful Installation"* message appears.
- 8. Disconnect the USB Disk-On-Key.
- 9. Turn off the system and then back on again. Verify in the *Select Mode* screen that the new software revision was installed: Rev. 2.0.0.5 (see Figure 7).

ma	2	5	0
Select mod			
Menu			
<u>/</u>			
	IPL		
	Version:	2.0.0.5	
		50	
User	hnician Version: 2.0.0.5		2

Figure 7



# 2. System Flash DSP Installation Ver. 2.0

The DSP software is shipped on CD media. Installing the software requires having the software available on a USB "Disk-on-Key" device. Lumenis will deliver the software CD to the FSE, and the FSE should copy the software to the disk-on-key device.

CE_FLASH_R5232.dll	F2808SerialFlash.out	F2812SerialFlash.out	FlashWriter
1.0.1.3	OUT File	OUT File	FlashWriter MFC Application
CE_FLASH_R5232 DLL	129 KB	149 KB	Lumenis Ltd.
SignumConnect Text Document	windows NT Command Script 1 KB	MRIPL.out OUT File 1,310 KB	MRIPL.map MAP File 148 KB

Figure 8: DSP Software Files 2.0

### Note This software installation does not require the removal of any system covers.

The software resides in the flash-memory card on the upper side of the controller board located on the back side of the system, inside the interface module (see Figure 9):



Figure 9: Flash-DSP and FPGA SW on Controller Board



#### **Installation Procedure**

1. Press the **Start** button on the system's console; the system starts its initialization process, until the *Login* screen appears (see Figure 10).

	Login	
	Enter your password:	
	Password:	OK Cancel
	1 2 3	
	4 5 6	
	7 8 9	
	0	
C		

Figure 10: Login Screen

2. In the *Login* screen, type the password **1111** by touching the numbered buttons on the screen and then touch **OK**; the *Select Mode* screen appears (see Figure 11).



Figure 11: Select Mode Screen



3. In the Select Mode screen, press the icon in the upper right-hand corner of the screen; the *Shut Down* screen appears (see Figure 12).



Figure 12: Shut Down Screen

4. Press Shut Down. The M22 Desktop screen appears (see Figure 13).



Figure 13: M22 Desktop Screen



5. Take the USB with all the software files to be installed and insert it into its connection port at the back of the system (see Figure 14).



Figure 14: USB Port

6. In the Desktop screen, press the **My Device** icon (see Figure 15).



Figure 15: My Device Icon

7. Verify that the USB Disk icon appears on the screen, and double-touch the USB Disk icon (see Figure 16).



0	•		2		0	10		0	P
Data	Disk	My Documents	Network	Program Files	Temp	USEDisk	WINCESO	Windows	Control. Panel
						V			

Figure 16: USBDisk Icon

8. Double-touch the FlashWriter icon to open it (see Figure 17).



9. The FlashWriter Screen appears (see Figure 18).

FlashWriter(V2.1.2)	ок
Com Port	Target
О COM 1	Main (2812)
COM 2	🔿 Scanner (2808) 🔲 Full erase
О сом з О Other ->	Delay factor 3
<u>ر</u>	→ ✓ Start EXIT

Figure 18: FlashWriter Screen

10. Make sure that COM2 and Main, Erase, Program, and Verify checkboxes are selected.



11. Press the

**Browse** button and browse to open the *My Device* folder (see Figure 19).

FlashWriter(V2.1.2)	ок
Com Port	Target
O COM 1	🖲 Main (2812)
● COM 2	🔿 Scanner (2808) 🔲 Full erase
Ocen 🗈 💣 🏢	ок 🗙
Application Data     Prograt     Disk     Disk     Disk     Disk     Windo     Ny Documents     Network     Windo	h Files
Name: Mame: D	SP Files (*.out)

Figure 19: My Device Folder

12. Double-touch to select **USBDisk\MRIPL.OUT** file (see Figure 20).

FlashWriter(V2.1.2)	ок
Com Port	Target
O COM 1	Main (2812)
© COM 2	🔿 Scanner (2808) 🔲 Full erase
🔿 🗘 Open 🗈 💣 🧱 🏢	ок ×
Solution (Section 1) (Section	SP Files (*.out)
•	
USBDIsk/MRIPL.OUT	Start EXIT

Figure 20: Select USBDisk\MRIPL.OUT File



13. Press **Start**. The progress bar runs, executing the Initializing Connection, Erasing Flash, and Programming Flash tasks. This may take several minutes to complete (see Figure 21).

