



MOMI-13

13.3" Tablet PC

User Guide



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General Information

Revision History

Date	Version	Updates
2024/03	1.0	First Release

Trademark Recognition

All product names and trademarks used in this user's guide are properties of their respective owners.

Intended Use

Thank you for choosing the MOMI-13 product. This device is intended to serve as a computing unit in a healthcare institution for general use by healthcare personnel. It can be mounted on the wall under 2 meters or placed on a nursing cart.

Operating Principle

1. By utilizing the computing unit, it can translate inputs into meaningful data and information, and show on the screen for user easy access.
2. Users can gain data and information from it, and input feedback proactively through touch screen or relative peripherals.

Significant Performance Characteristics

MOMI-13 can connect with relative devices as supplementary unit to the main frame for efficiency.

Operator Profile / Intended User Profile

Software and hardware are adjustable for relative personnel upon different applications.

Contact Information

Inventec Corporation
No. 66 Hou-Kang Street, Shih-Lin
District, TAIPEI 111, TAIWAN
Webpage: www.inventec.com

Safety and Maintenance

To avoid any damages caused by improper usage, please read the following information carefully before you start using your tablet PC.

Electrical and Power Source Related Hazards

- Use only the power supply and power cord included with your device.
- Ensure your electrical outlet is the same voltage and frequency as shown on the power supply. If you are unsure of the outlet's voltage and frequency, please consult the local power authority.
- To avoid power circuit overloads, ensure your wall outlet, extension cord, power strip, or other electrical receptacles are rated to handle the total current drawn by the MOMI-13 in combination with other devices sharing the same power circuit.
- Please route the power cord properly to prevent it being stepped on.
- For your safety, avoid touching the plug if your hands are wet.
- Hold the power cord by the plug when disconnecting it from the electrical outlet.
- If the device is not going to be in use for an extended period, disconnect the device from the electrical outlet.
- Allowing foreign objects or liquids to enter the device could result in fire or electric shock.
- Warning: To avoid risk of electric shock, this equipment must only be connected to a power supply with protective earth.
- When the device uses a separate power supply (Power Adapter), the external power supply should be a part of the medical equipment.

Abnormal Handling Procedure / Technical Support and Contact Information

- Product itself is designed with “long-press” on the “Power Button” as an enforced shut-down.
- Access number to local system integrator partners.

Environmental Related Hazards

- Do not use the device under the following conditions:
 - In extremely hot, cold or humid environments. For more information, refer to page 13.
 - In areas susceptible to excessive dirt, dust, fumes, or steam.
 - In direct sunlight or heat generating sources.

Disposal of the Battery

- Most rechargeable lithium polymer batteries are classified as non-hazardous waste and can be safely disposed of in accordance with normal urban waste disposal procedures. In many areas, laws have been enacted to require the recycling of batteries. Please confirm local regulations to ensure that rechargeable batteries can be disposed of as normal waste.

To safely discard lithium polymer batteries, protect the battery terminals with packaging, covering, or electrical insulation tape to avoid contact with other metals and transport without causing a fire. However, lithium polymer batteries do contain recyclable materials and can be recycled according to the Rechargeable Battery Recycling Corporation (RBRC) battery recycling program.

Do not throw the battery into a fire to avoid an explosion.

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. END-USERS ARE NOT ALLOWED TO REPLACE THE BATTERY.

Other Hazards

- Do not use the device if it has been dropped, power supply cord or plug have been damaged, liquid has been spilled on to the device, device has been exposed to rain or moisture, or any other physical damage has occurred.

Caring for Your Device

- Turn off and unplug the power cord from the electrical outlet before cleaning the device.
- When the screen/panel is dirty please use a PDI detergent wipe or a similar product to clean the screen/panel.
- Do not use any acids or cleaning alkali liquids as this may cause cosmetic damage.



To clean the display

Clean the display using a sponge, cleaning cloth or soft tissue, lightly moistened with a recognized cleaning product for medical equipment. Read and follow all label instructions on the cleaning product. In case of doubt about a certain cleaning product, use plain water.

