

UF R P

InfiRay Outdoor - AFFO Series - Operating Manua!





@'iRoy

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§\$ #g @ |?§} RoHS





AP13/AL19/AL25

IMPORTANT SAFETY INFORMATION

Environmental influences

WARNING!Never point the lens directly at intense heat

sources such as the sun or laser devices. The lens and

eyepiece can act like burning glass and damage the

interior

components. The warranty does not cover damage caused by improper use

Act.

Notes on ergonomics

Caution:Take breaks after prolonged use to avoid wrist pain.

Danger of ingestion

Caution:Do not place this device in the hands of small children. Incorrect

handling can cause small parts to come loose and be swallowed.

Safety instructions for use

- Handle the device with care: rough handling can damage the internal part

batteries.

- Do not expose the device to fire or high temperatures.
- Do not disassemble the device to access the battery. The battery

for exchange by the end user.

- Use only the battery charger that is included. is not

- When operating in cold environments, the
 - battery capacity decreases. This is not a
 - fault and is due to technical reasons.
- The recommended temperature for use of this product is -10° to +50°
- Temperatures exceeding this range will affect product life.
- Do not store the unit for extended periods of time at temperatures below 20°C or above 50°C. This will permanently reduce the battery capacity.
- Always store the equipment in a dry, well-ventilated area.
- If the device is damaged or the battery is faulty, please send the device to our after-sales service for repair.
- Before using this product in a water environment, make sure that the Type-C interface rubber cap on the bottom of the thermal monocular is tightly covered.

Safety instructions for the power supply unit

- Before use, check the power supply unit, cable and adapter for visible damage.
- Do not use any defective parts. Defective parts must be All rights reserved and may not be copied or distributed in any form without written permission

replaced.

- Do not use the power supply in damp or wet environments.
- Use only the original cable supplied with the battery charger.
- Do not make any technical adjustments.

For more information and safety instructions, see Operation Manual supplied. This is also available on our website as a download Center: www.infirayoutdoor.com.

Disposal of batteries



In the European Union, this symbol indicates that The battery used in this product must not be disposed of in household waste and must be collected for disposal separately. When returning used batteries, please use the collection system that may exist in your country.

Materials and substances in batteries can be harmful impact on health and the environment.

By dropping off empty batteries at a recycling facility, you are helping to protect, maintain and improve the quality of our

Please return only dead batteries.

The battery used does not contain mercury, cadmium or lead in quantities exceeding

the limits defined in Directive 2006/66/EC.

User information on the disposal of electrical and electronic equipment (private households)



The WEEE symbol on products and/or attached documents indicates that used electrical and electronic products must not be mixed with normal household waste. For proper treatment, recovery and recycling, take these products to the appropriate collection points

where they will be admitted without charge. In some countries, it may also be possible to return these products to your local retailer when you buy the corresponding new product. Correct disposal of this product serves to protect the environment and prevents possible harmful effects on humans and their environment that

can result from improper handling of waste.

For more detailed information on the nearest collection point, please visit your local authority. In accordance with state legislation, penalties may be

For business customers within the European Union

Contact your dealer or supplier for disposal of electrical and electronic equipment. They will provide you with further information.

Information on disposal in other countries outside Europe

Union

This symbol is valid only in the European Union. Please contact your local authority or retailer if you wish to dispose of this product and request and option for disposal.

Intended use

The device is designed for displaying heat signatures during nature observations, remote hunting observations and for civilian use. This device is not a toy for children. Use the device only as described in this manual. The neither the manufacturer nor the seller shall be liable for any damages incurred as a result of unintentional or incorrect use.

Functional test

- Before use, please make sure that your device has no visible damage.
- Test that the device displays a clear, unobstructed image.

- Check that the device settings are correct. See notes in the Operation section.

Installing/removing the battery

The AFFO series thermal monocular is equipped with a battery. It cannot be removed.

Observation with and without glasses

Thanks to the flexible aperture, the Tube series can be used with or without glasses. In both cases it offers a full field of view.

