

# ALGIZ 12XR

## Manual






**handheld**

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## What's in the Box

Item	Description
	One 3 Cell Li-Ion Battery Pack
	19V Adapter w/ standard power cord. Standard type, 1.8M
	ALGIZ 12XR Quick start guide

## PART 1:

### IDENTIFYING ALGIZ 12XR

#### Specification

ALGIZ 12XR is a rugged tablet PC designed for use in various challenging environments, e.g., field work, outdoor activities and construction sites. With its rugged design, ALGIZ 12XR is able to withstand shocks, vibrations, high humidity as well as high/ low temperatures.

System	
Processor	Intel Atom® x6413E Quad Core 1.5 GHz Processor
BIOS	AMI System BIOS
Chipset	Intel ATOM Soc Integrated
Memory	SO-DIMM DDR4 3200 16G
Storage	SATA interface, M.2-2242 SATA3, 256GB SSD module with possibility to upgrade to 512GB Max.
Audio	Microphone-in. Internal Speaker

Display Specification	
Size	11.6" (16:10)
Resolution	1920 x 1200
Brightness	850 cd/m2 (typ.)
Touch	10 points projective capacitive touch

I/O Connectors	
Right Side	1xUSB 3.0 Type-A, 1xUSB 3.0 Type-C, 1x USB 3.0 Type-C Power Delivery / DisplayPort
Bottom Side	Pogo-pin for docking 1xDC Power Jack
Rear Side	Service Window Rear pogo connector for expansion

Buttons and Indicators	
Control Button	Power On/Off, Touch Mode/Lock, Menu, Windows key, two programmable hotkeys
LED Indicators	Power Status, SSD Status, Battery Status

## Boot Options

F1	Initiate factory reset
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## Factory Reset

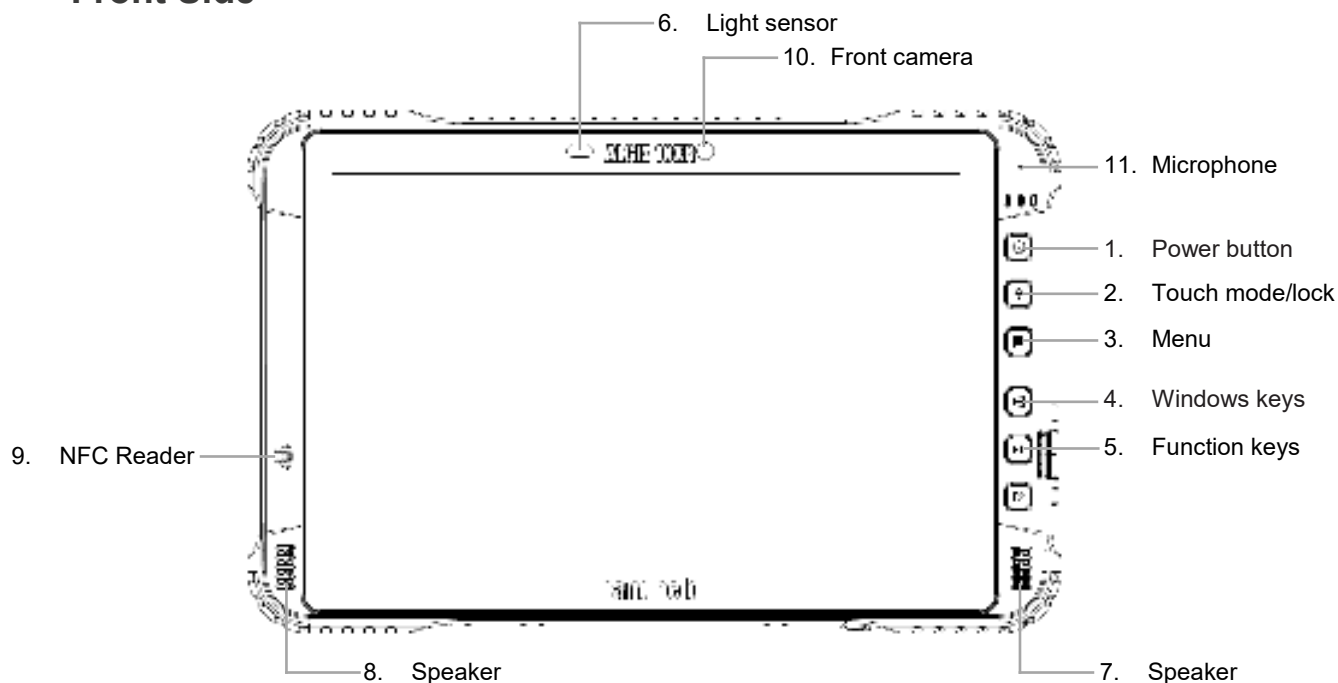
The ALGIZ 12XR has a built-in recovery utility that can be used to reset your computer's SSD disk to its factory state. Press **F1** during booting when BIOS logo screen appears. Follow the instructions on the screen to continue with the factory reset.



