USER'S MANUAL
Scouting Trail Camera

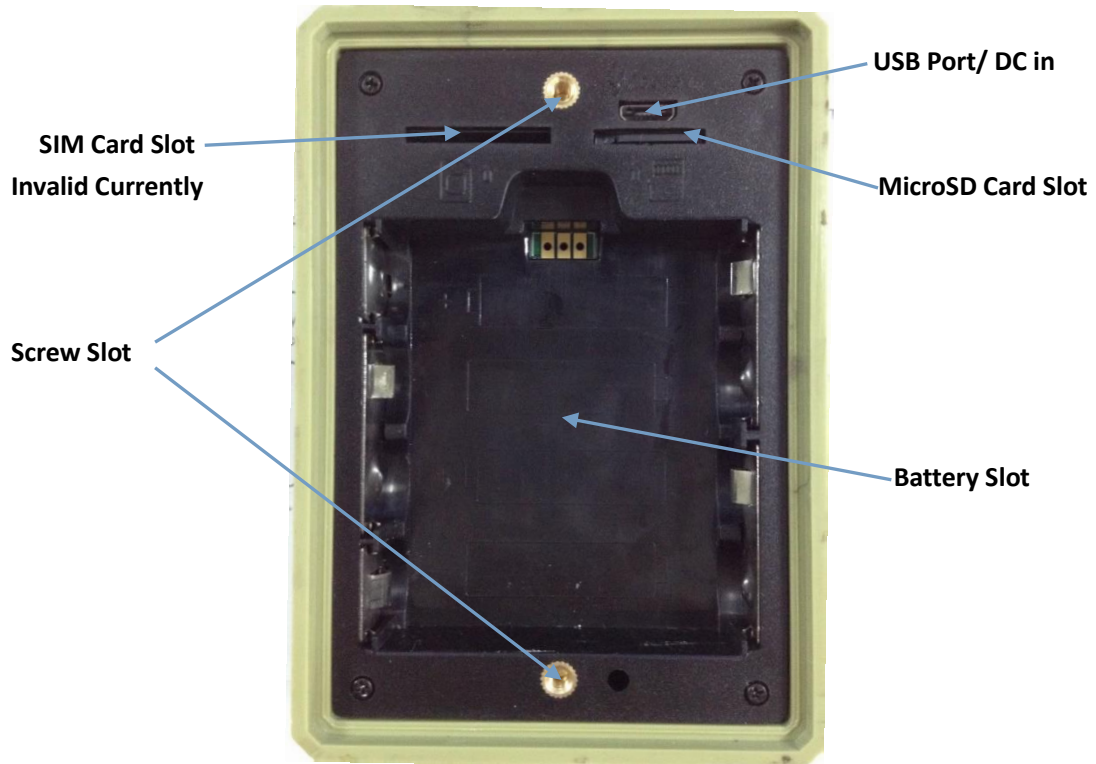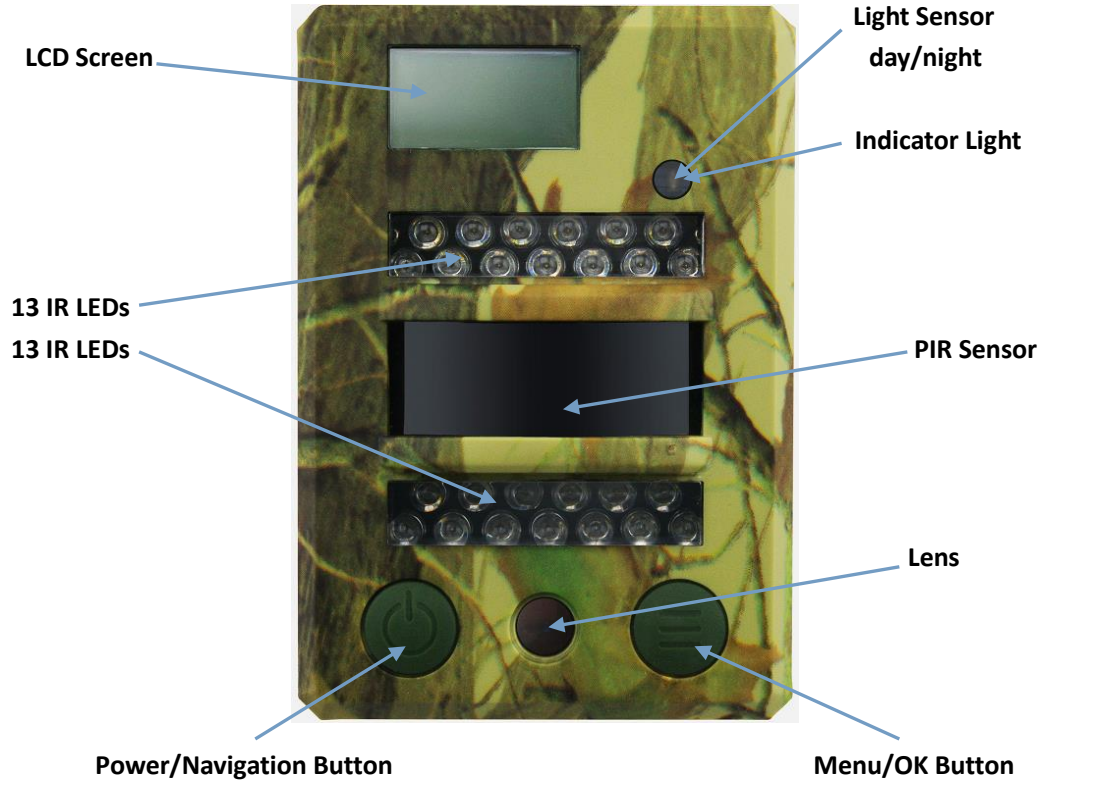# Contents