Possible cleaning solutions:

- 75% isopropyl alcohol
- 1.6% aqueous ammonia
- Sodium hypochlorite (bleach) 5%
- 0.5% Chlorhexidine in 70% isopropyl alcohol

Do not use following products :

- Alcohol/solvents at higher concentration > 70%
- Strong alkalis lye, strong solvents, Acid, Detergents with fluoride
- Detergents with ammonia at higher concentration > 1.6%
- Detergents with abrasives
- Steel wool, Sponge with abrasives, Steel blades, Cloth with steel thread

CAUTION:

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

Power connection – Used in conjunction with a 19V power supply (FSP, type FSP090-RBBM1)

- Power requirements: The equipment must only be powered using the delivered medical approved 19VDC (4.74A) SELV power supply.
- The medical approved DC power supply must be powered by the AC mains voltage.
- The power supply is specified as a part of the ME equipment or combination is specified as a ME system.
-   To avoid the risk of electric shock, this equipment must only be connected to a supply mains with protective earth. (for Class I power adapter)
-  Disconnect device: Appliance inlet of Power Adapter, please do not to position the Power Adapter too far to difficultly operate the disconnection device.
- The equipment should be installed near an easily accessible outlet.
- The equipment is intended for continuous operation.
- If a different power supply will be used, further investigation for safety and EMC requirements have to be performed at system level.

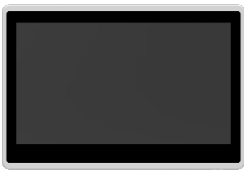
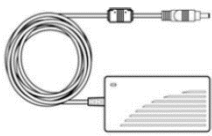
(Adaptor Tech, Type ATM065T-A190)

- Power requirements: The equipment must only be powered using the delivered medical approved 19VDC (3.43A) SELV power supply.
- The medical approved DC power supply must be powered by the AC mains voltage.
- The power supply is specified as a part of the ME equipment or combination is specified as a ME system.
-  **WARNING!** To avoid the risk of electric shock, this equipment must only be connected to a supply mains.
-  Disconnect device: Appliance inlet of Power Adapter, please do not to position the Power Adapter too far to difficultly operate the disconnection device.
- The equipment should be installed near an easily accessible outlet.
- The equipment is intended for continuous operation.
- If a different power supply will be used, further investigation for safety and EMC requirements have to be performed at system level.

Product Overview

Package Contents

Before using your tablet PC, ensure all the following items are included in the package. If any of the items are missing or are damaged, please contact your dealer.

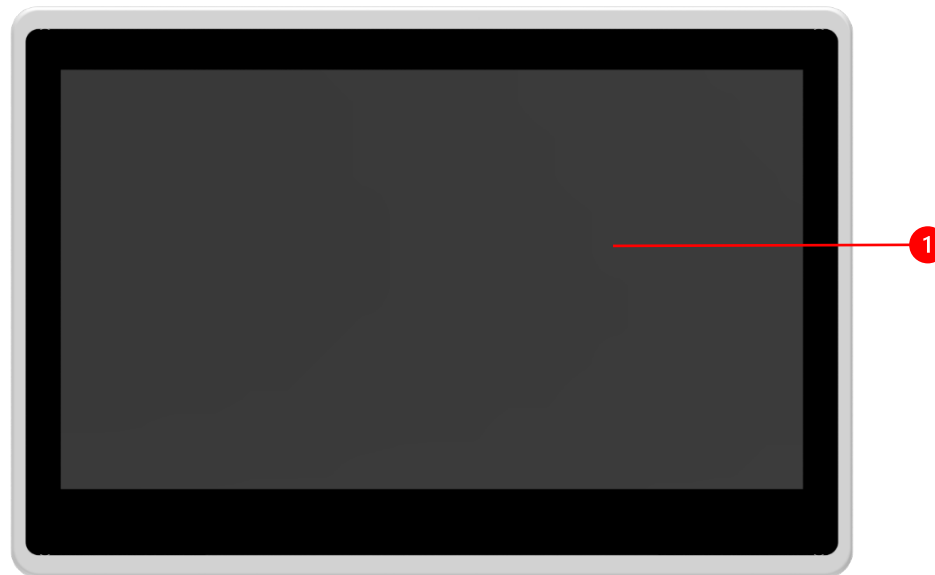
	
MOMI-13 Tablet PC	User Manual (PDF from your local dealer)
	