**CAUTION:** This procedure will erase all data on your disk.

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## Front Side



Ref.	Item	Description
1	Power button*	Hold down for a short period to turn the computer on
2	Touch mode/lock	Touch mode selection. Lock screen.
3	Menu	Controls brightness, battery, power to modules and system information.
4	Windows key	Open start menu
5	Function keys	Two programmable buttons. Press menu to configure.
6	Light Sensor	Sense the ambient light for auto-adjustment of the display brightness. The feature can be enabled through the OSD Control Keypad.
7 & 8	Speaker	Front Speaker
9	NFC reader	NFC reader
10	Front camera	Front camera
11	Microphone	Voice input.

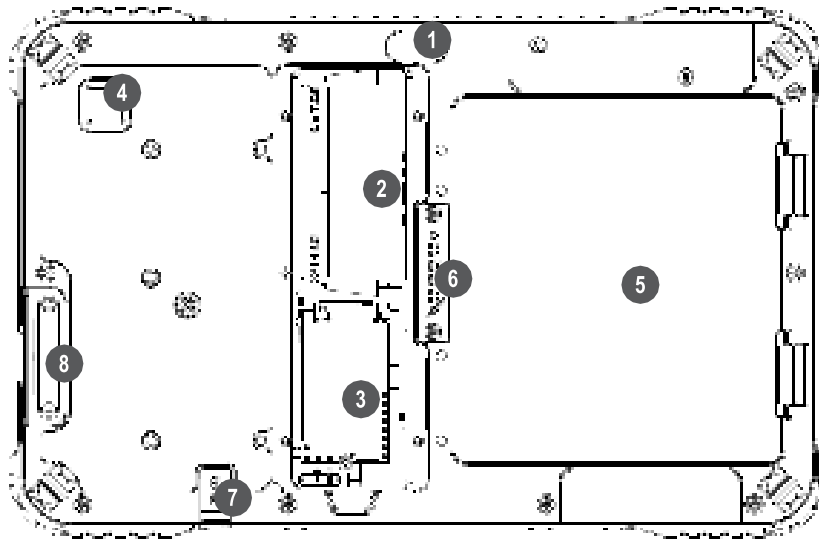
\* If computer does not respond you can power off by holding down the Power Button until the LEDs switches off. Hold down for about 4 seconds.

## LED Indicators

LED Term	Symbol	Indicator Status Description
Power Mode		Green: System is on No light: System is off or LED indicators are off in Hot Tab
Storage Status		Flashing blue light: SSD is reading/writing data
Battery Status		Green: Full battery, 100 % Red: Low battery, 10 % Orange: Charging Flashing red: Running on Hot-swap battery

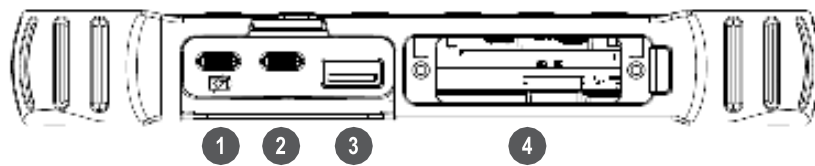


## Rear Side



Ref.	Item	Description
1	Rear Camera	Rear camera with LED flash
2	Service Window	Expansion slots - Memory module
3	Service Window	Expansion slots
4	Fingerprint Reader	Fingerprint reader
5	External Battery	Exchangeable external battery
6	Rear Pogo Connector	Rear pogo connector for expansion
7	DC Jack Cover	Waterproof cover for DC jack
8	I/O Connector Cover	Waterproof cover for USB ports

## Right Side



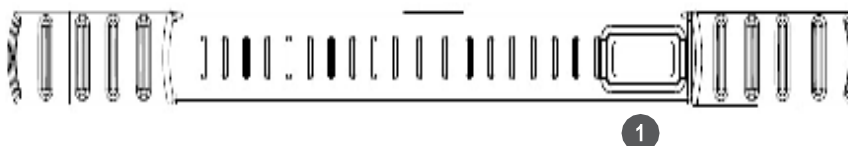
Ref.	Item	Description
1	USB 3.0 Port	Type C (Power Delivery and DisplayPort Alternate Mode)
2	USB 3.0 Port	Type C
3	USB 3.0 Port	Type A
4	Side Expansion Slot	Side expansion slot for below expansion module <ul style="list-style-type: none"> <li>● RS232 module</li> <li>● CAN BUS module</li> <li>● RJ45 ethernet module</li> </ul>

## Bottom Side



Ref.	Item	Description
1	Bottom Pogo Connector	Bottom pogo connector for docking
2	DC Power Jack	19V DC/65W, 100 ~ 240V, 50 ~ 60Hz

## Top Side



Ref.	Item	Description
1	Barcode Scanner	2D barcode scanner

## **PART 2:**

### **USING ALGIZ 12XR**

Before turning the unit on, make sure that the tablet is either connected to AC Adapter or Battery Pack.