1Specifications

Model	AP13	AL19	AL25	
Detector specifications				
Туре	Unrefrigerated Vox			
Resolution	256×192	384×288		
Pixel size, μm	12			
NETD, mk	≤ 40			
Frame rate, Hz	25 50			
Optical specifications				
Lens, mm	13	19	25	
Field of view	13,5°×10,1°	13,8°×10,4°	10,5°×7,9°	
Digital zoom, ×	1×, 2×	1×, 2×, 4×		
Dioptres	-3 ~ +1	-7 ~ +2		
Detection range, m				
(Target size: 1.7 m×0.5 m,	675	986	1298	
P(n)=99 %)				
Display Specifications				
Туре	LCOS	OLED		
Resolution	720×540	640×400		
Battery power supply				
Battery type / Capacity /	Built-in li-ion battery/3.6Ah/3.6V			
Output voltage				
Max. operating time	95 75			
(t=22 °C), h*		,		
External power supply	5V (type C)			

Physical specifications			
Protection against intrusion	IP67		
Memory capacity, GB	32		
Wi-Fi / APP	Support (InfiRay outdoor)		
Operational Temperature, °C	-10 ~ +50	-20 ~ +50	
Weight, g	<340	<350	
Dimension, mm	160×60×60	169×60×60	

* Actual uptime depends on Wi-Fi usage density and built-in

in the VCR.

It is possible to make design and software improvements to this product to improve its features without prior notice to the customer.

2 package contents

- AFFO Series Thermal Imaging Monocular
- Neck strap
- Drawstring bag
- Type C data cable
- Micro HDMI data output video cable
- Power adapter
- Lens cleaning cloth
- Operating Instructions





AFFO AP13

Operating Manual



3 Description

The AFFO series thermal monocular is for outdoor use. It can be used day or night or in harsh weather (such as rain, snow, fog etc haze) without being affected by strong light. It does not require any external light source. Even targets hidden behind obstacles (such as branches, grass, and shrubs) can be observed. AFFO Series Thermal Monoculars is lightweight and easy to carry, small size, convenient for one-hand operation, convenient to use and rich in functions. It can be widely used for hunting, searching and locating in various outdoor conditions.

Functions

- 12µm self-developed detector
- High image quality
- Lightweight and compact
- Stadiametric rangefinder
- Long detection distance
- Built-in memory card, supporting photo and video recording
- Built-in Wi-Fi module, supporting app connectivity

Units and controls



Description of buttons

Button	Current status	press	Press and hold	
	Off		Switch on the device	
Power button	Home screen	Enter standby mode (the display is off, and the main chip goes into standby mode)	Turn off the device	
	Standby mode	Wake up the device		
	Menu interface	To return to the home screen without saving	Turn off the device	
	Home screen	Switch the picture mode		
Up button	Menu interface	Scroll up in the menu		
	Off		Press repeatedly to turn on the LED indicator and	
			Release the button to turn off the LED indicator	
Menu button	Home screen	Digital zoom	Enter the menu interface	
Μ	Menu interface	Enter sub-menu / Confirm selection	Save and return to the home screen	
Down button	Home screen	Take a picture	Start video recording	
	Menu interface	Scroll down to the menu option		
	Video recording	Take a picture	Stop and save video recording	
Up + Mbuttons	Home screen		Switching the stadiametric rangefinder function on/off	
Up + down buttons	Home screen		Turning hotspot monitoring on/off	
M + down buttons	Home screen		Sensor calibration	

Charging

The AFFO series comes with a built-in rechargeable Li-ion battery, allowing operation for up to 9.5 hours. When using

the device for the first time, first fully charge it.

- Open the rubber USB cover(10) on the bottom of the device.
- Connect the Type C connector of the data cable to the Type C(12) port on the

the device.

- Connect the second port of the data cable to the power adapter.
- Insert the plug of the adapter into a 110-240V socket.
- When the device is charging, the power indicator(**11**)next to the Type C port(12) is red. Power indicator(11) is on only when charging status. When

the power indicator(11)turns green, the device is fully functional charged.

When the power indicator(**11**) flashes red and green alternately,

indicates that the battery is not charged or the temperature is too high

or too low

• When charging, the icon lights up

appears inside the battery icon

on the display. The illumination icon does not disappear until the data cable is

is completely green 💽 .

. it means

During use, when the battery icon turns red the power level is low, please charge the device in time to avoid data loss.

