P3000 Series

User Manual

LINKFLOW

Copyright

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Registered Trademark Rights

Product names, company names, etc. mentioned in this user manual are trademarks or registered trademarks of their respective companies.

1.Safety Precautions

<u>Disclaimer</u>

Please read the disclaimer carefully before using. Using this product means that you acknowledge and accept the disclaimer below. By using this product, you acknowledge and agree that you are solely responsible for your actions and the results thereof when using the product. You agree to use the product only for proper and lawful purposes and places. You understand and agree that LINKFLOW Co., Ltd. (hereinafter referred to as LINKFLOW) is not responsible for any misuse, results, damage, injury, punishment or other legal liability that arises directly or indirectly from your use of the product. If you find a problem while using the product, stop using it immediately. LINKFLOW reserves the right to make the final explanation and revision of liability within the scope of local laws and regulations. For additional warranty policy, please refer to the ' Warranty Policy ' section in the manual.

1. Malfunctions and failures due to incorrect use of the product (e.g., operating in a manner not specified in the user manual)

2. Malfunctions that occur after repair or disassembly by a repair service provider other than those designated by LINKFLOW.

3. Malfunction due to natural disasters, earthquakes, lightning, abnormal voltage, etc.

4. Malfunction due to accidents such as contact with salt, solutions (e.g. rainwater, juice, alcoholic beverages, etc.) or other liquids, sand or dust entering the camera or product, excessive pressure, etc.

5. Malfunction due to improper storage (storage not specified in the user manual), mold, improper management, etc.

6. Inconvenience or loss caused when images and data are not displayed due to causes including product malfunction and problems

7. Any problems, losses, damages, or inconveniences caused by the system combined with a separate device other than the product and cradle .

8. If a claim for damages or a lawsuit is filed due to a violation of personal information caused by recorded video and data

9. Loss of registration data due to loss of authentication information including administrator password, product initialization, etc.

This product is a camera with a built-in battery, designed to be worn on the body for capturing images. It cannot record or save videos for all accident situations. Videos may not be recorded properly due to circumstances where the sensor does not operate, product settings, or the product's condition.

· Video will not be recorded until you press the record button (if pre-recording is not activated). Be sure to turn on the power and then press the record button to start recording.

· LINKFLOW is not responsible for any damages resulting from an accident, and does not provide support for any consequences arising from an accident.

· Product performance and specifications may vary depending on the firmware version, so be sure to update to the latest firmware.

· This manual may contain typographical errors or technical inaccuracies. Also, the contents of this manual may be changed without prior notice for convenience of use.

Safety precautions for products

l Do not poke your eyes, ears, or other body parts with the product, or put the product in your mouth. This may result in serious bodily injury or suffocation.

l Ensure that the product does not come into direct contact with your skin by wearing clothing before use. There is a risk of low-temperature burns if used in high-temperature environments or by individuals with reduced circulation or sensitivity issues.

l Ensure that the product or AC adapter does not come into direct contact with your skin during use. Heat generated during long periods of use may pose a risk of low-temperature burns.

l If the AC adapter or any additional accessories feel excessively hot, immediately stop using them. Continued use may result in low-temperature burns or damage to the product.

l If charging is performed in a high temperature environment or the product overheats, charging may be stopped for the user's safety.

l Please operate/charge/store the product within the temperature range below. If the temperature range is exceeded, the product and battery may be damaged, resulting in reduced performance or shortened battery life, and may even cause fire.

- Operating temperature: 14˚F to 122˚F (-10˚C to 50˚C)
- Storage temperature: -4˚F to 113˚F (-20˚C to 45˚C)
- Charging temperature: 32˚F to 113˚F (0˚C to 45˚C)

l Do not place the product near heat sources such as heating appliances or open flames, where there is a risk of overheating. This may cause the product to overheat or cause a fire.

l Do not touch the product, power cord, plug, or outlet with wet hands or other body parts. There is a risk of electric shock.

l Do not touch the product when it is plugged in or in an area where there is lightning or rain accompanied by thunder or lightning. Refrain from using the product. There is a risk of electric shock.

