Trail Camera

TC2201NA

User Manual

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1. Introduction

Congratulations on your purchase of the WALDKAUZ digital trail camera. This trail camera is designed to record the activity of wildlife game in the outdoors with its still image and movie modes and weatherproof, rugged construction.

The most advantages are its ultra small and portable size with extra longer surveillance time. Hunters do not need to carry traditional big cameras in a remote hunting place. Or even travel a long distance just for replacing the batteries.

Main Features:

- 2.0MP Effective Pixel
- Ultra Portable Size (82mm*122mm*41 mm)
- Ultra Long Working Time
- Less Than Second Fast Trigger Time
- Full Automatic IR Filter
- LCD Display
- 55 Degree Wide Angle PIR Sensor
- 15 Night Vision LEDs
- Walking Test Indicator and Lighting Sensor
- Photo Taken Delay: 5~ 60 second ,1~ 60mins (default 1min)
- 3P Multiple Frame
- 640*480 at 30 Frame per Second High Resolution Video recording
- Support to 32 GB SD Card
- Date Time, Moon Phase Imprint
- Auto Exposure
- Auto White Balance
- Power Supply: 4*AA Cell batteries
- Standard Socket for Camera Tripod
- Water Resistant

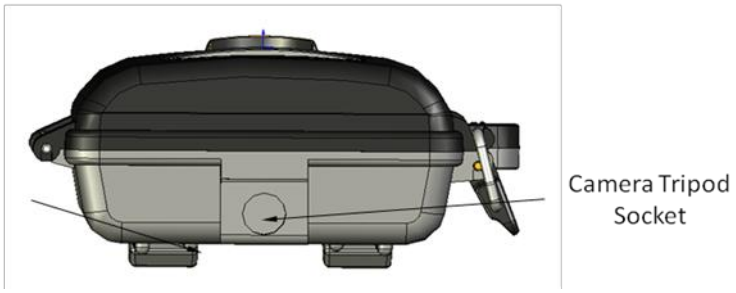
2. Digital Trail Scout Specifications

Product Name	Trail (Game) Camera
Model Number	WALDKAUZ
Image Sensor Type	1/2 Inch CMOS
Effective Pixels	2.0 Megapixels
Effective Focal Length	9.3 mm
Lens Aperture	F/2.8
Camera Lens Sight Angle	52 Degrees
IR Filter	Full Automatic IR Filter
Display	LCD
PIR Sensor	Yes
PIR Sensor Sight Angle	55 Degrees
Trigger Speed	1.5 second
Number of IR LED	15 LEDs
Max Night Vision Lighting Distance	10 meters
Storage	SD Card up to 32 GB Capacity (Recommend SanDisk SD Card)
Walking Test Indicator	Yes
Photo Taken Delay	5~ 60 second ,1~ 60mins (default 1min)
Selectable Image Resolution	2.0MP; 0.8MP
Multiple Frame (Take 3 photos)	Yes
Video Resolution	Movie: AVI 640 x 480 pixels @ 30 fps (15 seconds).
File Format (Image/Video)	JPEG/AVI
Date Time Imprint	Yes
Moon Phase Imprint	Yes
Exposure	Auto
White Balance Mode	Auto
Menu Languages	English
Power Supply	4 * AA Cell batteries
Camera Socket	Yes
Water Resistant	Yes