Safety instructions for the battery

- The nominal voltage of the product is 5V. Please charge the device immediately when the battery is discharged, so that the life of the thermal imaging monocular will not be reduced due to excessive battery discharge.
- Do not charge the device immediately when you take the battery out of a cold environment and into a warm environment. Charge after 30-40 minutes.
- Charge the device at a temperature between 0°C and +40°C, otherwise the battery life will be significantly reduced.
- Never use a damaged or modified charger.
- Do not leave the battery unattended while charging. Do not leave the device with the charger connected to the mains for more than 24 hours after

full charge.

Charging is complete when the inside of the battery icon appears on the display

removed or power is interrupted.

• Do not connect external devices with higher current consumption

permitted levels.

- The battery is protected against short circuit. However, any situation that may
 - short-circuiting must be avoided.
- Do not remove the battery from the device.
- Battery capacity may be reduced when using the battery in the negative pole
 - temperature, that's normal, it's not a malfunction.
- Avoid using the battery at a temperature higher than the temperature in the table, it may reduce the battery life.
- If you do not use the thermal imaging monocular for a long time, charge it
 - the device at least every 2 months and then charge to 40%-50% power
 - store the equipment in a dry and ventilated environment.
- A partial battery charge is necessary if the battery is planned to be idle for a long time. Avid is fully charged or discharged.
- Keep the battery out of the reach of children.

LED light

The AFFO series is equipped with LED light(7). You can quickly turn around

LED light on/off(7) only when AFFO is off

• When the device is switched off, keep pressing the **knob** (5)to

 Please note that when the device is switched on, the LED is lit unavailable.

Action

- Open the lens cover(9).
- Press and hold the Power (6) button for 2s to turn on the thermo monocular imaging.
- When an infrared image is displayed in the eyepiece, the thermal the imaging monocular enters the operational state.
- Rotate the dioptric correction wheel(2) to adjust the resolution icon on the display. The dioptric correction knob is used to adjust the

eyepiece diopters for users with varying degrees of myopia.

- Setting the picture mode: briefly press the top (5) button to set Image palette mode. There are five modes
 - to choose from: hot white (), hot black (),
 - hot red (), pseudo color () and target

highlight () . The icon on the top status bar is updated in real time.

To adjust the brightness of the display: press and hold theM
 (4) button to adjust

display brightness level from level 1 to level 5 in the menu (see



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Menu section for details).

• Shut it down: After using Ray the device, press and hold the **Power (6)**button for 3 seconds to enter power disabled interface with shutdow countdown. when the countdown icon will change to 0, release the button. After saving the current status, the display turns black and the device is turned off.Do not

disconnect the device from the power source while

saving data, otherwise the data cannot be

saved.

Standby: From the home screen, press thePower button (6)briefly press the device standby. And press the Executive (6) button again to wake up the device.

(0) 00:03



Calibration allows you to equalize the detector temperature and eliminate it

image defects (such as vertical bars, phantom images, etc.).

InfiRay Outdoor-Series AFFO-Instruction	c (A) , of the calibrat	tion	www.infirayoutdoor.com
manual (M) and background (b) .	preform, pror	mpt	
Select the desired calibration mode from the	menu appears on the hom	ne screen as	
(see Menu - Calibration).	"The cover lens	s during	
• Mode A (automatic). When you select the a	utomatic calibration mode,		
the			
is automatically calibrated according to th	e		
software algorithm. There is no need to cl	ose the		
lens hood (the internal shutter covers the	sensor). In		
this mode, manual calibration is still supported	d by the		
short circuit			
Press theM (4)+Down (3)button.			
• M mode (manual). Selecting manual calib	pration		
mode only calibrates the sensor manually	. Short		
pressM (4) +down (3)			
buttons to activate shutter calibration with	hout closing the		
lens hood (the internal aperture covers th	e sensor).		
• B (Background) mode. To select the			
background calibration mode, press and h	oldM	■ 2.0× O B	20:35 📼
(4)+		and the second se	N/
down		Martin States	
(3)buttons		STATES OF	AND DESCRIPTION OF THE
on the			
background	All rights reserved and may not be copied or distributed in any form without written per	mission	ns during calibration

calibration" and background calibration will start after 2 s.

1D1 <mark>digital</mark> zoom

AFFO series support for quick 2X base magnification increase

or 4 times, as well as to return to the base magnification.