## AC Adapter

The ALGIZ 12XR power supply comprises the power adapter and the battery pack. The power adapter converts AC power from a wall outlet to the DC power required by the ALGIZ 12XR. Your ALGIZ 12XR comes with a universal AC-DC adapter. That means that you may connect the power cord to any 100V -120Vas well as 220V-240V outlets without using power converters. Different countries may require an adapter to be used to connect the supplied standard AC power cord to a different standard.

## Battery Pack

The ALGIZ 12XR is designed to work with two types of battery. A standard battery with 3640mAh and an extended battery with double the capacity. The battery life especially depends on the battery's condition, tablet usage, as well as the temperature.

The power rating and manufacturer information are listed as below. For safety reason, the adapter power cord must be connected to safety ground.

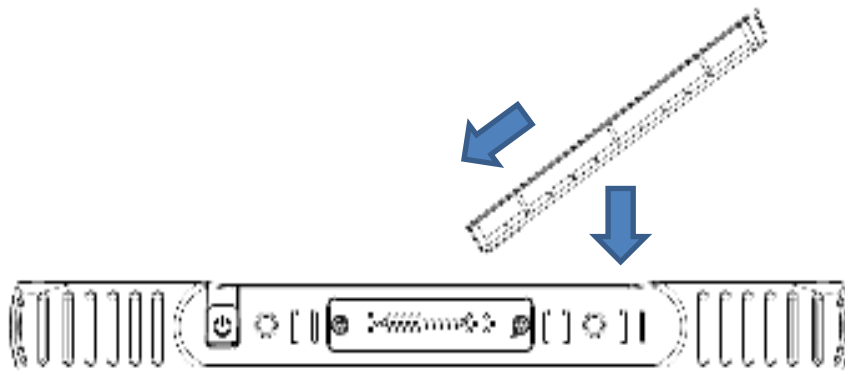
Power Adapter	Manufacturer: FSP TECHNOLOGY INC. Model: FSP065-RBBN3 Input Rated: 100-240Vac, 3.42A, 50-60Hz. Output Rated: DC 19V, 3.42A.
Battery Pack	Manufacturer: ATEMITECH CORPORATION Model: ALG12XR-1004 Rated: 3520mAh DC 11.55V



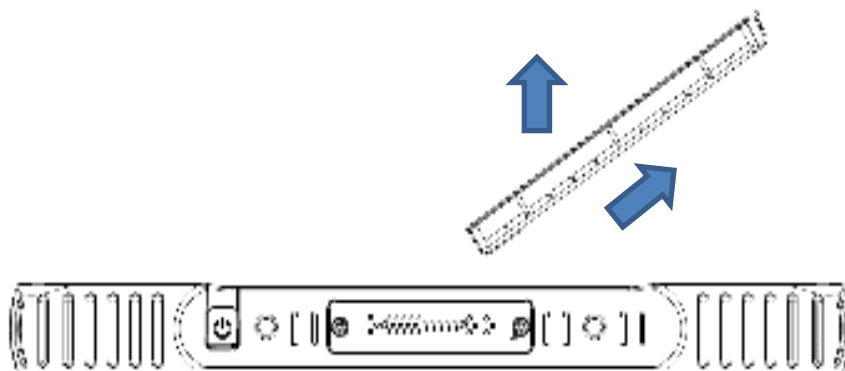
**CAUTION:** Do not attempt to fix or replace the battery, as this may cause an explosion! Only use the specified battery and follow the instructions in the manufacturer's user manual.

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## Insertion of the Battery Pack



## Removal of the Battery Pack



## Charging the Battery

When the power adapter is plugged in, the battery automatically recharges regardless of whether your tablet PC is in the ON or OFF mode. It takes a couple of hours for the battery to be fully charged when the power is OFF and twice as long when the tablet PC is in use. When Tablet battery is low capacity and charging needed, the Red indicator is on. During charging process, the Orange indicator is on. When the battery is fully charged, the Green indicator is on.



**CAUTION:** If unit is kept in storage for longer periods of time (6 months without it being used), the hot-swap battery might discharge to very low capacity, meaning its function no longer expected as normal.

Prior to hot-swap battery, please make sure tablet connected to AC adapter for one hour and charging full.

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For Battery Pack ALG10XR-1004:

Highest specified charging temperature = 50 °C

Lowest specified charging temperature = -5 °C

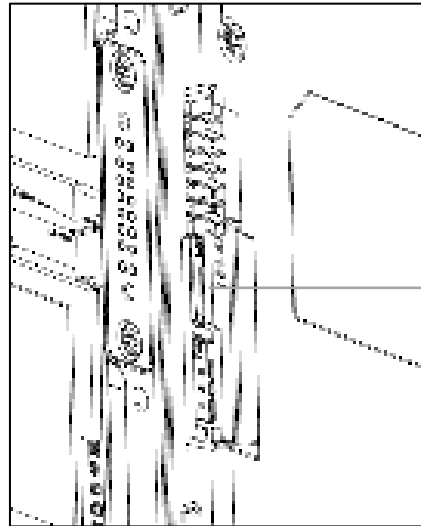
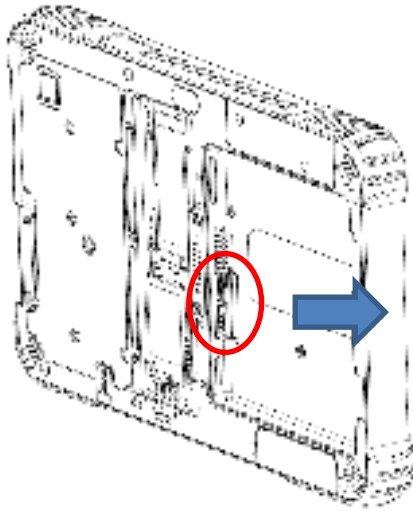
For Battery Pack Tab-InnerB01:

Highest specified charging temperature = 65 °C

Lowest specified charging temperature = -5 °C

## Installing Micro SD Card

Remove the battery on the rear side, Micro SD socket resident in the battery room. Insert the Micro SD card, according to the pictures below.



1. Micro SD Slot

## Starting ALGIZ 12XR

Press the power button for a while to power on the ALGIZ 12XR. Follow the Microsoft Windows on-screen instructions to get started with Windows.

## **PART 3:**

## **SOFTWARE**




## Hot-Tab

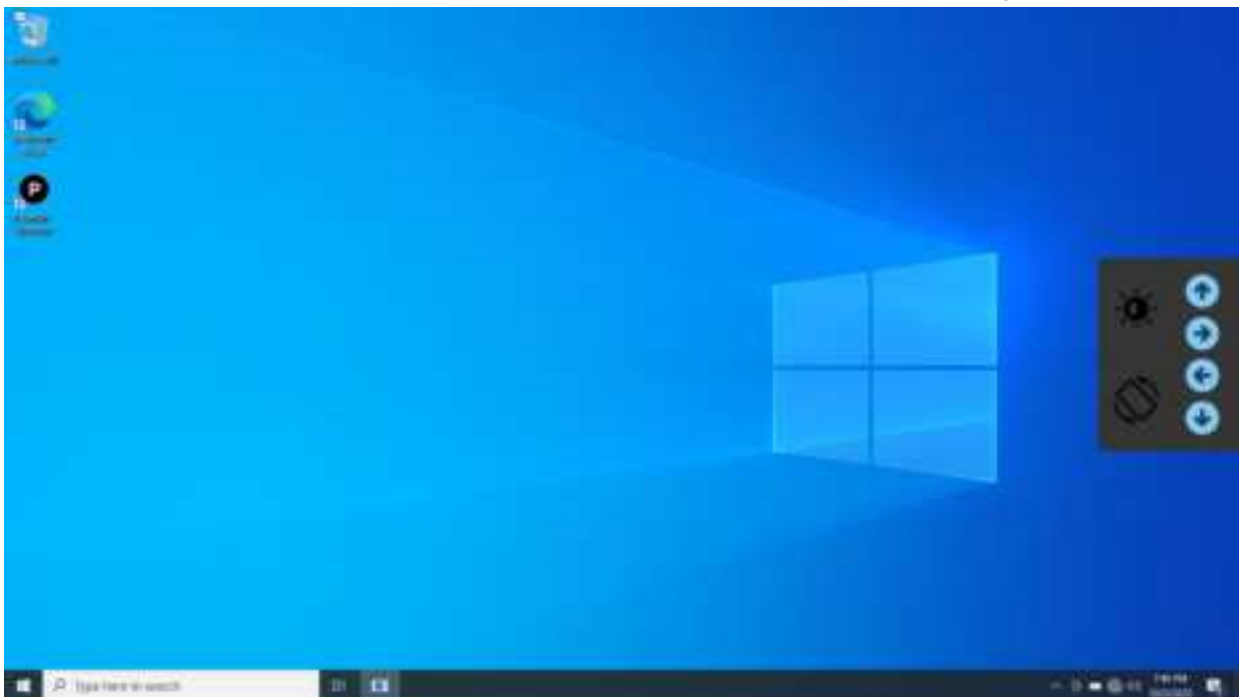
ALGIZ 12XR comes pre-installed with the control program Hot-Tab that can be used to monitor and control features and multiple connected devices such as screen brightness, screen orientation, battery status, Bluetooth, GPS, etc. You can press the menu button on the ALGIZ 12XR panel to open the program, and the interface will appear on the right side of the screen.


Closing the Hot-Tab interface: To close the Hot-Tab interface, click anywhere outside the Hot-Tab area.



## Auto-rotation

You can choose to turn on the auto-rotate screen mode. Click the  icon to enter the sub page.




Click the  icon to switch between automatic and manual rotate modes. In auto-rotate mode, the screen automatically rotates depending on the device's orientation. To select the manual-rotate mode, please use the right button to complete the setting.