FlashWriter(V2.1.2)	ок
Com Port	Target
O COM 1	Main (2812)
● COM 2	🔿 Scanner (2808) 🔲 Full erase
О сом з	Delay factor
O Other -> 2	
	Verity
	Initializing connection
SusiIOWrite ok SusiIOWrite ok	<b>_</b>
SusiIOWrite ok SusiIOWrite ok	
Opened serial port COM2: at 19200 baudrate suc	cessfully
Loading \USBDisk\F2812SerialFlash.out	
Entry point 0x003f8000	
	Start EXIT

Figure 21: Flash Burning Progress Bar

14. When the flash installation is complete, a "Verification Successful" message appears (see Figure 22), and a beep is heard.

FlashWriter(V2.1.2)	ок
Com Port	Target
О COM 1	Main (2812)
COM 2	🔿 Scanner (2808) 🔲 Full erase
О сом з	Dolau factor
O Other -> 2	
	Erase Verify
	Verification Successfull!
SusiIOWrite ok SusiIOWrite ok	<b>_</b>
SusiIOWrite ok	
SusilOWrite ok SusilOWrite ok	
SusiIOWrite ok SusiIOWrite ok	
SusiOWrite ok	
4	<b>&gt;</b>
	Start EXIT

Figure 22: Verification Successful

15. Disconnect the USB, and press **Exit** to return to the *My Device* screen.



# Post Upgrade Procedures

After completing the software procedures, verify that the controller revision is 2.0.0.3 and the GUI software is 2.0.0.5.

- 1. Turn on the system and go to the Service screen.
- 2. Verify that the controller software and the system serial number is correct (see Figure 23).

/ Software information	Cooling System
Service Version: 2.0.0.2	Charger
Controller 2.0.0.3. Version:	Head
Machine Information	Switching
Machine SN: 002-108	External Indicators
Manufacture date (nm/dd/yy) 5 / 3 / 11	Calibration Device
Installation date (mm/dd)yy) 5 / 5 / 11	End User Screen
Machine total working hours [197.717	Diagnostic
READ DEFAULT WRITE	FPGA Diagnostic
	Head Data
F	Exit

Figure 23

# **GUI Verification**

- 1. Turn off the system and turn it back on.
- 2. Verify that the Select Mode screen identifies the connected handpiece and the version displayed is V2.0.0.5 (see Figure 24).



Figure 24



# **Final Calibration and Testing**

<u>NOTE</u>: Before performing calibration, verify that the GAIN = 1, OFFSET=0 for each calibration screen.

- 1. Perform system voltages and temperatures calibration (Use M22 service Manual and TN-1069540 for performing Setting up and performing the System Calibration).
- 2. Run the System Diagnostic screen and verify that there are no errors.
- 3. Perform Energy Calibration and Test; (use M22 service Manual for performing Universal Head IPL and Nd:YAG calibration).



# Appendix A: System Preset Backup

Use this utility to perform routine backups of the Lumenis and proprietary presets that can be exported to removable storage devices.

It is important to backup the presets periodically. If it ever occurs that the presets database becomes corrupted for any reason, restoring it from the backed-up USB flash drive (disk-on-key) will be quick and easy.

Do the following:

1. Insert a blank USB flash drive into the USB receptacle on the system's rear panel (Figure 1).





2. From the Utility screen, press the **Backup** button and follow the on-screen instructions.



Figure 2

3. To restore from the flash drive, press the **Restore** button and follow the on-screen instructions.



# Appendix B: M22 New Screens

### Main Service Screen

The Main service screen includes the following:

- Software revision information:
   Service revision 2.0.0.2
  - Controller version 2.0.0.3
- Controller CRC:44183
- Expected CRC value: 44183

If the software was not correctly burned, the expected CRC value will not be equal to the Controller CRC value. In this case, burn the required software revision.

Software information	Cooling System
Service Version: 2.0.0.2	Charger
Controller 2.0.0.3. Version:	Head
Machine information	Switching
Machine SN: 002-108	External Indicators
Manufacture date (mm/dd/yy) 5 / 3 / 11	Calibration Device
Installation date (mm/dd/yy) 5 / 3 / 11	End User Screen
Machine total working hours 197.717	Diagnostic
Controller CRC: 44183 expected 44183 READ DEFAULT WRITE	FPGA Diagnostic
	Head Data
	 Exit
	 0

-

## Charger Screen

A stable auxiliary 24 VAC can be activated via the Charger screen. This auxiliary voltage is required for activating future system modules.