- From the home screen, press theM button (4) briefly.
 1×, 2× or 4× digital zoom. The zoom status is updated in status bar at the top in real time.
- AP13 supports only 2x zoom, AL19 and AL25 support 2x and 4× zoom.

1F2photography and video recording

The AFFO series is equipped with a video recording function and

photographing the observed image, which is stored on the built-in 32GB

memory storage.

Photo and video files are named by time, so it is recommended to reset

date and time in the menu before using the photo and video functions

(refer to Menu - Date and Time Settings in this manual) or to

synchronize the date and time in the **InfiRay Outdoor app**.

Photography

- From the home screen, briefly press the **(3)**-dollar button to take a photo.
- When shooting is

photo icon flashing under the status bar in the upper left corner Screen. The photo is taken successfully when the icon disappears



 If a red exclamation mark uppears after the photo icon, it means that the memory space is not insufficient, please clear the memory or

move the recording to another storage medium to free up the built-in memory space.

Photos are stored in the built-in storage.

Recording videa

• On the home screen, press and hold the knob (3)button to start



 Then the recording timer starts format HH: MM:
 SS (hour: minute: second) appears at the top right of the display.



During recording, the

supports taking a photo by briefly pressing the **buttons** down **(3)**button. Of course, other operations with the device are supported recording.

- Press and hold (3) again to stop and save the video record.
- All videos and photos are saved to the built-in storage.

Access do memory

When the device is switched on and connected to the computer, it is

The computer recognizes it as a flash memory card that is used

- Connect the device to a computer using a Type-C data cable.
- Turn on the device for operation and the USB function window will appear on the screen.
 - **Charging only**: If you select this option, you can power the

device via computer and charge the built-in battery at the

same time.

• **Read data:**Select this option, you can view the recorded videos and



photos on your computer and charge the built-in battery the same time.

- **USB debugging:**Select this option, you can update the device program through the host computer and charge the built-in battery pack at the same time.
- Delect the Read Data option using the Up (5) /Down (3) button and to access the device's memory and make copies of images and videos.

• Double click on "my computer" on the desktop - select USB

flash drive and double-click to open the storage area.

- There are four components which are .MISC, LOCK-CIF, PHOTO-CIF and VIDEO-CIF.
- Recorded videos and photos are saved by time in the VIDEO-CIF and PHOTO-CIF folders.
- You can select the desired files or folders to copy or delete operations.

Not

- Photography and recording use the save before distribute mode. This means that even if there is no photo or video file, the memory is full and this is normal.
- Do not delete files other than the VIDEO-CIF and PHOTO-CIF
 folders. If you accidentally delete any of these files, you must
 format the memory before using the device.
- The maximum length of a video recording file is 5 minutes. After more than 5 minutes, the video is automatically uploaded to a new file.
- The videos and photos taken are stored by time, so if a file is removed from the list, its number is not taken over by another file.
- Interface icon information (status bar, icons, and menu) is not displayed in the video or photo you take.

<mark>13</mark> Video output

The AFFO series supports analog video output and connection to an external device View.

- Open the rubber USB cover(**10**)on the bottom of the device.
- Connect the Micro HDMI connector of the HDMI data cable to the Micro HDMI port**(13)**on the device.
- Connect another port of the HDMI data cable to the external display.
- The image can then be played back on an external display.
- Please note that the device cannot enter standby mode when the HDMI
 Inserted.

14 Menu functions

- From the home screen, press and hold theM (4) button to enter the menu interface.
- Press the Up (5) / Down (3) button briefly to switch between menus
 Options.
- Menu navigation is cyclical: as soon as the last menu item of the first when you get to a card, the first menu option of the second card is triggered.

- Edit the current parameters or enter the submenu using the shortcut printM (4)button.
- In all menu interfaces, briefly press thePerformance (6) button to return to Home screen .
- The menu automatically exits to the home screen after 15 seconds of inactivity.



