



EQUIPMENT FCC ID : RKAA631BT
Exhibit 4

Page : 1/5

USERS MANUAL ABSTRACT

October 28, 2003

Test report # : 194002DK

Written by : D. RAUD



THERMAL PRINTING SOLUTIONS

A630/A631 PRINTER SERIES

USER MANUAL

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CONTENTS

1	GENERAL OVERVIEW	6
2	TECHNICAL SPECIFICATIONS.....	7
2.1	Summary of technical specifications	7
2.2	Physical specification	8
2.2.1	Dimensions	8
2.2.2	Power supply specifications	8
2.3	Interface specifications	10
2.4	Environmental specifications	10
2.4.1	Environmental conditions.....	10
2.4.2	EMI, ESD and Safety	10
2.4.2.1	<i>CE FCC C-tick</i>	11
2.4.2.2	<i>Safety</i>	13
2.5	Operational performance	13
3	SETTING UP YOUR PRINTER.....	14
3.1	Getting ready to use the printer.....	14
3.1.1	Unpacking the printer	14
3.1.2	Description of printer parts.....	14
3.1.3	Buttons.....	15
3.1.4	LED Indicator	15
3.1.5	Cutter	15
3.1.6	Connectors (Plugging and connecting your printer).....	16
3.1.6.1	<i>Installing the battery and connecting the interface o portable version</i>	16
3.1.6.2	<i>Connecting the power supply and interface on portable and desktop versions</i>	17
3.1.6.3	<i>Charging the battery (A631)</i>	18
3.1.7	Mounting holes	18
3.1.8	Sensors.....	18
3.2	Choosing the proper location for your printer.....	18
3.3	Loading paper	19
3.4	Light indicator.....	20



USERS MANUAL ABSTRACT

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2 TECHNICAL SPECIFICATIONS

2.1 *Summary of technical specifications*

ITEM	VALUE	UNITS
Printing method	Static thermal dot line printing	-
Paper loading	Clamshell™	-
Number of resistor dots	384	-
Resolution	8	dots/mm
Printing width	48	mm
Printing speed	55 (desktop version) max 45 (portable version) max	mm/s
Character Fonts	16 x 24 dots. (24 columns) or 9 x 24 (40 columns)	-
Paper width	58 ± 0.1	mm
Paper bucket diameter	50	mm
Data Buffer	4	K bytes
Head temperature detection	Thermistor	-
Paper empty detection	Opto-sensor	-
Printer voltage range	9 VDC or 110/240 with power supply	-
Power consumption	23	VA
Power supply	110/240 W 50 - 60	V Hz
Maximum duty cycle (in case of non-stop use)	1 sec. On, 6 sec. Off at 20° C 1 sec. On, 8 sec. Off at 50° C	°C
Storage temperature range	-20 to 50	°C
Operating temperature range	5 to 50	°C
Operating humidity	10 to 85	% RH (Non-Condensing)
Storage humidity	10 to 90	% RH (Non-Condensing)
Electrical life time	50	million head pulses per dot
Mechanical life time (abrasion)	50	Km
Over all dimensions: Width Depth Height	108 147 72	mm mm mm
Weight (Without paper roll)	330 or 600 (with battery)	g
Recommended paper	TF50KSE3	-
Maximum paper thickness	80	µ
Interface	RS232 Serial (A6300xxx, A631xxxx) Centronics (A6301xxx) Bluetooth™	-
Certification: EMI	CE; FCC; C-tick ; UL / cUL; Bluetooth™	-
Safety	UL / cUL; IEC 60950	-



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2.3 Interface specifications

See chapter "Communications interface connectors".

2.4 Environmental specifications

2.4.1 Environmental conditions

Operating temperature:	5 to 50 °C
Storage temperature:	-20 to 50 °C
Maximum humidity:	10 to 90 % RH (non-condensing)

Vibration Details upon request : consult AXIOHM's Technical Support Team.

Drop test The printer is packed.
1 meter on concrete
1 meter on wood

2.4.2 EMI, ESD and Safety

Conditions of acceptability:

EMI is measured using AXIOHM power supply adapter ref. **3106262**. UL valid only if the proper power supply (AXIOHM part n° **3106175**) and the proper batteries (AXIOHM part n° **3106282**) are used.

Note: The available replacement kits are:

ref. **3106935** A630/A631 POWER SUPPLY KIT EU for the power supply
ref. **3106880** BATTERY KIT A631 for the batteries.

Safety recommendations: The power supply should be installed so it can be accessed in order to enable power disconnection.

This printer is designed to meet the requirements of:

CE
FCC
C-tick for Australia
UL / cUL

Bluetooth™ (These products are in conformity with the 1999-5-CE directives.

A certificate of compliance is available upon request from Axiohm.)



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2.4.2.1 CE FCC C-tick

Note for Class A products only: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the correction of the interference required will be at the user's expense. Pursuant to Part 15.21 of the FCC Rules, any changes or modifications to this equipment not expressly approved by AXIOHM may cause, harmful interference and void the FCC authorization to operate this equipment.

Concerning products:	
A630/A631	A630Yxxx
FCC, CE Class A	A631Yxxx

Y = all versions except where the fifth digit is 2

A630/A631 Bluetooth™	A6302xxx
FCC Class B, CE Class B	A6312xxx

FCC ID : RKAA631BT

Information to the user, for Class B products only:

The United States Federal Communications Commission (in 47 CFR 15.105) has specified that the following notice be brought to the attention of users of this product:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference's by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and the receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

The user may find the following booklet, prepared by the Federal Communications Commission, helpful: How to Identify and Resolve Radio/TV Interference Problems. This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402, Stock No. 004-000-00345-4.

Use of a shielded cable is required to comply within Class B limits of Part 15 of FCC Rules.

Pursuant to Part 15.21 of the FCC Rules, any changes or modifications to this equipment not expressly approved by AXIOHM may cause, harmful interference and void the FCC authorization to operate this equipment.