AC Adapter (Input: 100-240V ~ 50-60Hz) (Output: 19V, 3.43A / 65W)	Power Cord

Features

Device features include:

- Weight 1.8 Kg
- Intel® Pentium® N6415, Quad Core @1.2GHz, 1.5 MB L2 Cache.
- SSD M.2 NVME storage support
- 10 points projected capacitive (PCAP) multi-touch display with dual layers glove support
- Standard VESA mounts
- Versatile I/O interface
- Type C support DP output
- WIFI module support
- RFID module support

Front View

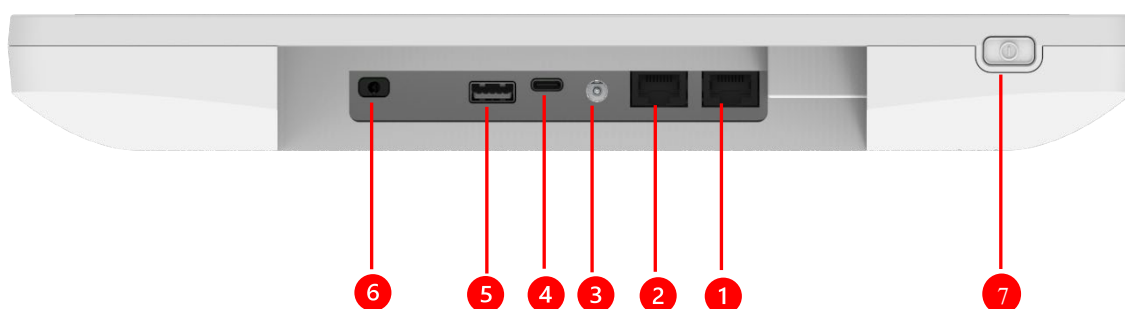


No.	Item	Description
1	Touchscreen	10 point projected capacitive multi-touch display with glove support.

Top View



Bottom View

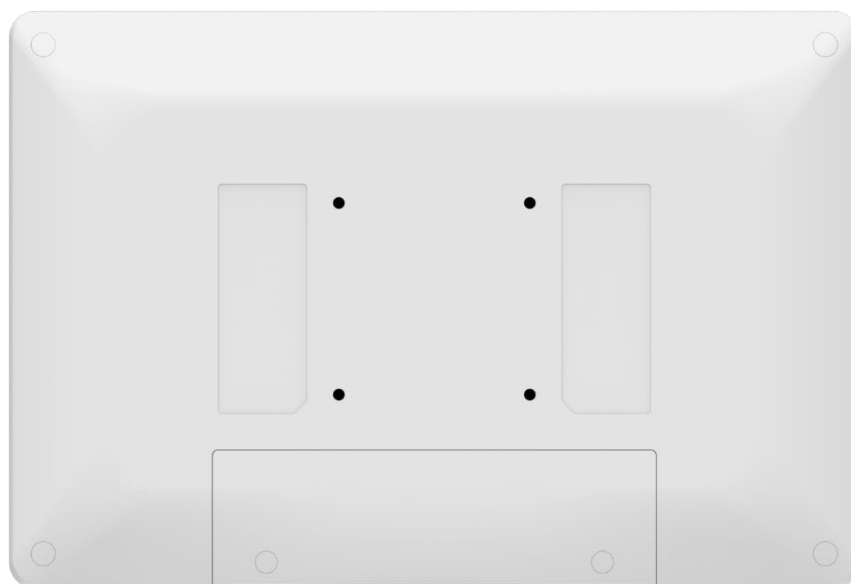


No.	Item	Description
1	Gigabit LAN Port	Connect to a Local Area Network (LAN)
2	Gigabit LAN Port	Connect to a Local Area Network (LAN)
3	DC-In Jack	Power input from the supplied AC adapter
4	USB Type C	Connect USB Type C DP or USB compatible devices
5	USB Type A	Connect USB Type A compatible devices
6	Audio Jack	External audio output
7	Power button	Push short to power on system