## Devices


Shortcut keys are available to turn on and off the following:

- (1) Bluetooth
- (2) GPS
- (3) WLAN


Click the  icon to open the sub-page.

### (1)Bluetooth

ALGIZ 12XR has Bluetooth connectivity. Turn it on to establish connection with your Bluetooth devices.

Click the  icon to turn Bluetooth on or off.


### (2)GPS

ALGIZ 12XR has a GPS unit. Click the  icon to set the GPS on or off.


After the GPS is turned on, it begins to search for satellite data to calculate its position. The calculation may take seconds to several minutes depending on factors such as the strength of the satellite signal and the noise density in the environment.

### (3)WLAN

ALGIZ 12XR supports IEEE 802.11 ac/a/b/g/n and 2.4GHz/5GHz WiFi connection.

Click the  icon to turn on or off the WiFi function.

## Battery Status

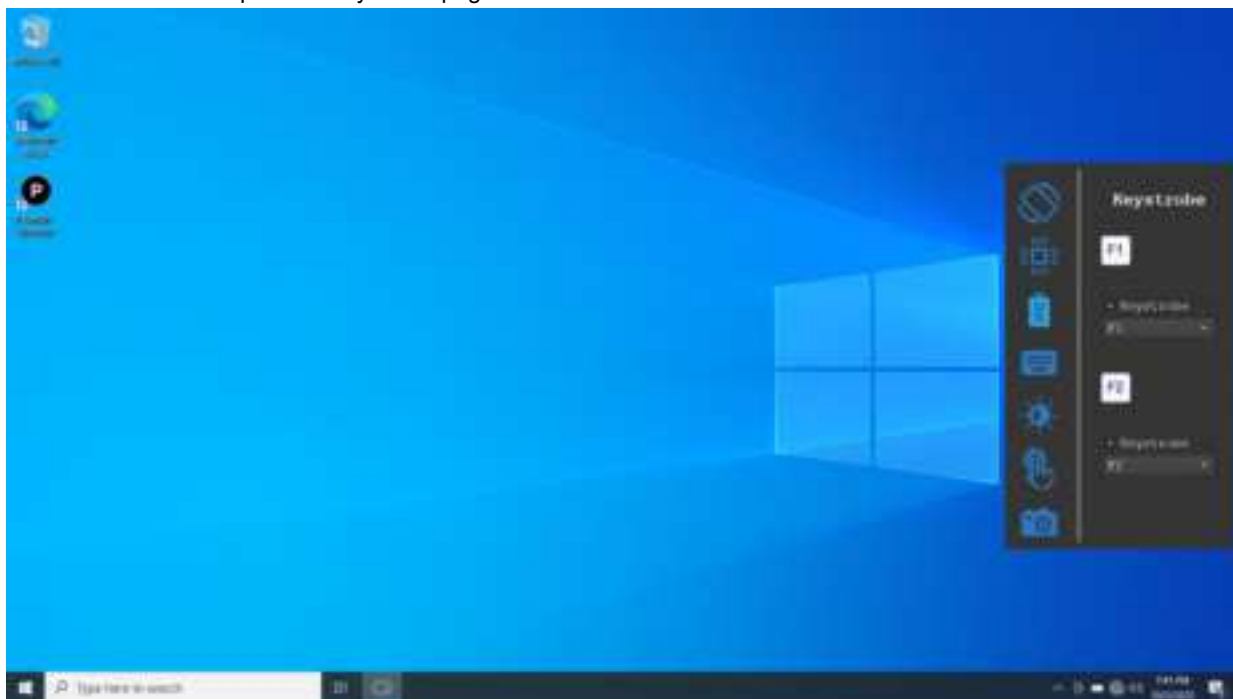
Click the  icon to display the status of the primary and secondary batteries.

The ALGIZ 12XR is equipped with a spare secondary battery, which can be replaced without shutting down.