1. Whole View and Details of Camera

LCD Screen

Light Sensor day/night

Indicator Light

13 IR LEDs

13 IR LEDs

PIR Sensor

Lens

Power/Navigation Button

Menu/OK Button

USB Port/ DC in

SIM Card Slot
Invalid Currently

MicroSD Card Slot

Screw Slot

Battery Slot

Camera Screen Display (Test Mode Main Interface)

Photo Mode Interface

Photographing

hour/min/sec

Photo Resolution
Multi Shot Number
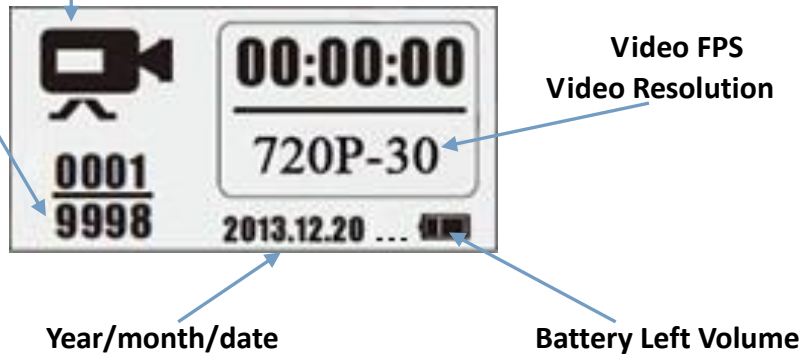
00:00:00
8M-1P
0001
9998
2013.12.20 ...

0001: recorded file number of photos & video clips

9998: estimated available file number based on left memory space in memory card

Video Recording

Video Mode Interface

Video FPS
Video Resolution

00:00:00
720P-30
0001
9998
2013.12.20 ...

Year/month/date

Battery Left Volume

Photo + Video Mode Interface

00:00:00
8M-720P
0001
9998
2013.12.20 ...

Note: camera support camera, video, camera + video three different working modes; screen display will be different based on different working mode.

2. Camera Menu List Introduction

1) First Navigation Menu

Name	Photo	Video	Photo+Video	Settings	Delete	Exit
Camera ID	Photo	Video	Photo+Video	Settings	Delete	Back to Previous Page

2) Second Navigation Menu: Settings

Photo	Video	Timer	Time Lapse	Delay	Stamp	SD Cycle	Camera Sound

PIR		GPRS		Default	Exit
PIR Sensitivity	Date/Time	GPRS ON/OFF	Password	Reset	Back to Previous Page

3) Third Navigation Menu

Photo Settings

Photo Size	Multi Shot	Exit

Video Settings

Video Resolution	Video Length	Video Frame	Frequency	Video Sound	Exit

3. Quick Start

1. Open back cover to insert MicroSD Card and batteries;

Power On Camera

2. Press and hold Power/Navigation button ⏻ for 3 sec; camera will enter PIR Auto Working mode after indicator flashes 5 times;
3. Press Menu/OK button ☰ once to wake up camera LCD screen to enter TEST Mode;