Left and Right Views

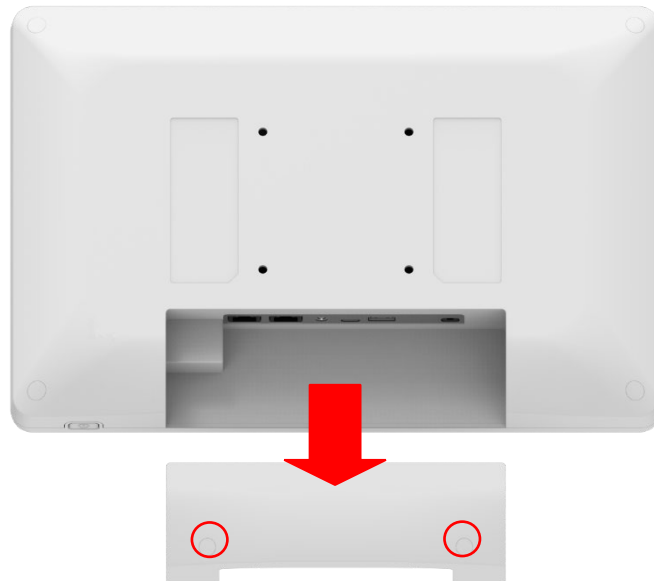


Rear View

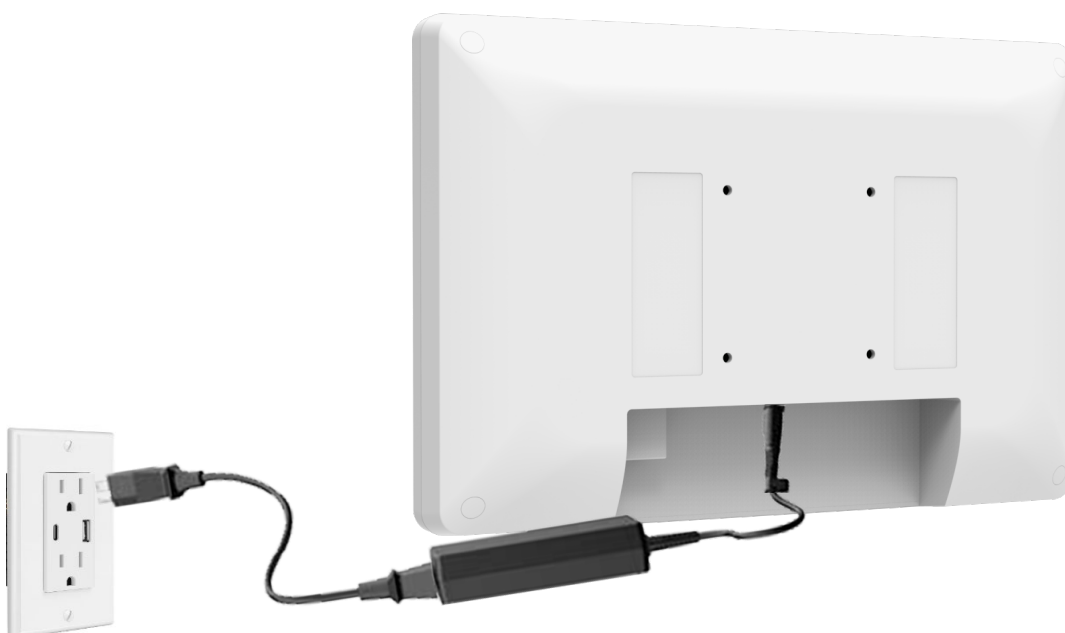


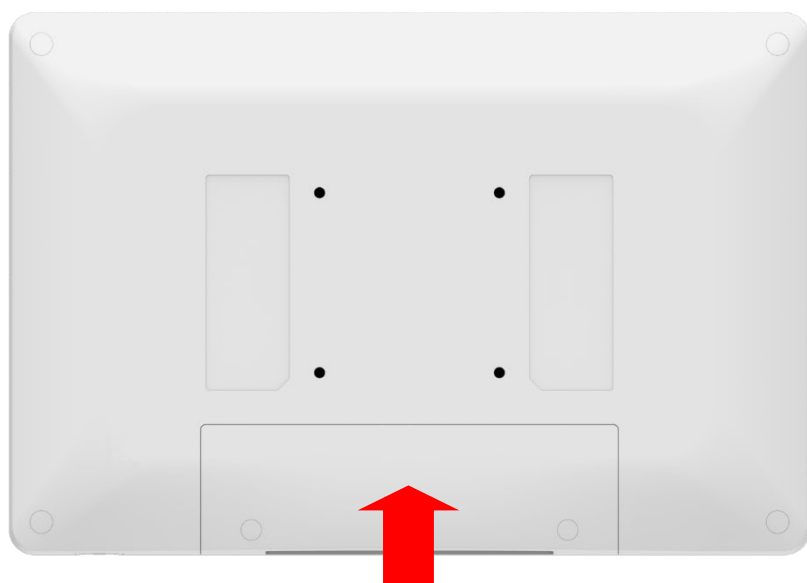
Switching On the Device

1. Remove the two rubber-caps and unscrew the IO cover 2 screws as shown.
2. Remove the IO cover from the MOMI-13 device.



3. Connect the AC adapter to the DC-in jack on the tablet PC's bottom as illustrated. Connect USB / LAN cable, Audio cable as needed. To properly install the rear cover by following the above steps in reverse order.