l Do not use the product in areas where flammable gases are present. There is a risk of electric shock, explosion or fire.

l Do not force foreign substances or liquids into the product.

l Separate components, batteries, and cradles must be genuine products specified or provided by LINKFLOW . Using unauthorized components may shorten the life of the product, or cause damage to the product or injury to the user due to overheating, fire, or explosion.

l LINKFLOW cannot be held liable for any issues arising from improper operation during the update process, and repairs may incur additional costs.

l Please ensure that important data is backed up separately. LINKFLOW assumes no liability for any damages resulting from data loss.

l The built-in memory is consumable . It is recommended to replace it after use according to its operating life . The replacement cycle may vary depending on the usage environment and conditions. When replacing the built-in memory, be sure to contact your sales agent or official customer service center.

l When using wireless network functions, proper security settings are essential. However, LINKFLOW cannot be held responsible for any security issues that may arise due to the network environment or security settings associated with the use of wireless networks.

l When using this product, users must comply with laws related to privacy protection and portrait rights. Unauthorized surveillance, covert use, or infringement of others' personal information is prohibited by law. Any violations may result in legal responsibility for the user or administrator.

l Charge the product using the cradle or a 5.0V USB-C power adapter. Using other methods to charge the product may result in damage or a risk of fire.

l Please be careful not to expose the product to direct sunlight.

l Do not store or use the product for long periods of time in hot weather or inside a vehicle exposed to direct sunlight.

l Do not use damaged power cords or plugs, or loose outlets. Unstable connections may result in fire or electric shock, and may prevent proper charging.

l Do not modify or disassemble the product arbitrarily. There is a risk of fire or electric shock.

l Be careful not to damage the lens. The lens can be easily broken or damaged.

l Do not block the product's ventilation holes with your body or other objects. This may cause the internal temperature of the product to rise, resulting in fire or smoke.

l After using the product, please clean off any dust or foreign substances.

l Be sure to turn off the power when cleaning the product.

l Do not use organic solvents such as alcohol or thinner to clean the product.

l When cleaning the product, wipe gently with a soft cloth.

l Do not place the product near strong magnetic materials. In particular, do not use or store it in areas with strong magnetic fields, such as high-voltage transmission towers. This may cause damage to the product or data loss .

l If water gets into the product microphone, audio quality of the microphone may degrade until the water dries completely.

l Do not touch the charging terminals(USB-C Port). This may result in electric shock or damage to the product.

l Do not store the product in areas with corrosive chemicals.

l When using the SOS function, you may be exposed to a temporarily loud alarm sound, a rapidly flashing bright flashlight, and LEDs. Please exercise caution, as this may cause hearing damage or medical conditions or symptoms.

l When managing or using this product, do not use passwords or information used on other web services or devices. This may cause information leakage. Also, please be especially careful not to expose the authentication information to third parties.

l When installing the product, always consult an authorized distributor or retailer. Failure to do so may result in malfunction or damage to the product.

Precautions regarding transmission

This product uses radio waves in the 2.4GHz/5GHz band. When using this product, you do not need a license related to a radio station, but please be aware of the following.

l Do not use the product near vehicles, hospitals, or medical devices that are affected by radio frequency (RF) waves. If you use medical products personally, contact the medical product manufacturer to confirm whether the product is safe from radio frequency (RF) energy before use.

l Do not use this product in close proximity to medical devices such as pacemakers. If this product is used in close proximity to medical devices such as pacemakers, radio waves generated by this product may affect the medical devices.

l The use of electronic devices on board an aircraft may affect the aircraft's electronic navigation equipment. When on board an aircraft, follow the airline's regulations and the instructions of the flight attendants. Even if the use of electronic devices on board is permitted, always turn them off.

l Electronic systems in automobiles may be affected by radio frequency (RF) energy from the product and may not function properly. Contact the automobile manufacturer to determine whether the product is safe from radio frequency (RF) energy before use.

l Do not use it near a microwave oven. If this product is used near a microwave oven, radio interference may occur, making communication difficult or reducing communication speed.