Manual Photographing/ Video Recording

4. **Test Mode Main Interface,** press Power/Navigation button ⏻ again to shoot photos, videos, or photo + video based on camera settings; stop by pressing again Power/Navigation button ⏻

Enter Menu for Setup Functions

5. **Test Mode Main Interface, press Menu/OK button ☰ to enter settings menu; now button ⏻ is always for navigation; button ☰ is always for OK to save/confirm needed setup;**
6. Press and hold button ☰ for 3 seconds to return Test Mode Main Interface (Camera Modes Menu) after all settings are done;
7. **Test Mode Main Interface,** press and hold button ☰ for 3 seconds to enter PIR Auto Working Mode; (indicator LED will flash 5 times, Screen will be off.)

Power Off Camera

8. Press and hold button ⏻ for 5 seconds to turn off camera.

Camera Operation Flow Chart

ON/OFF Camera (PIR Auto, TEST, OFF)

PIR Auto Working Mode — Press and hold Power / Navigation button ⏻ for 3 sec; camera will enter PIR Auto Working mode after indicator flashes 5 times;

TEST Mode — In PIR Auto Working Mode, press Menu / OK button ≡ once to wake up camera LCD screen to enter TEST Mode;

Power Off — Press and hold Power / Navigation button ⏻ for 5 seconds to turn off camera.

Functions Setup

Configuration — In TEST Mode, press Menu/OK button ≡ to enter settings menu; now button ≡ is always for navigation; button ⏻ is always for OK to save/confirm needed setup;

Return to First Navigation Menu — Press and hold button ≡ for 3 seconds to return back to First Navigation Menu after all settings are done

Enter PIR Auto Working Mode from Test Mode — **In First Navigation Menu,** press and hold button ≡ for 3 seconds to enter PIR Auto Working Mode;

Manual Recording

1. Set Camera, or Video, or Camera + Video

First Navigation Menu

📷 **,** press Menu / OK button ≡ ; camera is in camera mode;

🎥 , press Menu / OK button ≡ camera is in video mode;

📷+🎥 , press Menu/OK button ≡ camera is in cam+video mode

2. After configuration above, press and hold button ≡ for 3 seconds to return back to TEST Mode main interface; then press Power/Navigation button ⏻ ; camera now is recording photo/ video/ photo + video;

3. Press Power/Navigation button ⏻ again to stop video recording;

Note:

1) To ensure camera functions well; plz adjust camera to be with correct time;
2) Plz don't turn on Time Lapse 🕐 and Delay 🕐 at the same time;
3) Camera can be turned off by pressing and holding button ⏻ any time.

4. Detail Setups

Camera Modes (Default Settings)

Name		
Name	Camera ID	OFF
📷	Photo	2MP
🎥	Video	VGA (640*480)
📷+🎥	Photo+Video	OFF
🔧	Settings	
🗑	Delete	
Exit	Back to Previous Page	

If wanted setting icon is not showing on camera LCD screen, press ⏻ repeatedly until it appears.

Name Camera ID	**a. Set up** Press ⏻ to enter configuration page, press ☰ to set the next digit/ alphabet; totally 4 digits/ alphabets for each camera. **b. How does this work?** Selected 4 digits/ alphabets will show on the photo stamp. Such function can help user to identify photos are from where and which camera.
📷 Photo	**a. Set up** Press ☰ to enter Photo mode; icon OK appears at right bottom of interface 📷 ᴼᴷ **b. Take a Photo** Press and hold button ☰ for 3 seconds to return back to TEST Mode main interface; then press ⏻ to take a photo
🎥 Video	**a. Set up** Press ☰ to enter Video mode; icon OK appears at right bottom of interface 🎥 ᴼᴷ

	b. Start Recoding Press and hold button ⊜ for 3 seconds to return back to TEST Mode main interface; [icon] then press ⏻ to take a video clip.
◙⁺🎥 **Photo + Video**	**a. Set up** Press ⊜ to enter Photo + Video mode; icon OK appears at right bottom of interface ◙⁺🎥 **b. Start Recoding; Photo(s) First, then Recording Video** Press and hold button ⊜ for 3 seconds to return back to TEST Mode main interface; [icon] then press ⏻ to take a photo
🔧 **Settings**	Press ⊜ to enter camera settings.
🗑 **Delete**	**Set up** 1) Press ⊜ to enter configuration page, press ⏻ to choose to delete One or All recorded file(s), or Format SD card; 2) Press ⏻ choose Yes/ No, press ⊜ again to confirm deletion/ Format. **Note:** Menu will stay in Yes/No interface in deleting One file; plz press No to get back to previous interface. This is designed to enable user to delete several files together without pressing more buttons.
Exit	Press ⏻ to get back to TEST Mode main interface [icon]