4. Connect the power cord to an electrical outlet.

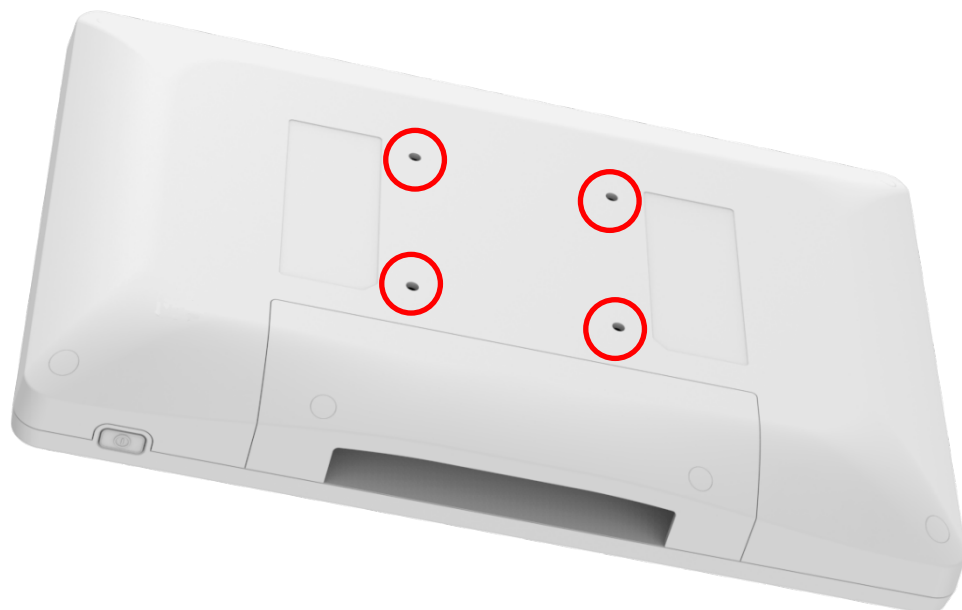




5. Push short the power button on the bottom side of the device. Your tablet PC is ready to be used.



6.  VESA 75mm mounting M4 screw holes (10mm x 4), use VESA qualified stand or bracket to install



Specifications

The following table includes all the features and operational requirements regarding your tablet PC.