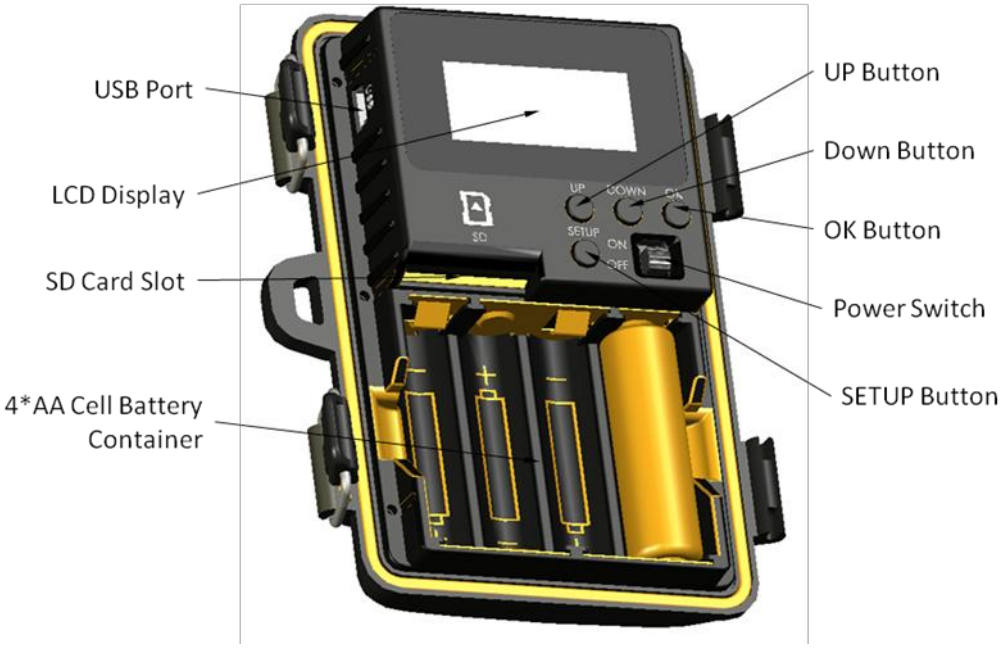
3. Parts Identification

Front housing image with major parts indication

Bottom view with major parts indication



Open view with major parts indication



4. Packing Contents

Model WALDKAUZ Digital Scouting Camera

- User Manual
- USB cable
- Mounting Kit

5. Battery and SD Card Installation

WALDKAUZ Digital Scouting Camera is designed to operate using 4*AA Cell Battery. We recommend to use Alkaline battery.

NOTE: Always have camera in OFF position when installing or removing batteries.

▲ Please make sure the voltage and polarity (+/-) are correct before connection. Incorrect voltage or polarity (+/-) will damage the camera.

Memory

Your WALDKAUZ Digital Scouting Camera works with an expendable media card slot capable

accepting up to 32GB SD card (sold separately).

Inserting SD card

Make sure camera is in the OFF position whenever adding or removing memory.

- Insert SD memory card in to the SD card slot completely and in the correct direction as shown by the sticker located at the side of the housing.
- To remove the SD memory card, depress the SD card and pull out the card gently.

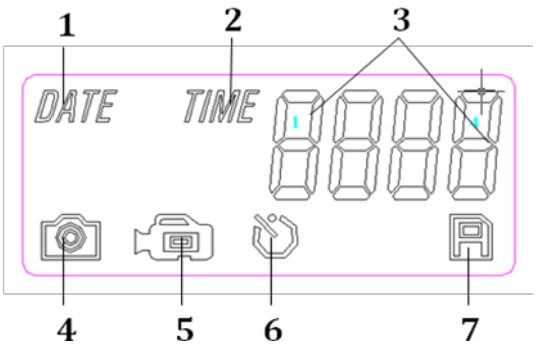
▲ SD cards must be clean (no images from other sources), if you are using the SD card from other cameras, please make sure to format the SD card prior use in the camera. New cards are good to use straight from the package.

6.Setup Your Camera

Menu Items

Date	MM/DD		
Time	HH:MM(24 Hours System)		
Image/Video Mode	Photo	1P	0.8MP(LO)
			2.0MP(HI)
		3P	0.8MP(LO)
			2.0MP(HI)
	Movie		640*480
Camera delay	Camera delay: 5~ 60 second ,1~ 60mins (default 1min)		
Photo number	Only display		

LCD Menu



1. Date
2. Time

3. 4 Digits Display
4. Image Resolution Select
5. Movie Recording
6. Camera Delay Setting
7. SD Card

The setting of this camera is very easy. Turn on the unit and then press the “SETUP” button, the icon will start to blink from “DATE”, press “UP” or “DOWN” to the next setup item. Press “OK” button to enter the specific menu items which is blinking. After the setting is done, press “SETUP” to save and exit the menu setting status.