Options and description of the offer

	Turning Wi-Fi on/off
Wi-Fi	Press and hold theM (4) button to enter the menu interface.
-	• SelectWi-Option menu with Up (5) / Down (3)button.
÷.	Briefly press theM (4) button to switch Wi-Fi on/off.
	When Wi-Fi is enabled, an icon appears in the status bar in the top left corner of the screen.
	Turning PIP on/off
	• Press and hold theM (4) button to enter the Menu.
	SelectPIPoption menu with Up (5) / Down (3)knob.
PIP	Briefly press theM (4) button to turn the PIP function on/off.
	When PIP is turned on, a small window and a blue box will appear on the screen. The image in the separate window is
	2x enlarged image captured by the blue frame on the main image.

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- Press the button briefly to display the relevant device informationM (4) knob.
- This item allows the user to view the following information: product model, SN number, PN number, hardware version, software version and kernel version.
- pressPerformance (6) to return to the home screen.

15 Stadiametric rangefinder

The AFFO series supports stadiametric rangefinder functionality, allowing user to estimate the approximate distance to an object of known size.

- From the home screen, press and hold theNahor (5) + M (4)buttons at the same time to enter the stadiametric rangefinder mode.
- When this function is enabled, two horizontal lines are displayed for measurement
 - the icons of the three predefined objects appear on the display and the measured values are shown on the right side.
- There are three pre-defined target values:
 - Deer: 1,7 m tall
 - Wild boar: 0,9 m tall
 - Hare: 0.2 m tall

 Find the objectv in the middle of the measurement

lines.

Extend or reduce the measuring line to ensure

that the measured object is

within a series with a short or

long press of the UP (5) / DOWN (3) button.

- When you adjust the measurement line width, the rangefinder the data on the right-hand side changes accordingly.
- Press and hold top (5)+M (4)to exit the metric mode again rangefinder function.



Info Č	AP13	
> ()	SN: 3F1E PN: 2J1-1001-01-A HW: V1.1 SW: V1.9t CORE: 0811	
100		

16 Hotspot monitoring

The AFFO series provides a hotspot tracking feature that allows you to

track the hottest object in

image.

 From the home screen, press and hold theUp (5) + Down
 (3)buttons to enable the hotspot monitoring feature.



• A blue box will appear

automatically take a picture and follow the hottest object.

Press and holdUp (5) + Down (3) press again to exit the hotspot tracking function.

17 PIP function

The PIP (picture-in-picture) function allows you to see both the picture in a specific window and the main picture at a larger scale. This window displays a portion of the image that is enlarged to 2x in a specific area of the main image.

- interfaces.
- Use to select PIP Up **(5) / Down (3)** knob.
- Turn on the PIP function using short press theM button (4) knob.



- When PIP is turned on, a small window and a blue box will appear on the screen. The image in the separate window is 2x magnified the image that is captured by the blue frame in the main image when the laser is indicator is on, zoom in with the laser cursor in the centre.
- When the main image is enlarged by briefly pressing theM button (4)., the PIP image is synchronously enlarged twice.
- For example, when the magnification of the main image is 1×, 2×, 4×, the corresponding magnification of the PIP is 2×, 4×, 8×.



The AFFO series is a built-in Wi-Fi module for wireless communication mobile device (smartphone or tablet) via Wi-Fi.

From the home screen, press and hold theM button (4).to enter the menu

- Press and hold theM (4) button to enter the Menu.
- Use the button to select the Wi-Fi menu optionUp (5) / Down (3)button.
- Press the Wi-FiM (4)button briefly to turn on/off.
- After activating the Wi-Fi device, search for the Wi-Fi signal using a name such as AP13_XXXXXX on the mobile device, including

XXXXXX is a 6-bit serial number composed of numbers and letters.

- Select this Wi-Fi, enter the password on your mobile to set up the connection. The initial password is 12345678.
- After a successful Wi-Fi connection, you can control the device via mobile apps.
- LaunchInfiRay Outdoor app on your mobile device (see section Updates and InfiRay Outdoor).

Setting the name and password of		-:	♥ 14:25
Wi-Fi AFFO name and password	÷	WiFi setting	
	If set ssid then	need reboot device	
series can be reset in the InfiRay Outdo	Enter new s		Submit
application.	If set password then need reboot device Enter new password Submit		
When connected to a mobile device	Send phone's t	ime to device	
	Synchronize time		
locate and click on the "Settings" icon. V	v	ViFi firmware upgrac	le
aInfiRay Outdoorobrazo screen			

enter the settings interface.