Item	Description
Processor (SoC)	Intel ® Pentium® N6415, Quad Core @1.2GHz, 1.5 MB L2 Cache
BIOS	Insyde
Operating System	Microsoft Windows 10 IoT LTSC
Networking	Built-in Gigabit Ethernet LAN interfaces (2 ports)
Memory	8GB DDR4 SODIMM RAM
Storage	128GB M.2, SSD module
LCD Panel Characteristics	13.3" TFT LCD 1920 x 1080 pixels resolution
Audio port	1 x (3 in1) Audio Combo Jack
USB	1 x USB 3.2 type A port 5V/0.9A,4.5W 1 x USB 3.2 type C port, support DP and USB
Button	1 x Power button
Input device	Touchscreen multi-touch (PCAP technology)
Wireless	Wi-Fi 2.4G Wi-Fi 5G BT 5.3 RFID 13.56MHz (NFC)
Power source input	19VDC/
Internal battery ability	3880mAh / 7.2 V
Power supply	Medical class AC-DC power supply
Operating temperature	10 °C to 40 °C
Operating humidity	20% to 80% for performance / 10% to 90% for safety (non-condensing)
Storage temperature	-20 °C to 60 °C
Storage humidity	10% to 93% (non-condensing)
Storage altitude	70 to 110 kPa
Operating altitude	3000 m (Max)
Weight	1.8 Kg
Dimensions (W x H x D)	334 x 226 x 40 mm
Certification	China: CCC Europe: CE (ITE) US: FCC Japan: VCCI UK: UKCA

Regulatory Information

Intended Purpose

MOMI-13 is a hardware device for hospital environment usage. It can be used for third party software applications that provide a user interface for medical systems. The equipment can be used in Cath Lab Examination Rooms & Control Rooms, Surgical Rooms and Hybrid Operating Rooms, both inside and outside the patient area. The equipment is not intended to be used for displaying medical images, nor for diagnostic purposes.

Manufacturing country

The manufacturing country of the product is indicated on the product label (“**Made in Taiwan**”).

Importers contact information

To find your local importer, contact one of regional offices.

FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

FCC class B

with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

MOMI-13 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 device 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 device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the device and receiver.
- Connect the device 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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

RF Exposure Information (SAR)

MOMI-13 meets the government's requirements for exposure to radio waves. This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

The exposure standard employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg. Tests for SAR are conducted using standard operating positions accepted by the FCC with the EUT transmitting at the specified power level in different channels.

The FCC has granted an Equipment Authorization for this device with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this device is on file with the FCC and can be found under the Display Grant section of www.fcc.gov after searching on FCC ID: DGIAX210NG.

UKCA compliance

Authorised representative in the UK: Contact your local dealer.

EMC Notice

General information

MOMI-13 is suitable for use in professional healthcare facility environments only



WARNING: Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the MUIP-2213, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.



WARNING: Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.



WARNING: Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.

With the installation of the device, use only the delivered external cables and power supply or a spare part provided by the legal manufacturer. Using another can result in a decrease of the immunity level of the device.

Electromagnetic emissions

The MOMI-13 is suitable for use in the electromagnetic environment specified below. The customer or the user of the MOMI-13 should assure that it is used in such an environment.

Emissions test	Compliance	Electromagnetic environment – Guidance
RF emissions CISPR 11	Group 1	The MOMI-13 uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class B	The MOMI-13 is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emissions IEC 61000-3-2	Class D ⁽¹⁾	
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Complies	

This MOMI-13 complies with appropriate medical EMC standards on emissions to, and interference from surrounding equipment. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Interference can be determined by turning the equipment off and on.

If this equipment does cause harmful interference to, or suffer from harmful interference of, surrounding equipment, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna or equipment.
- Increase the separation between the equipment and 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 technician for help.

Electromagnetic immunity

The MOMI-13 is tested to be used in the electromagnetic environment specified below. The customer or the user of the MOMI-13 should assure that it is not used in an environment that exceeds the listed test levels and limits.