6.1 Set Camera Delay

Camera Delay is to set the amount of preset time in minutes and seconds the camera will sleep between PIR triggering. This setting ranges from 5~ 60 seconds, 1~ 60mins. Default delay is 1 minute.

a) Turn on the unit and then press the “SETUP” button
b) The menu icon will start to blink, press the “UP” or “DOWN” button till icon 6 “Camera Delay Setting” is blinking, press “OK” to enter.
c) Then the LCD will display “0100”, first two digits represents minutes and last two digits represents seconds.
d) When the cursor stays at minutes, press “UP” and “DOWN” to change the value (Range from 00-60, step 1), press “OK” to confirm.
e) Then it enters the second setting. press “UP” and “DOWN” to change the value (Range from 05-59, step 1), press “OK” to confirm.
f) Then it comes to the next setting item. If the setting is done, press “SETUP” to save and exit the setting.

6.2 Set Camera State and Photo Resolution

To set the number of pictures or movie the camera will take per PIR triggering. The user can choose 1P, 3P or movie mode.

a) Turn on the unit and then press the “SETUP” button
b) The menu icon will start to blink, press the “UP” or “DOWN” button till icon 4,5 is blinking, press “OK” to enter.
c) Press the “UP” or “DOWN” button to select picture or movie.
d) If selecting the “Picture” mode, press “OK”, the LCD will display “1P” (shot 1 photo a time) or “3P” (shot 3 photos a time), press “UP” or “DOWN” to select and press “OK” to confirm.
e) Then the LCD will display “LoHi” which comes to setting the image resolution. “Lo”

represents 0.8MP and “Hi” represents is 2.0MP. Press “UP” or “DOWN” to select and press “OK” to confirm. Default is “Hi”.

Model	Lo	Hi
WALDKAUZ	1028*768 (0.8M)	1600 x 1200 (2.0M)

f) If selecting the “Movie” mode, press “OK” to confirm.

▲ The movie length is default set by 15 seconds..

g) Then it comes to the next setting item. If the setting is done, press “SETUP” to save and exit the setting.

6.3 Set Date, Year and Time

Setting the Date, Year and Time to make them stamp in the picture.

1) Set Date
   a) Turn on the unit and then press the “SETUP” button
   b) The menu icon will start to blink, press the “UP” or “DOWN” button till icon 1“DATE” is blinking, press “OK” to enter.
   c) Then the LCD first two digits represents month (MM) and last two digits represents day(DD).
   d) Press “UP” or “DOWN” to select month between 01-12, Press “OK” to confirm. Then it comes to day setting.
   e) Press “UP” or “DOWN” to select month between 01-31, Press “OK” to confirm. Then it comes to year setting.
   f) Press “UP” or “DOWN” to select year between 00-99 (2000-2099), Press “OK” to confirm.
   g) If the setting is done, press “SETUP” to save and exit the setting.

2) Set Time
   a) Turn on the unit and then press the “SETUP” button
   b) The menu icon will start to blink, press the “UP” or “DOWN” button till icon 2 “TIME” is blinking, press “OK” to enter.
   c) Then the LCD first two digits represents hour (HH) and last two digits represents minutes (MM).
   d) Press “UP” or “DOWN” to select hour between 00-23, Press “OK” to confirm. Then it comes to minutes setting.
   e) Press “UP” or “DOWN” to select minute between 00-59, Press “OK” to confirm.
   f) If the setting is done, press “SETUP” to save and exit the setting.

▲ Date & Time setting will just keep for a while whenever the batteries are removed from camera. Don't forget to reset the Date & Time stamp after you replace the batteries.

6.4 Display How Many Pictures and Video Taken

a) Turn on the unit and then press the "SETUP" button
b) The menu icon will start to blink, press the "UP" or "DOWN" button till icon 8 "SD Card" is blinking.
c) Then the LCD will display the total number of the picture and video taken in this SD card.