- Enter and submit the new Wi-Fi name (SSID) and Password in the text box.
- After sending the change, reboot the device and assume the new name and password effect.

 After the factory reset, the Wi-Fi name and password are displayed also restored to factory settings.

19 Updates and InfiRay Outdoor

Supports **AFFOInfiRay Outdoortechnika** thermal camera series, that allows you to transmit the image from the thermal imager to the smartphone or tablet via Wi-Fi in real-time. You can find detailed instructions onInfiRay **Outdoor** Officer Web sitewww.infirayoutdoor.com. The design of the AFFO series provides the possibility of software updates. Updating is possible via **theInfiRay Outdoorapplication**. In addition, it is feasible to download and update the software from the official website:

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About InfiRay Outdoor

Can you getInfiRay Outdoor
 applications on the official website:
 www.infirayoutdoor.com; Or
 SearchInfiRay Outdoorin the App
 store to download the app; or scan

the following QR code to download.

- Once the installation is complete, open it.
- If your device was connected to a mobile device, turn it on mobile data on your mobile device. After the device connects to the internet,

you will automatically be prompted to update. ClickNow

Download the latest version immediately or clickUpdate later.

InfiRay Outdoorautomatically saves the last connected device. Therefore, as soon as you connect to InfiRay Outdoor before, it will automatically detect the update in the background, even if the device is not connected to your phone or laptop. If an update is available and the mobile device is accessing the internet, you can download the update first. Then, when the device is connected to the mobile device, the version will



• After the update is installed, the device will be rooted.



It is recommended to carry out a technical check before each use

monocular. Check the following:

- Appearance (there should be no cracks on the body).
- Condition of the subject lens and eyepiece (no cracks, greasy spots, dirt or other deposits).
- Battery status (should be charged).
- Controls/buttons should be functional.

21 Legal and regulatory information

Frequency range of the wireless transmitter module:

WLAN: 2.412-2.472 GHz (for EU)

Wireless transmitter module power<20dBm (EU only)

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IRay Technology Co., Ltd. hereby declares that the AFFO series of thermal imaging monoculars complies with

Directives 2014/53/EU and 2011/65/EU.
Information is available at: www.infirayoutdoor.com. This
equipment can be operated in all EU Member States.

FCC Statement

Labelling requirements

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This equipment shall not cause harmful interference and (2) this equipment shall accept any interference received,

including interference that may cause undesired operation.

Information for users

Any changes or modifications not expressly approved by the Party the compliance officer could revoke the user's authority to operate facility.

Note:The manufacturer is not responsible for any interference to the radio or television caused by unauthorised modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

Note:This equipment has been tested and found to comply with the limits for a Class B digital device under Part 15 of the FCC Rules. These limits are designed to provide adequate protection against harmful interference in residential installation. This device creates the use and can emit radio frequency energy and, if not installed and used in 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 causes harmful interference to radio or television reception, which can be determined by when turning the device off and on, the user is advised to try to fix interference from one or more of the following measures: - Reorient or relocate the receiving antenna. - Increase the distance between the device and the receiver. - Connect the device to an outlet on a circuit other than the one

to which the receiver is connected.

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This device complies with the FCC's limits for exposure to radio frequency radiation uncontrolled environment.

Operation on the body

This device has been tested for typical body support operations. In accordance with

RF exposure requirements, a minimum distance of 0.5 cm must be maintained between the user's body and the handset, including Antenna. Belt clips, holsters and similar third party accessories used by the company this device should not contain any metal parts. Body accessories that do not meet these requirements may not comply with RF exposure requirements and should be avoided. Use only the supplied or approved antenna.

We, IRay Technology Co., Ltd., hereby declare that this product has been tested in accordance with the applicable FCC rules under the most accurate measurement standards possible, and that all necessary steps have have been adopted and are in force to ensure that production units of the same

the facility will continue to comply with the Commission's requirements.

Power adapter manufacturer

Shenzhen Simsukian Electronics Technology Co., Ltd.

Add: Simsukian Industrial Park, Jiayi Industrial Zone, Guihua Village, Guanlan Street, Longhua District Shenzhen PR China Model number: SK22G-0500200Z Input: 100-240V~50/60Hz, MAX/0.35A Output: 5.0V 2.0A 10.0W