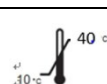
1. Active power for MOMI-13 is less than 75 W

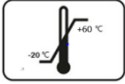
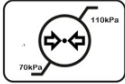
2.

Immunity test	IEC 60601 test levels	Compliance level	Electromagnetic environment – guidance
Electrostatic discharge (ESD) IEC 61000-4-2	± 8 kV contact ± 2 kV, ± 4 kV, ± 8 kV, ± 15 kV air	± 8 kV contact ± 2 kV, ± 4 kV, ± 8 kV, ± 15 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%
Electrical fast transient/burst IEC 61000-4-4	±Input AC/DC Power Ports: ± 2 kV 5 / 50 Tr/Th (ns) 100 Repetition frequency (kHz) I/O and Communication Port: ± 1 kV 5 / 50 Tr/Th (ns) 100 Repetition frequency (kHz)	Input AC/DC Power Ports: ± 2 kV 5 / 50 Tr/Th (ns) 100 Repetition frequency (kHz) I/O and Communication Port: ± 1 kV 5 / 50 Tr/Th (ns) 100 Repetition frequency (kHz)	Mains power quality should be that of a typical commercial or hospital environment
Surge IEC61000-4-5	Line to line: ± 0.5 kV, ± 1 kV Line to ground: ± 0.5 kV, ± 1 kV, ± 2 Kv.	Line to line: ± 0.5 kV, ± 1 kV Line to ground: ± 0.5 kV, ± 1 kV, ± 2 kV	Mains power quality should be that of a typical commercial or hospital environment
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	0% residual voltage for 0.5 period at 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0% residual voltage for 1 period at 0° 70% residual voltage for 25 periods at 0° Voltage interruptions: 0% residual voltage for 250 periods at 0°	0% residual voltage for 0.5 period at 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0% residual voltage for 1 period at 0° 70% residual voltage for 25 periods at 0° Voltage interruptions: 0% residual voltage for 250 periods at 0	Mains power quality should be that of a typical commercial or hospital environment. If the user of the MOMI-13 requires continued operation during power mains interruptions, it is recommended that the MOMI-13 be powered from a battery
Power frequency magnetic field IEC 61000-4-8	50 or 60 Hz 30 A/m	50 or 60 Hz 30 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment
Conducted RF IEC 61000-4-6	3 Vrms (6 Vrms in ISM bands & amateur radio band)	3 Vrms (6 Vrms in ISM bands & amateur radio band)	If there is a mark on the device as shown on the right

Symbols On The Device

On the device or power supply, you may find the following symbols (nonrestrictive list):

	Indicates the device meets the requirements of the applicable EC directives/regulations.
	Indicates compliance with Part 15 of the FCC rules (Class A or Class B)
	Indicates the device is approved according to the CCC regulations
	Indicates the device is approved according to the VCCI regulations
	Indicates the device is approved according to the PSE regulations
	Indicates the device is approved according to the UKCA regulations.
	Environment Friendly Use Period (EFUP) is the period of time before any of the RoHS substances are likely to leak out
	Please carefully read and follow the instructions and warnings on the label to ensure safe use.
	RoHS compliant device
	Indicates this device must not be thrown in the trash but must be recycled, according to the European WEEE (Waste Electrical and Electronic Equipment) directive
	Consult the instructions for use
	Halogen Free device
	Indicates Direct Current (DC)
	Indicates 10 °C to 40 °C for units to safely operate within specs.
	Indicates a device that can be broken or damaged if not handled carefully when being stored.

	Indicates a device that needs to be protected from moisture when being stored.
	Indicates the storage direction of the box. The box must be transported, handled and stored in such a way that the arrows always point upwards.
	Indicates the maximum number of identical boxes which may be stacked on each other, where “n” is the limiting number.
	Indicates the temperature limits ⁴ to which the device can be safely exposed when being stored.
	Indicates the range ⁴ of humidity to which the device can be safely exposed when being stored.
	Indicates the range ⁴ of atmospheric pressure to which the device can be safely exposed when being stored.
	Packing recycle

Environmental Information

Disposal Information



Waste Electrical and Electronic Equipment (WEEE)