## Keystrobe

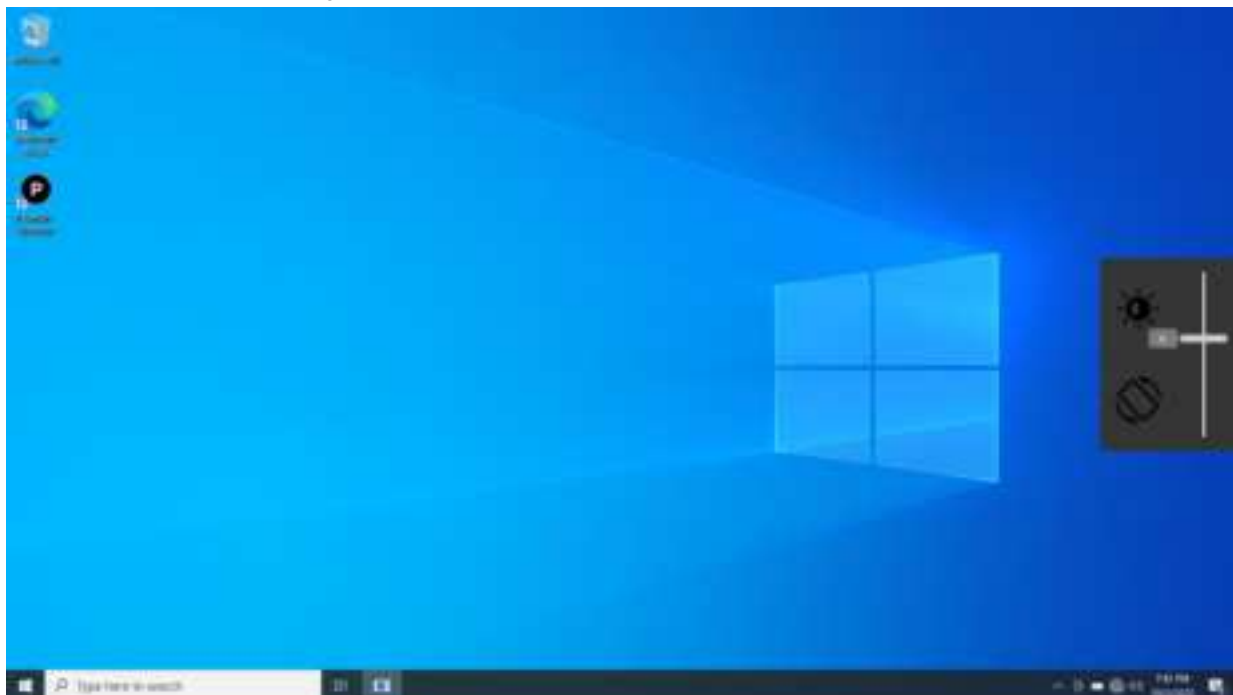
Click the  icon to open the Keystrobe page.




The ALGIZ 12XR panel provides two user-defined function keys. Users can set the physical keys of the panel to any one of F1 to F12 according to their needs.


## Adjusting the LCD Brightness





There are two LCD brightness adjusting modes: automatic dimming mode and manual dimming mode. Click the  button to enter the sub page.



Click the  icon to switch between automatic dimming mode and manual dimming mode. In automatic dimming mode, the LCD will automatically adjust the brightness of the screen based on the background brightness. In manual dimming mode, use the right lever to adjust the brightness.

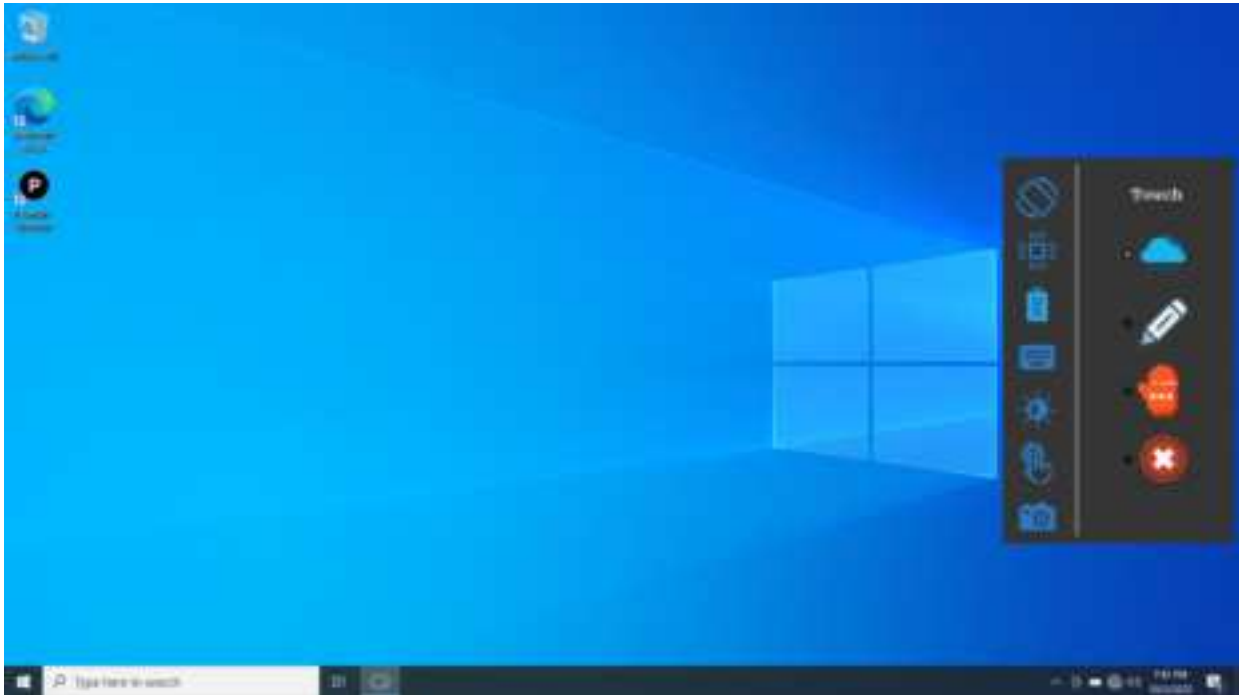
## Touch mode

Click the  button to enter the touch mode setting page.