Camera Settings (Default Settings)

Icon	Setting	Value
⏰⏰	Timer	OFF
⏱	Time Lapse	OFF
🕐📷	Delay	OFF
📹	Stamp	ON
🔁	SD Cycle Recording	OFF
🎵	Camera Sound	ON

PIR	PIR Sensitivity High
(calendar icon)	Time/Date
GPRS	GPRS Switch OFF
(lock icon)	Camera Password OFF
Default	Reset NO

If wanted setting icon is not showing on camera LCD screen, press ⏻ repeatedly until it appears.

(Timer icon) **Timer**	**a. Set up** 1）Press ☰ to enter configuration page, press ⏻ to choose ON; press ☰ again to set timer; 2）Press ⏻ to choose wanted time, press ☰ to confirm wanted number and move to next number; 3）Press ☰ again after Start time and End Time is set to Exit. **4）How does this work?** Camera will only work during pre-set Start Time and End Time.
(Time Lapse icon) **Time Lapse**	**a. Set up** 1) Press ☰ to enter configuration page, press ⏻ to choose ON; press ☰ again to set Time Lapse; 2) Press ⏻ to choose wanted time, press ☰ to confirm wanted number and move to next number; 3) Press ☰ again to confirm. **b. How does this work?** Camera will take photos/ videos automatically upon the interval user set.
(Delay icon) **Delay**	**a. Set up** 1) Press ☰ to enter configuration page, press ⏻ to choose ON; press ☰ again to set Delay; 2) Press ⏻ to choose wanted time, press ☰ to confirm wanted number and move to next number; 3) Press ☰ again to confirm. **b. How does this work?** Camera will take photos/ videos based on the pre-set time interval upon motion. This option prevents from taking too many photos or videos.
(key icon)	**a. Set up** Press ☰ to enter configuration page, press ⏻ to choose

Stamp	ON/OFF; press ⊜ to confirm setting.
	b. How does this work?
	Left battery volume, Moon phase, Temperature, Date/Time, and pre-set Camera ID will be displayed on every photo.
SD Cycle Recording	**a. Set up**
	Press ⊜ to enter configuration page, press⏻to choose ON/OFF; press ⊜to confirm setting.
	b. How does this work?
	Select "ON", camera will continue to record photos/videos by deleting earliest photos or video clips recorded in SD card.
Camera Sound	**a. Set up**
	Press ⊜ to enter configuration page, press⏻to choose ON/OFF; press ⊜to confirm setting.
	b. How does this work?
	Select "OFF" to turn off camera speaker.
PIR Sensitivity	**a. Set up**
	Press ⊜ to enter configuration page, press⏻to choose High/Middle/Low; press ⊜ to confirm setting.
	b. How does this work?
	High/ Middle/ Low;
	Higher sensitivity is 1) more sensitive to movements by smaller subjects; 2) longer detection distance; 3) easier for sensor to detect difference between body heat and outdoor temperature; 4) easier to trigger camera to record. In **high temperature** environment, body heat of subjects and environment temperature is hard to tell by camera, **suggest to set High**.
Time/Date	**a. Set up**
	1) Press ⊜ to enter configuration page, press⏻to choose ON; press ⊜ again to set Time/Date;
	2) Press ⏻ to choose wanted time, press ⊜ to confirm wanted number and move to next number;
	3) Press ⊜ again to confirm.
	b. How does this work?
	Date/Time; Date: "month/ date/ year"; Time: "hour/minute"
	Note: Plz adjust Time/Date when you turn on camera to ensure camera to function well as expected.
GPRS Switch	**a. Set up**
	Press ⊜ to enter configuration page, press⏻to choose ON/OFF; press ⊜to confirm setting.
	b. How does this work?
	To enable/ disable GPRS/MMS function.
🔒	**a. Set up**
	1) Press ⊜ to enter configuration page, press⏻to

Camera Password	choose ON; press (≡) again to set Password; 2) Press (⏻) to choose wanted password combination, press (≡) to confirm wanted digit/ alphabet and move to next number; 3) Press (≡) again to confirm. **b. How does this work?** Enable password protection for your camera; support totally 6 digits/ alphabets long password access.
⏻ Default Reset	**a. Set up** Press (≡) to enter configuration page, press (⏻) to choose YES/NO; press (≡) to confirm setting. **b. How does this work?** Choose YES to reset camera settings back to factory default settings.