This symbol on the product indicates that, under the European Directive 2012/19/EU governing waste from electrical and electronic equipment, this product must not be disposed of with other municipal waste. Please dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

For more information about recycling of this product, please contact your local city office or your municipal waste disposal service. For details, please visit the website at: <https://www.inventec.com/en/csr-1>

Turkey RoHS compliance



Türkiye Cumhuriyeti: AEEE Yönetmeliğine Uygundur.
[Republic of Turkey: In conformity with the WEEE Regulation]

中国大陆 RoHS

Chinese Mainland RoHS

根据中国大陆《电器电子产品有害物质限制使用管理办法》（也称为中国大陆 RoHS），以下部分列出了 MOMI-13 产品中可能包含的有毒和/或有害物质的名称和含量。中国大陆 RoHS 指令包含在中国信息产业部 MCV 标准：“电子信息产品中有毒物质的限量要求”中。

According to the “Management Methods for the Restriction of the Use of Hazardous Substances in Electrical and Electronic Products” (Also called RoHS of Chinese Mainland), the table below lists the names and contents of toxic and/or hazardous substances that MOMI-13 product may contain. The RoHS of Chinese Mainland is included in the MCV standard of the Ministry of Information Industry of China, in the section “Limit Requirements of toxic substances in Electronic Information Products”.

零件项目(名称) Component name	有毒有害物质或元素 Hazardous substances and elements					
	铅 Pb	汞 Hg	镉 Cd	六价铬 Cr6+	多溴联苯 PBB	多溴二苯醚 PBDE
印制电路配件 Printed Circuit Assemblies	O	O	O	O	O	O
液晶面板 LCD panel	O	O	O	O	O	O
外接电(线)缆 External Cables	X	O	O	O	O	O
内部线路 Internal wiring	O	O	O	O	O	O
金属外壳 Metal enclosure	O	O	O	O	O	O
塑胶外壳 Plastic enclosure	O	O	O	O	O	O
散热片(器) Heatsinks	O	O	O	O	O	O
電池 Battery	O	O	O	O	O	O
电源供应器 Power Supply Unit	O	O	O	O	O	O
文件说明书 Paper Manuals	O	O	O	O	O	O
本表格依据SJ/T 11364的规定编制 This table is prepared in accordance with the provisions of SJ/T 11364. O: 表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T11363-2006 标准规定的限量要求以下。 O: Indicates that this toxic or hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006. X: 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363-2006 标准规定的限量要求。 X: Indicates that this toxic or hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in SJ/T11363-2006.						

在中国大陆销售的相应电子信息产品（EIP）都必须遵照中国大陆《电子电气产品有害物质限制使用标识要求》标准贴上环保使用期限（EFUP）标签。Barco 产品所采用的 EFUP 标签（请参阅实例，徽标内部的编号使用于指定产品）基于中国大陆的《电子信息产品环保使用期限通则》标准。

All Electronic Information Products (EIP) that are sold within Chinese Mainland must comply with the “Marking for the restriction of the use of hazardous substances in electrical and electronic product” of Chinese Mainland, marked with the Environmental Friendly Use Period (EFUP) logo. The number inside the EFUP logo that Barco uses (please refer to the photo) is based on the “General guidelines of environment-friendly use period of electronic information products” of Chinese Mainland.



中国 RoHS 自我声明符合性标志/ China RoHS – SDoC mark

本产品符合《电器电子产品有害物质限制使用管理办法》和《电器电子产品有害物质限制使用达标管理目录》的要求。

This product meets the requirements of the “Management Rule on the Use Restriction of Hazardous Substances in Electrical and Electronic Products” and the “Management Catalogue for the Use Restriction of Hazardous Substances in Electrical and Electronic Products”.



绿色自我声明符合性标志可参见电子档文件

According to what declared by our components suppliers, this product is RoHS compliant.

RoHS

Directive 2011/65/EC on the restriction of certain hazardous substances in electrical and electronic equipment.

According to what declared by our components suppliers, this product is RoHS compliant.