The 2 auxiliary settings are:

- OFF- working with Modules that need the capacitor bank (IPL ND YAG)
- ON enables output of 24VAC to the 52-pin connector to allow connecting optional Module. The module will be assembled between the base and the PC unit. In this setting, the capacitors voltage value displayed on the screen is not taken into account.

	Power supply Version:	2. 0. 0. 0	Cooling System
5 14	/olt Input Value:	12 Volt Input Value:	Charger
Rar	nge:0.00 - 5.00 4.987	Range:0.00 - 12.0 12.70	Head
1.0	и кв о кв	1.03 KB 0 KB	Switching
	Save Calibration	Save Calibration	External Indicators
			Calibration Device
Capacitors are fully Dumped			End User Screen
• •			Diagnostic
			FPGA Diagnostic
Charge / Dump		Cap.Voltage Value: Range:0.00 - 12.0 5.55	Head Data
		Gain KB Offset KB	
Set Auxiliary power		1.03 5.55 NB	
ON OFF		Save Calibration	
			Exit
			•



## Head Screen

When the Head screen is selected, the system first reads the connected handpiece to identify which handpiece is being used. This is done in order to prevent the supply of incorrect voltage and to prevent burning incorrect parameters.

- After selecting the Head screen, the message "Please wait, reading head data" appears.
- When reading the handpiece is completed, the Head ID, Head Parameters and type is displayed.





### End User Screen

When the End User screen is selected, the system first reads the connected handpiece to identify which handpiece is being used. This is done in order to prevent the supply of incorrect voltage and to prevent burning incorrect parameters.

- 1. After selecting the End User screen, a series of dots will appear in the Head Type field box.
- 2. When reading the handpiece is completed, the Head Type and Filter Tip ID is displayed.

HEAD TYPE	ooving oystem
	Charger
	Head
	Switching
	External Indicators
	Calibration Device
	End User Screen
	Diagnostic
	FPGA Diagnostic
	Head Data
	Exit
	<b>•</b>
Pulse Parameters	Cooling System
HEAD TYPE IPL Filter/Tip ID 315 Tim	Charger
Single Double Triple Turn TEC	Head
IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Switching
Define	External Indicators
TI	Calibration Device
	End User Screen
Current Value:	Diagnostic
Range:0.00 - 660. 1 KB	FPGA Diagnostic
	Head Data
Save	
System On System Off Calibrate IPL Head StandBy Ready	
	Exit
A .	
E	
, .	•

Cooling Cost



## Head Data Screen

After selecting the Head Data screen, press Search to scan all ID values. The software locates all the ID devices and displays all the IDs in the drop-down box. The FSE/CE can then select the ID device; the software will display all the relevant parameters for that device.