Photo Settings (Default Settings)   📷

⊞   Image Size   2M

🗐   Multi-shot   1P

⊞ Image Size	**Set up** Press (≡) to enter configuration page, press (⏻) to choose desired Photo Size; press (≡) to confirm setting. (8MP/5MP/2MP: 3264x2448, 2560x1920, 1920x1080)
🗐 Multi-shot	**Set up** Press (≡) to enter configuration page, press (⏻) to choose desired Photo Burst number; press (≡) to confirm setting. (Support 1~7 photos per burst/ trigger.)

Video Settings(Default Settings)   🎥

▦   Video Size   VGA

Length   Video Length   5s

Frame   Video Frame   30FPS

Hz Frequency	50Hz

🎤 Audio Recording	ON

▦ Video Size	**Set up** Press ≡ to enter configuration page, press ⏻ to choose desired Video Size (720P/VGA/CIF: 1280x720/640x480/320x240)
Length Video Length	**Set up** Press ≡ to enter configuration page, press ⏻ to choose desired Video Length per Burst/ Trigger; press ≡ to confirm setting. (Support 5~60 seconds)
Frame Video Frame	**Set up** Press ≡ to enter configuration page, press ⏻ to choose desired Video Frame; press ≡ to confirm setting. (Optional 15FPS and 30FPS)
Hz Frequency	**Set up** Press ≡ to enter configuration page, press ⏻ to choose desired Frequency based on local Country Frequency; press ≡ to confirm setting. (Optional 50HZ and 60HZ)
🎤 Audio Recording	**Set up** Press ≡ to enter configuration page, press ⏻ to choose to turn ON/ OFF audio recording in video; press ≡ to confirm setting. Select "ON", audio available in video clips.

Software Upgrade

1. Copy the upgrade software files (3 files) into MicroSD Card;
   Note: Suggest to use 1 or 2 GB SD card to do the upgrade.

2. Insert MicroSD Card into camera;
3. Insert batteries/ or plug in USB power cable;
4. Press and hold Power/Navigation button ⏻ , camera speaker emits one Beep Sound;
5. Release button ⏻ when you see red indicator led flashes;
6. Then press and hold Menu/OK button ≡ ;
   Note: red indicator LED stops flashing but keeps lighting up;
7. Release button ≡ after you see until **ISP** interface shows up in screen

   ISP

8. Upgrade succeeds when red indicator led is off;

9. Plug out batteries/or power cable;
10. Insert batteries/ or power cable; turn on camera. Done.

Note: Don't cut off power supply somehow; otherwise, camera will not be able to be turned on again unless software upgrade via PC.

USB Connection

When camera is connected via USB, press and hold button ⏻ , camera speaker emits one Beep Sound, and red indicator LED lights up; then interface below appears.

Press ⏻ to choose DC in, or PC connection; press ☰ to confirm choosing.

a. DC in for Power Supply

Camera enters Test Mode Main Interface.

b. PC Connection to Read MicroSD Card

Camera screen shows interface as below. Now you can read MicroSD Card contents via PC.

By pressing ☰ again, camera will be turned into a PC camera; press ☰ again to Exit.

5. MicroSD Card Selection & Battery Life Test Report

MicroSD Card Selection

A memory card is required to operate the camera. When the camera is "ON" and no memory card is inserted, screen displays "No SD Card". MicroSD Card slot of camera supports up 32 GB memory card. Before inserting or removing the memory card, the camera must be powered OFF. Failing to do so may cause loss of or damage the pictures already recorded in the memory card. Following data shows an approximate quantity of photos which can be recorded by the camera depending on the memory card capacity.

Chart below will show you the approximate capacity of different size SD cards. Pls check to see which size card can fit your needs best.