l If there is a wall or partition made of metal, steel, or concrete between this product and the wireless device, communication may become difficult or the communication speed may decrease. If this situation occurs, please change the installation location of this product or the wireless device or remove the partition.

l Do not use near premises radio stations for mobile identification and specific low-power radio stations. The frequency band used by this product includes premises radio stations (radio stations requiring a license) for mobile identification used in factory production lines, in addition to industrial, scientific, and medical devices such as microwave ovens.

l Before using this product, check for nearby mobile radio stations and specific low-power Make sure that no radio stations or amateur radio stations are in operation. If this product causes harmful interference to an on-site wireless station for mobile device identification, immediately stop using the product, contact the place of purchase or LINKFLOW, and inquire about measures to avoid interference (such as installing a partition).

Network Security Precautions

When using the product by connecting it to a network, in order to prepare for network security issues, if the product and cradle are connected to a network , the system operating it must be regularly checked for viruses and malicious codes, and users must take precautions such as using antiviruses. This is not provided by LINKFLOW. In particular, please pay attention to the following security issues.

l Information leak or theft through this product device

l If the product is used illegally for purposes other than its original purpose

l Malicious network interference or disruption of this product.

Precautions when handling batteries

l If the following phenomena occur, please stop charging and using immediately.

- If there is smoke, discharge, or odor

- If it swells, deforms, or becomes discolored

- Abnormally overheated

l If you notice any abnormalities, immediately move the product to an outdoor concrete floor away from buildings or flammable materials. Also, do not recycle the battery, but be sure to read the precautions and dispose of it immediately.

l Store out of reach of infants and young children.

l Do not use any batteries other than the official battery. Using other batteries may result in battery explosion, leakage, product damage, and fire.

l Never remove the battery from the product, short-circuit it , or expose it to fire. There is a risk of battery explosion, leakage, or fire.

l Do not shock or shake the battery. If the battery is subjected to strong shock, there is a risk of battery explosion, leakage, or fire.

l Do not attempt to modify, disassemble, or replace the battery. Doing so may result in a risk of fire or electric shock.

l In cold environments, the battery usage time may decrease even if the battery is fully charged.

Precautions for using flashlight

l Exposure to intense light may cause medical conditions or symptoms. Please exercise caution.

l Using the flashlight too close to a person's eyes may temporarily affect vision. Ensure that the light does not directly face people, especially infants and young children.

l Avoid direct contact with or touching the flashlight or its surrounding areas during or after use. There is a risk of burns.

l Keep the flashlight LED clean and free from contamination. If it becomes contaminated, smoke or discoloration may occur.

l Do not use the flashlight function in areas where flashlight use is prohibited.

Dispose

- When disposing, do not throw it away in a regular trash can, but be sure to follow local disposal regulations.

- When disposing of this product, be sure to check the data on the product as stored data may cause information leakage.

Software License

l This product contains software licensed under certain license terms.

l This product contains some open source software. We are unable to respond to inquiries about
the source code used.

2. Components

- Product (camera)
- Wearable Clip
- User manual

[NOTE]
- The included components are subject to change depending on the manufacturer's circumstances and the model.   - The multi cradle is sold separately.

3. Layout

4. Quick Start Guide

4-1. Button operation

Button name	Press	Default operation	QR code scan	Sleep mode	Recording	Group mode Host	Group mode Crew	Settings
Power button	Short	X		Sleep mode ON/OFF	X			
	Long (3 sec)	Power ON/OFF			Power ON/OFF			
Multi button	Short *2	Exit group			Exit group			
	Long (5 sec)	Silent mode ON/OFF			Silent mode ON/OFF			
Record button	Short	Start/Finish recording	X	X	Start/Finish recording	Start/Finish group recording		Start/Finish recording
Display button	Short	Check information screen			Check recording settings (RES, FPS, BPS, IQ+)			Go to the next
	Long (1.5 sec)	Enter the settings	Skip scan		X			Select/

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						Deselect
Flashlight button	Short	Flashlight ON/OFF	X		Flashlight ON/OFF	
	Long (5 sec)	SOS Activation			SOS Activation	
	Long (3 sec)	SOS Termination			SOS Termination	