It provides four modes: rain mode , pen mode , glove mode , and lock mode .


In locked mode, ALGIZ 12XR will not respond to any touch events on the screen.

Reminder: You can also use the Touch mode/lock physical keys on the ALGIZ 12XR panel to change the touch mode.



## Camera

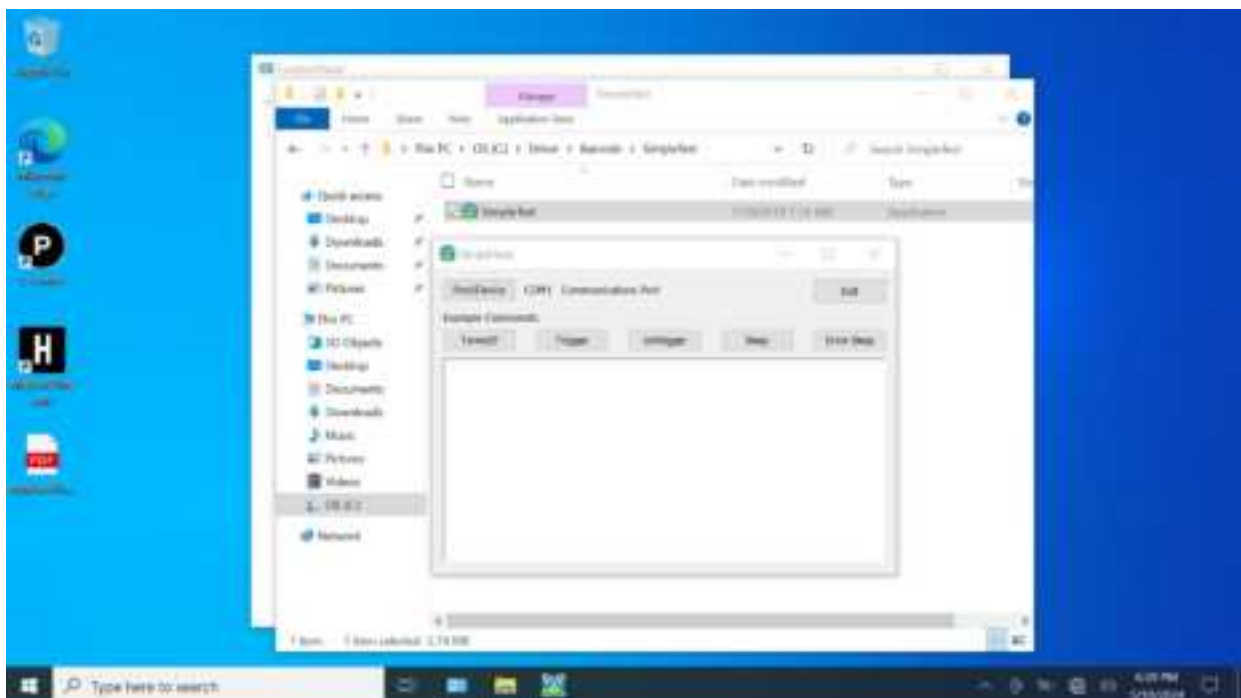
ALGIZ 12XR is equipped with a 5-megapixel front lens and a 12-megapixel rear lens.

Click the  icon to turn on the camera.



## Barcode Scanner

ALGIZ 12XR is equipped with a scanner for linear, 2D stake, 2D matrix and postal types of barcodes. Go to SimpleText. And Click **Trigger** button to start.



## **PART4:**

### **REGULATORY INFORMATION**

## FCC Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device must not cause harmful interference, and
2. This device must be able to withstand any interference received, including interference that may cause undesired operation.

## FCC Warning

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 by one or more of the following measures:

- Reorienting or relocating the receiving antenna.

Increasing the distance between the equipment and the receiver.

- Connecting the equipment to a different outlet from that to which the receiver is connected.
- Consulting the dealer or an experienced radio/TV technician for help.

## Caution:

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

This device is slave equipment, the device is not radar detection and not ad-hoc operation in the DFS band.

## RF Exposure Warning

This device 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 <https://apps.fcc.gov/oetcf/eas/reports/GenericSearch.cfm> after searching on FCC ID: YY3-RAZ12XR



## ISED Warning

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil contient un ou des émetteurs/récepteurs exempts de licence conformes aux RSS exempts de licence d'Innovation, Sciences et Développement économique Canada. Le fonctionnement est soumis aux deux conditions suivantes:

1. Cet appareil ne doit pas causer d'interférences.
2. Cet appareil doit accepter toutes les interférences, y compris les interférences pouvant entraîner un fonctionnement indésirable de l'appareil.