SD Size / Capacity	1GB	2 GB	4 GB	8 GB	16 GB	32 GB
Photo (pictures)						
2 MP	1645	3195	6197	12401	23786	50146
5 MP	653	1244	2356	4453	7957	14241
8 MP	421	796	1488	2873	4864	8092
Video (hours)						
720P HD	00:09:50	00:18:41	00:35:15	01:06:51	02:11:18	04:20:54
640x480	00:21:31	00:41:58	01:22:13	02:47:27	05:29:13	13:01:16
320x160	00:50:45	01:44:18	03:21:04	06:37:45	13:22:58	27:00:20

Battery Life Test Report for Reference

Test Condition: LCD screen off. Mode: "Power On" _PIR intelligent automatically monitoring					
4AA Alkaline Batteries					
Photos shot per day		**Working time**	**Video clips shot per day**		**Working time**
IR LEDs On					
2MP	100 photos	26 days	320× 240	10 sec	10 clips	47 days
5MP	100 photos	24 days	640× 480	10 sec	10 clips	44 days
8MP	100 photos	21 days	1280× 720	10 sec	10 clips	41 days
IR LEDs Off					
2MP	100 photos	51 days	320× 240	10 sec	10 clips	185 days
5MP	100 photos	48 days	640× 480	10 sec	10 clips	170 days
8MP	100 photos	46 days	1280× 720	10 sec	10 clips	161 days

6. Specification

Model	2.8C
Recording	
Video Format	.avi
Video Compression	MPEG4
Video Resolution	720P (1280*720) D1 (640*480) CIF (320x240)
Video Frame Rate	15 / 30 FPS; programmable
Video Length	5-60sec. programmable
Still Image Format	JPEG
Still Image Resolution	2MP (1920x1080) 5MP (2560x1920) **8MP(3264x2448)**
Shooting Numbers	1~7 photos/trigger(programmable)
Photo Stamp	Logo
	Battery left volume
	moon phase
	temperature
	Date & time
	camera ID—4 digits (Programmable by User)
Record Delay	1second~23h 59min 59sec
Night Vision	
Night Vision Distance	8~10m, 30 feet
No. of Infra-Red LEDs	26pcs
General	
Image Sensor	1.3 Mega Pixels Color CMOS
Effective Pixel Size	1280x960
Lens	F=3.0; FOV=49°; Auto IR-Cut-Remove
Effective IR Flash	8 meters
Infrared Cut Filter	Yes
White Balance	Automatic
Day/Night Mode	Color during day / B&W at night
Minimum Illumination	0 Lux (IR on)
Effective PIR Angle	100°
PIR Sensitivity	High / Normal / Low 3 levels
Audio Recording	Yes
Operation Power	6~12V DC (1~2A)
Battery Type	4 AA
Auto Power Off	automatically power off in 1min without any operations
Interface	USB; **Micro SD card slot**

Memory Type and Size	SD Card, up to **32G**
Display	1.0 inch B/W Screen
Playback Zoom In	Yes
Language	English
Sensor Type	PIR (Passive Infrared)
Sensor Range	12~15m; 50 feet
Sensor Trigger Speed	0.8-1 sec
Power Consumption	150mA(350mA--IR LEDs on)
Low Battery Alert	Yes
Stand-by Time	4 months (4AAbatteries)
Operating Temperature	(-20 - 60)°C
Operation Humidity	5%-90%
Waterproof spec	IP54
Dimensions	100.4*70.44*51.32mm
Weight	171.2 g
Certification	CE, FCC, RoHs
Functions	
Photo+Video	Yes
Time Lapse	Yes
Timer	Yes
Time Lapse Delay	Yes
Password Protection	Yes, 6 digits
SD Card Cycle Recording	Yes
Auto Power Off in Test Mode	Yes
Water/WeatherProof	Yes
SD Card	Support up to 32GB

Specifications are subject to change without prior notice

7. Warranty

With great pride and full confidence in our products, we always keep our words which are given to our customers as specified warranty terms and service below. Based on a strict QC system, we initially offer all our customers one year long time limited warranty, come along with selectable chargeable renewal policy of warranty as one, two, three, or four years.

Our products are warranted against defects in materials and workmanship for a period of one year from the date of original purchase. If a defect exists, we will, at our option and to extent permitted by law will (1) repair the product at no charge using new or refurbished parts; (2) exchange the product with a functionally equivalent product that is new or refurbished. Provided the product is returned freight charge paid.

This warranty excludes damage resulting from abuse, accident, modifications or other causes that are not defects in materials and workmanship, or by someone other than our authorized technicians. This warranty only covers failures due to defects in materials or workmanship under normal usage.

To obtain warranty service, please contact us to determine the nature of problem before return the product under this warranty (with a written description of the problem and print samples) for repairing or exchanging.