ID: Search			Cooling System
Type Serial Number:			Charger
Manufacture date(mm dd yy) 9 / 22 / 11	-		Head
Version 1 Installation Date: 9 / 22 / 11 Machine SN: installed			Switching
Version: 1 warrenty Shots: 30000 Life expend, shots 100000		E	External Indicators
Warrenty expiered 9 / 22 / 12 Days in warrenty 365			Calibration Device
Calbration Version: 1 Calb date: 9 / 22 / 111 Calb pulsess: 0			End User Screen
Factor1: j1 Factor2: j0 Factor3: j0 Factor4: j0			Diagnostic
Dynamic dats Version: 1 Total Shots: 0 Total Energy: 0			FPGA Diagnostic
Shots from Last 0 Energy from calibration: 0			Head Data
Version: 0 RF counter 0 Counter2 0			
Counter3 0 TotalTime 0	1		
version ju			
Catalog		- F	<b>5</b> -1
Catalog			EXIT
Catalog			EXR
Catalog			
Catalog			EXIT
Catalog ID: A37EF103000010CA V Search			Exit
Catalog ID: AS7EF103000010CA Search General-AS7EF103000010CA Type IPL Head I280 Serial Number: 2		× T	Cooling System Charger
Catalog       ID:     A97EF103000010CA       rGeneral     A37EF103000010CA       Type     IPL Head       Y     IPL Head	] ए	T	Cooling System Charger Head
Catalog         ID:         1972FF1050000010CA         Search           General-A372FF103000010CA         I280         Serial Number:         Search           Type         IPL Head         I         1280         Serial Number:         2           Manufacture date(mm dd yy)         I         J         JI         JI         II           Instalation         Version         Instalation Date:         9         J         4         JII           Machine SN:         002-108         Version         Versialed         Versialed         Versialed	ম		Exit Cooling System Charger Head Switching
Catalog         Search           ID:         \$37EF103000010CA         Search           General         \$37EF103000010CA         Search           Type         IPU-Head         1280         Serial Number:         2           Manufacture date(mm dd yy)         1         /         31         /         11           Installation         Version         1         Installation Date:         9         /         14         /         11           Machine SN:         002-108         V         installed         Varrenty         Version:         1         warrenty Shots:         30000         Life expend. shots         100000	의 의 의	Ţ	Exit Cooling System Charger Head Switching External Indicato
Catalog       ID:       A37EF1030000310CA       Search         General       A37EF103000010CA       Search         A37EF103000010CA       I280       Serial Number:       2         Manufacture date(mm dd yy)       1       31       11         Installation       Installation Date:       9       14       11         Machine SN:       002-108       Installed       Installed         Warrenty       warrenty Shots:       30000       Life expend. shots       100000         Warrenty explered       1       131       12       Days in warrenty       365	য এ বি	Ţ	Exit Cooling Syster Charger Head Switching External Indicato Calibration Devi
Catalog       ID:       STFF105000010CA       Search         General       AS7EF105000010CA       Serial Number:       2         Type       IPL Head       I280       Serial Number:       2         Manufacture date(mm dd yy)       1       / 31       / 11       Installation         Version       1       Installation Date:       9       / 14       / 11         Machine SN:       002-108       Installed       Installed         Warrenty       Version:       1       warrenty       S65         Calbration       Calb date:       2       / 2       / 1       Calb pulsess:       9	의 외 외		Exit Cooling System Charger Head Switching External Indicato Calibration Devi End User Scree
Catalog       ID:       S77EP105000010CA       Search         General       AS7EF105000010CA       Search         Type       IPL Head       I280       Serial Number:       2         Manufacture date(mm dd yy)       1       31       11       Installation         Version 1       Installation Date:       9       1 4       11         Machine SN:       002-108       Version:       1       warrenty Shots:       30000       Life expend, shots       100000         Warrenty expired       1       1       31       12       Days in warrenty       365         Calib date:       2       2       1       Calib pulsess:       9         Factor1:       0.8907       Factor2:       0       Factor4:       0	ন ন ন		Exit Cooling System Charger Head Switching External Indicato Calibration Devi End User Screet Diagnostic
Catalog       ID:       STREFIGS000010CA       Search         General - AS7EF103000010CA       I280       Serial Number:       2         Type       IFL Head       I280       Serial Number:       2         Manufacture date(mm dd yy)       1       31       11         Installation       Installation Date:       9       1       4         Warrenty       Warrenty       Installed       Installed         Warrenty expiered       1       1       12       Days in warrenty       365         Calbration       Calb date:       2       1       Calb pulsess:       0         Factor1:       0.8007       Factor2:       Factor3:       1       Factor4:       0         Dynamic data       Total Shots:       10901       Total Energy:       235962	의 지 지 지		Exit Cooling System Charger Head Switching External Indicator Calibration Devi End User Scree Diagnostic FPGA Diagnosti
Catalog       ID:       S72EF 1030000010CA       Search         General       A372EF 103000010CA       Serial Number:       2         Type       IPU Head       I280       Serial Number:       2         Manufacture date(mm dd yy)       1       / 31       / 11         Installation       Installation Date:       9       / 14       / 11         Machine SN:       002-108       Imstalled       Imstalled         Warrenty       Version:       1       warrenty Shots:       30000       Life expend. shots       100000         Warrenty explered       1       / 31       / 12       Days in warrenty       365         Calbrobion       Calb date:       2       / 2       / 1       Calb pulsess:       9         Factor1:       0.8907       Factor2:       0       Factor3:       1       Factor4:       0         Dynamic data	ন ন ন ন ন ন		Exit Cooling System Charger Head Switching External Indicato Calibration Devi End User Screet Diagnostic FPGA Diagnosti Head Data