4-2. Checking the Display

Standby screen	2024.12.31 AM10:30 JOHN	Information screen	100 0 UHD 30℃	Cradle connection screen	30 SENDING ...
Recording screen	00:00:03	Setting screen	USER VIDEO MODE	Error screen	ERR:112 FULL

4-3. LED

		Status LED	Recording LED	Flashlight
	Power on	Rotating Blue	X	Does not activate without specific operation.
	QR code scan	Blinking Red	X	
Standby status	Pre-Recording activation	Solid Blue	X	
	Pre-Recording deactivation	X	X	
Charging		Blinking Blue	X	
Charging completed		Solid Blue	X	
Recording/Group recording		Blinking Red	Solid Red	
Event recording		Rotating Red	Solid Red	
SOS activation		Blinking Red	X	Blinking
Silent mode		X	X	Does not activate without specific operation.

Flashlight activation	X	X	On
Error	Solid Red	X	X

5. Charging the Product

Be sure to fully charge the product before using it for the first time after purchase or after it has not been used for a long period.
When the product is connected to the charger while powered off, it will automatically turn on.

5-1. Charging with the Dedicated Cradle

1. Insert the product into the cradle, ensuring it is properly aligned.
2. The charging icon and the current battery level will be displayed as a number on the product.
   ( )
3. The Status/Recording LED will display as follows depending on the product's charging status:

Charging status	Status LED	Recording LED
Charging	Blue blink	Off
Charging completed	Blue solid	Off

5-2. Charging with a USB Cable

1. Connect the USB cable and charging adapter, plug it into the USB-C port at the bottom of the product.
2. When the charger is connected, a charging icon ( ) will appear in the battery section of the standby screen.
4. The Status/Recording LED will display as follows depending on the product's charging status:

Charging status	Status LED	Recording LED
Charging	Blue blink	Off
Charging completed	Blue solid	Off

[NOTE]

- If the voltage of the charging adapter is low, charging may take longer or may not function properly.
- It takes approximately 4 hours for the product to be fully charged, and the time may vary depending on the charging environment and adapter specifications.
- If the product is completely discharged, it may not turn on immediately even after charging begins.
- When using the multi cradle, the 'Connect Server' or 'Disconnected' screen may appear even if the Ethernet connection is not established.

6. Using Wearable clip

6-1. Attaching Wearable clip

1. Align the clip with the groove on the back of the product and slide it downward.
2. Push until you hear a 'click' sound, and ensure it is securely attached to the product after assembly.

6-2. Detaching Wearable clip

1. Hold both the metal part at the top of the clip and the outer handle part.
2. Push the two parts inward while pulling out the clip upward to detach it.

[CAUTION]
- When attaching or detaching the clip, be careful not to get your fingers or any part of your body.   - When attaching or removing the clip, avoid touching the lens or applying excessive force. If the lens becomes smudged during the process, it may affect the clarity of the recordings. Please clean the lens with a soft cloth before starting to record.   - Before use, ensure that the clip is securely attached to the product.

7. Power

Power On

1. Press and hold the power button until it vibrates once.
2. The status LED turns blue and starts rotating clockwise.
3. When the product powers on completely, it vibrates, and the QR scan screen appears on the display.
4. You can access the standby screen by scanning the designated QR code or by pressing and holding the display button.

Sleep Mode

1. While the power is on, briefly press the power button once.
2. All displays and LEDs turn off.
   *While in Sleep mode, it may consume more power than turning off the product completely, but you can quickly turn on and off the product, and the battery consumption will be minimized. If you use the product frequently or take short breaks, we recommend using it.

Power Off(If not used for a long time)

1. While the product is powered on, press and hold the power button until it vibrates once.
2. The status LED will rotate clockwise in blue, and the product will vibrate once before powering off.

[NOTE]

- To resume using the product from Sleep mode, briefly press the power button once.
- During recording, while connected to a network, or in group mode, the product will not enter sleep mode.
- Connecting the charger while in Sleep mode will exit the mode.
- If the product is powered off, it will turn on when connected to a charger or cradle.