### WiFi 5GHz device

(i) the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems

(ii) the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall comply with the e.i.r.p. limit; and

(iii) the maximum antenna gain permitted for devices in the band 5725-5825 MHz shall comply with the e.i.r.p. limits specified for point-to-point and non point-to-point operation as appropriate. High-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

(i) les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;

(ii) le gain maximal d'antenne permis pour les dispositifs utilisant les bandes 5250-5350 MHz et 5470-5725MHz doit se conformer à la limite de p.i.r.e.;

(iii) le gain maximal d'antenne permis (pour les dispositifs utilisant la bande 5725-5825 MHz) doit se conformer à la limite de p.i.r.e. spécifiée pour l'exploitation point à point et non point à point, selon le cas.

De plus, les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5250-5350 MHz et 5650-5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

### Radio Frequency (RF) Exposure Information

The radiated output power of the Wireless Device is below the Innovation, Science and Economic Development Canada (ISED) radio frequency exposure limits. The Wireless Device should be used in such a manner such that the potential for human contact during normal operation is minimized.

This device has been evaluated for and shown compliant with the ISED Specific Absorption Rate ("SAR") limits when operated in portable exposure conditions. (Antennas are greater than 0mm from a person's body).

### Informations concernant l'exposition aux fréquences radio (RF)

La puissance de sortie rayonnée de l'appareil sans fil est inférieure aux limites d'exposition aux radiofréquences d'Innovation, Sciences et Développement économique Canada (ISDE). L'Appareil sans fil doit être utilisé de telle manière que le potentiel de contact humain pendant le fonctionnement normal soit minimisé.

Cet appareil a été évalué et démontré conforme aux limites de débit d'absorption spécifique ("SAR") ISDE lorsqu'il est utilisé dans des conditions d'exposition portables. (Les antennes sont à plus de 0 mm du corps d'une personne)

## CE Compliance

Hereby, Handheld Group AB declares that the radio equipment type ALGIZ 12XR is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: [ALGIZ 12XR Manuals - Handheld \(handheldgroup.com\)](https://www.handheldgroup.com/Manuals-Handheld)

The device is restricted to indoor use only when operating in the 5150 to 5350 MHz frequency range.



AT	BE	BG	HR	CY	CZ	DK
EE	FI	FR	DE	EL	HU	IE
IT	LV	LT	LU	MT	NL	PL
PT	RO	SK	SI	ES	SE	UK(NI)
IS	LI	NO	CH	TR		

#### RF Exposure warning

This device meets the EU requirements (2014/53/EU) on the limitation of exposure of the general public to electromagnetic fields by way of health protection.

The limits are part of extensive recommendations for the protection of the general public. These recommendations have been developed and checked by independent scientific organizations through regular and thorough evaluations of scientific studies. The unit of measurement for the European Council's recommended limit for mobile devices is the "Specific Absorption Rate" (SAR), and the SAR limit is 2.0 W/Kg averaged over 10 grams of body tissue. It meets the requirements of the International Commission on Non-Ionizing Radiation Protection (ICNIRP).

For next-to-body operation, this device has been tested and meets the ICNRP exposure guidelines and the European Standard EN 50566 and EN 62209-2. SAR is measured with the device directly contacted to the body while transmitting at the highest certified output power level in all frequency bands of the mobile device.

## UK Compliance

Hereby, Handheld Group AB declares that the radio equipment type ALGIZ 12XR is in compliance with the Radio Equipment Regulations 2017 (SI 2017/1206).

The full text of the UK declaration of conformity is available at the following internet address: [ALGIZ 12XR Manuals - Handheld \(handheldgroup.com\)](https://www.handheldgroup.com/Manuals-ALGIZ-12XR)

#### Restriction or Requirement in the UK: 5150 to 5350 MHz indoor-use only.

##### Spectrum and maximum power:

Bluetooth 2400 MHz ~ 2483.5 MHz: 12.95 dBm

WLAN 2400 MHz ~ 2483.5 MHz: 17.09 dBm

WLAN 5150 MHz ~ 5350 MHz: 18.26 dBm

WLAN 5470 MHz ~ 5725 MHz: 19.07 dBm

NFC 13.56 MHz: -12.45 dBuA/m@10m



#### Waste Electrical and Electronic Equipment (WEEE)

This symbol means that according to local laws and regulations your product and/or its battery shall be disposed of separately from household waste. When this product reaches its end of life, take it to a collection point designated by local authorities. Proper recycling of your product will protect human health and the environment.

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## Customer Service

Support is provided by Handheld. Visit our website at [www.handheldgroup.com](http://www.handheldgroup.com) to find updated information about the product. You can also contact your distributor, sales representative or our customer support center for further assistance. If you contact our customer support center please have the following information ready before you call:

Product serial number

Peripheral attachments

Software (OS, version, application software, etc.)

Description of complete problem

The exact wording of any error messages with print screen images

In addition to this, free technical support is available from our engineers during working hours. We are always ready to provide advice on application requirements or specific information about the installation and operation of any of our products. Please do not hesitate to call or e-mail us.

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