Catalog       ID:       STEFICS0000010CA       Search         General       A37EF103000010CA       I280       Serial Number:       2         Type       IPL Head       I280       Serial Number:       2         Manufacture date(mm dd yy)       I       J       JI       JI         Installation       Installation Date:       9       JI4       JII         Machine SN:       002-108       ✓       Installed         Warrenty       Warrenty       I       JI       JII         Machine SN:       002-108       ✓       Installed         Warrenty       I       JII       III       III         Machine SN:       002-108       ✓       III       IIII         Warrenty explered       I       JIII       III       IIIIII       IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	त त त त		Exit Cooling System Charger Head Switching External Indicato Calibration Devi End User Scree Diagnostic FPGA Diagnosti Head Data
Catalog       Search         ID:       STFF105000010CA       Search         General       AS72F105000010CA       Serial Number:       2         Type       IPL Head       I280       Serial Number:       2         Manufacture date(mm dd yy)       1       1       11         Installation       Installation Date:       9       /       14       /       11         Machine SN:       002-108       Imstalled       Imstalled       Imstalled       Imstalled         Warrenty       Version:       1       Installation Date:       9       /       14       /       11         Warrenty       Second       Imstallation Date:       9       /       14       /       11         Warrenty       Second       Imstallation Date:       9       /       14       /       11         Warrenty       Second       Imstallation Date:       9       /       14       /       11         Warrenty       Second       Imstallation Date:       9       /       Int /       Imstalled         Warrenty       Second       Imstallation Date:       9       /       Imstalled       Imstalled         Calibration       Calib d	त त त त		Exit Cooling System Charger Head Switching External Indicato Calibration Devi End User Scree Diagnostic FPGA Diagnosti Head Data
ID:       STEF105000010CA       Search         General       AS7EF105000010CA       Serial Number:       2         Manufacture date(mm dd yy)       1       31       11         Installation       Installation Date:       9       14       11         Manufacture date(mm dd yy)       1       31       11       11         Installation       Installation Date:       9       14       11         Machine SN:       002-108       ✓       Installed         Warrenty       Warrenty       Image: Search       30000       Life expend. shots       100000         Warrenty explered       1       31       12       Days in warrenty       365         Calibration       Calib date:       2       2       1       Calib pulsess:       9         Factor1:       0.8907       Factor2:       0       Factor4:       0       1         Dynamic data       12       Energy from calibration:       60       -       -         Version:       1       RF counter       0       Counter2       0       -         Counter3       0       Total Energy       TotalTime       0       -       -         Manufacture       Vers	त त त त त		Exit Cooling System Charger Head Switching External Indicator Calibration Devi End User Screet Diagnostic FPGA Diagnosti Head Data
Catalog       Search         ID:       AS7EF105000010CA       Search         General       AS7EF105000010CA       Serial Number:       2         Manufacture date(mm dd yy)       1       31       /       11         Installation       Version       1       Installation Date:       9       /       14       /       11         Manufacture date(mm dd yy)       1       /       31       /       11       Installed         Warrenty       Version       1       Installation Date:       9       /       14       /       11         Machine SN:       002-108       Imstallation       Imstalled       Version:       1       Version:       100000         Warrenty expired       1       /       31       /       12       Days in warrenty       365         Calbration       Calb date:       2       /       2       /       1       Calb pulsess:       0         Parcior1:       0.8907       Factor2:       0       Factor3:       1       Factor4:       0       235962         Calbration:       1       Total Shots:       9901       Total Energy:       235962       235962       25962       25962       2596	त त त त		Exit Cooling System Charger Head Switching External Indicato Calibration Devi End User Scree Diagnostic FPGA Diagnosti Head Data
ID:       STEFI05000010CA       Search         General       AS7EF105000010CA       Serial Number:       2         Type       IPL Head       I280       Serial Number:       2         Manufacture date(mm dd yy)       1       j 3 i       j 11         Installation       Installation Date:       9       j 14 / j 11         Machine SN:       002-108       Installed         Warrenty       Yersion:       1       warrenty Shots:       30000       Life expend. shots       100000         Warrenty expired       1       / 3 i       / 12       Days in warrenty       365         Calibration       Calib date:       2       / 2 / 1       Calib pulsess:       0         Factor1:       0.8907       Factor2:       0       Factor4:       0         Dynamic data       12       Energy from calibration:       60         Counters       1       RF counter       0       Total Energy:       235962         Shots from last       12       Energy from calibration:       60       Counter3       0       TotalTime       0         Manufacture       Version:       1       RF counter       0       TotalTime       0       Counter3       0	ন ন ন ন ন ন ন ন ন ন নি		Exit



# **APPENDIX C: Setting the Language Preference**

Refer to Figures 1 - 4:

- 1. In the Utility screen, press User Preferences (see Figure 1).
- 2. In the *User Preferences* screen, press Language Preferences (see Figure 2).
- 3. In the *Language Preferences* screen, select the language preferred in the GUI and press **Save** (see Figure 3).
- 4. To go back to the default language English, press the **Defaults** button (see Figure 4).





Figure 2