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8. QR Code Scan

1. When the product is powered on or removed from the cradle, a user registration/QR scanning alert will appear for enhanced security.
2. Please scan the QR code provided by the administrator/manager with the product's lens.

[NOTE]

- If you do not proceed with scanning the QR code, press and hold the display button. (User information will not be registered.)
- If you try to scan the code too close to the product, it may not be recognized properly.

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9. Recording

- When taking a video, LEDs, vibrations and sounds will notify the situation.

Recording a video

1. Briefly press the record button to start recording a video.
   While recording a video, the Recording LED will be displayed.
2. To finish video recording, briefly press the record button again.

Check set values during recording

1. While recording, briefly press the display button once. Recording setting information is displayed.
   *Information displayed: RES(video resolution), FPS(frames per second), BPS(bitrate), IQ+(Image quality enhancement)

Pre-Recording

You can save up to 120 seconds of video prior to starting recording to ensure you don't miss important moments.

[NOTE]
✔ Pre-recording duration in the settings (60 seconds, 90 seconds, 120 seconds). ✔ Pre-recording starts as soon as the pre-recording setting is activated.

Event Recording

When event recording is enabled in the settings, recording will automatically start if an abnormal impact or similar event is detected, even without pressing the record button. Event recording lasts for one recording interval.

10. Network

Network Activation/Deactivation

1. To activate or deactivate the network, please adjust the settings menu.
   *How to set: Settings > Network > On/Off

11. Settings

Entering/Using Settings

1. Enter the settings
   On the standby screen, press and hold the display button.

2. Go to the next
   Briefly press the display button once to go to the next menu.

3. Select/deselect
   Press and hold the display button once to select or deselect it. If you want to deselect the applied option, press and hold the display button again.

4. Go to standby screen
   Select the home icon(🏠), it goes to the standby screen.

5. Return to previous screen
   Select the previous icon(←) it returns to the previous screen.

12. Group Recording

Group Connection

Before using the group function, prepare the products to be grouped by turning power on.

1. Activate the network of products.
2. Select the channel to join in the Settings > GROUP menu. (Be sure to select the same channel.)
3. Set roles: Host- only 1 member, Crew- up to 4 members.

Difference Between Host and Crew

Classification	Host	Crew
Number of selectable products	1	4
Automatic recording of event detection	Unavailable during group mode	Unavailable during group mode
Start group recording	Available	Unavailable
Finish group recording	Available	Unavailable
Exit group	Available	Available

[NOTE]

- Channels can be selected from 1 to 9, and products to be grouped must join the same channel.
- Connecting with a time difference may be difficult.
- The host will attempt to connect to the crew for up to about 2 minutes, and if the products to be connected to are far away from each other, it may be difficult to connect.
- The host's standby screen displays the number of crew members currently connected to the same channel, while the crew's standby screen does not display a number of members.
- If the host and the crew members are separated by a certain distance or longer, or if there is a

structure, such as a wall, that affects the network in-between, the connection may be automatically disconnected. In this case, the host will attempt to reconnect for approximately 2 minutes.

- If you don't want to regroup the product again, exit the group after the group mode. Unless, it will automatically regroup when the network is activated.
- If the host exits the group, the entire group connection is terminated.

Disconnecting Group Manually

1. When disconnecting a group, double press the multi button.
2. When 'GROUP EXIT?' prompted on the display screen, select O or X.
3. Once disconnecting a group manually, if you want to reconnect to the same group, you need to connect again as the Group Connection instruction.

Group Recording

If products are connected in a group, the host can start group recording.

Certification

KC

 적합성평가표시

신청자	링크플로우주식회사
제조자/제조국가	링크플로우주식회사/ 한국
기자재 명칭	특정소출력 무선기기(무선데이터통신시스템용 무선기기)
모델명	LF-P3000
전압(배터리)	5V/2A
사용온도	섭씨 -10~50도

무선사양

무선 LAN	802.11b/g/n (대역폭: 20MHz): 2412~2472 MHz
	802.11n (대역폭: 40MHz): 2422~2462 MHz
	802.11a/n/ac (대역폭: 20MHz): 5240 MHz
	802.11n/ac (대역폭: 40MHz): 5230 MHz
	802.11a/n/ac (대역폭: 20MHz): 5180~5220 MHz
	802.11n/ac (대역폭: 40MHz): 5190 MHz
	802.11ac (대역폭: 80MHz): 5210 MHz
	802.11a/n/ac (대역폭: 20MHz): 5745~5825 MHz
	802.11n/ac (대역폭: 40MHz): 5755~5795 MHz
	802.11ac (대역폭: 80MHz): 5775 MHz
Bluetooth BDR/EDR/LE 1Mbps, 2Mbps	2402~2480 MHz

VCCI

この装置は、クラスＡ機器です。この装置を住宅環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。　VCCI－A

FCC

This device complies 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.

CAUTION : Any Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

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:

- Reorient or relocate the receiving antenna.
- 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 radio/TV technician for help.

The device has been evaluated to met general RF exposure requirement. The device can be used in portable exposure condition without restriction.

This device was tested in compliance with FCC RF Exposure limit. (5 mm distance from human body (limit 1.6 W/kg @ 1g SAR))

About LINKFLOW Customer Service

[Operating hours]
10:00 AM - 12:00 PM, 2:00 PM - 5:00 PM (GMT +09:00
*Operates from Monday to Friday, excluding legal holidays in Korea.

[Email address]
help@linkflow.co.kr

※ If you want to claim after-sales service/exchange/return of the product, please contact customer service in advance. It may be difficult to proceed with any services that have not been confirmed with our customer service.

*The contents of this manual are subject to change without prior notice.

Warranty Policy and Warranty Card

Warranty Policy
This warranty gives specific legal rights only to the person who purchased the product.

The product is warranted against defects in materials and workmanship under normal use and service for a period of one (1) year from the date of original purchase. Defective parts or a defective product returned to LINKFLOW, and proven to be defective upon inspection, will be repaired or exchanged for a new or refurbished product. If the product is refurbished, the warranty period will not be renewed and will remain as the original period. To receive warranty service, the purchaser must contact LINKFLOW for problem determination and service procedures.
Warranty service can only be performed by LINKFLOW. The original dated bill of sale and warranty card must be presented to LINKFLOW or authorized service center.

To obtain service under this Warranty, you must return the product to LINKFLOW in an adequate container for shipping to prevent the product from being damaged, accompanied by a sales receipt and warranty card which can prove the purchase. The warranty period is not extended if we repair or replace the product. Also, it does not extend to any subsequent owner or other transferee of the product. We may change the availability of this warranty at our discretion but any changes will not be retroactive.

The warranty covers all defects encountered in normal use of the product and does not apply in the following cases.

1. Malfunctions caused by misuse(e.g. operating other than as specified in the user guide)
2. Malfunctions caused by repair, modification, or disassembly by a party other than a repair service provider designated by LINKFLOW
3. Malfunctions caused by phenomena such as natural disasters, geological events lightening, or abnormal voltage
4. Malfunctions that do not occur naturally, such as those caused by salty water, solutions(e.g. rainwater, juice, alcoholic drinks) or other liquids, entry of sand or dirt inside the camera, and pressure

5. Malfunctions occurring from causes such as improper storage(not in accordance with the instructions in the user manual), occurrence of mold, or improper care
6. In case there is no receipt or proof of purchase containing the place of purchase and purchase date

LINKFLOW does not accept responsibility for any loss caused in relation to use of the product, including loss of data, opportunity and profits, recovery expenses, responsibilities to third parties, or other incidental, indirect or secondary loss, and not due to a defect in the product itself, regardless of whether it occurs during the warranty period.
To obtain warranty service, please contact LINKFLOW customer service
during the warranty period.

1. Please keep the warranty card and receipt to prove your purchase for repairing or replacing the product.
2. If the warranty card is lost, it will not be reissued.
3. If a specific product is discontinued due to our company's circumstances, we will maintain service parts for 4 years from the date of discontinuation and do our best to provide service.

--CUT--

Warranty Card			
Product name		Model	
Purchase date		Serial No.	
Place of purchase			
LINKFLOW			

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