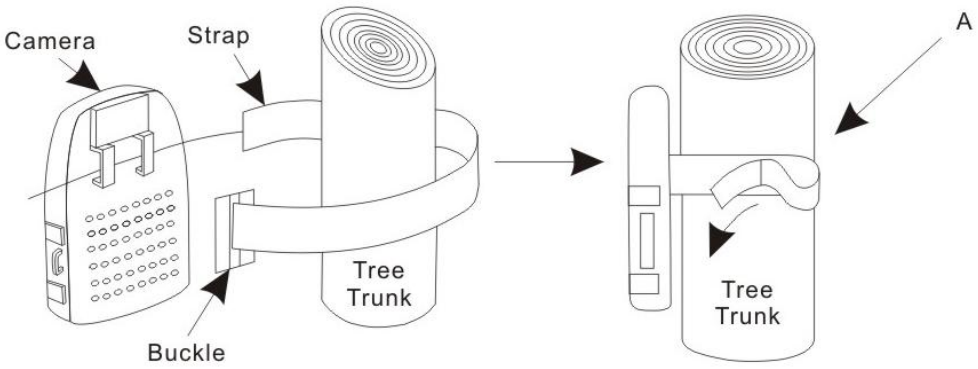
6.5 SD card Format

a) Turn on the unit and press the "SETUP" button
b) The menu icon will start to blink, press the "UP" or "DOWN" button till icon 8 "SD Card" is blinking, press "ok" then comes into the status of formatting
c) Press "UP" or "DOWN" to select "FO" or "NO" and press "OK" to confirm
d) Press "UP" or "DOWN" to select "Y" or "N" and press "OK" to confirm
e) If the setting is done, press "SETUP" to save and exit the setting.

7. Using the Camera

7.1 Mounting the Camera

It is recommended that you mount the camera 1.2~1.5 meters off the ground with the camera pointed at a slight downward angle. Be sure to avoid mounting the camera facing east or west as the rising and setting of the sun could produce false triggers and overexposed images. Clear branches and other debris away from the front of the camera so as not to block the camera lens or PIR sensor.



a) Insert the strap through the strap slots on the rear housing.
b) Wrap the strap around the mounting surface. Secure the strap and tighten the buckle in order to secure the camera.

▲ In order to obtain proper weather resistance, please make sure that both door latches are securely locked in place.

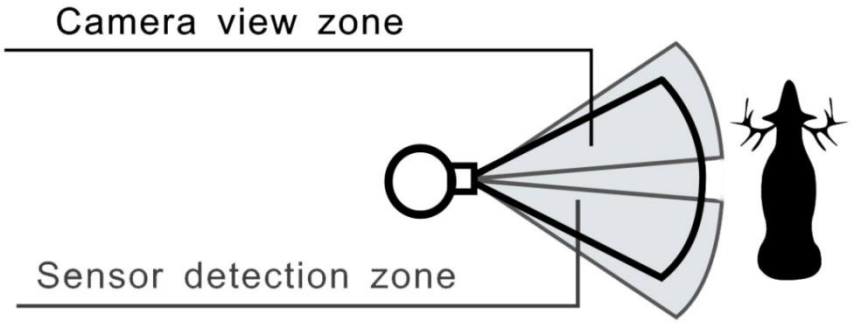
7.2 Turn on the Camera

User just turn on the power switch and the camera is ready to taking the pictures. When the PIR sensor is trigged, it will start to take photos right after the delay time is passed.

7.3 Testing the camera coverage area

One of WALDKAUZ Scouting Camera's features is the ability to test the coverage area.

- After mounting the camera, open front housing and slide the "Power" switch to "ON" position and press the "SETUP" button.
- A red indicator light on the front will blink when you have intruded the coverage area.
- Adjust the camera position as needed and repeat testing until the desired coverage area is achieved.



▲ Make sure to switch the “Power” to “On” and press the "SETUP" button again after setting is over. Otherwise the camera will not take any pictures or movies.

7.4 Secure Your Camera

WALDKAUZ Scouting Camera has a lock hole to have a lock on it.

7.5 Replacing the Battery

If the battery is low, the red light indicator will flash 3 times and then turned off. This indicates that the user should replace a new set of battery.

8. Viewing the Images and Movies

Connect the Camera to PC directly

1. Sliding the “Power” toggle switch to “on” position
2. Press “SETUP” button
3. Connect your camera to the PC by the USB cable, the PC will recognize the new device and enter into “mass storage” model. It will display a new disk symbol in your “file explorer”. The CD will display “STO” means the camera is in mass storage mode.
4. Then the user can copy, move or delete the photos and videos that inside the SD card.

Read Images by Card Reader

1. Depress the SD card and pull out the card gently.
2. Put the SD card into the card reader available in the market.
3. Read images and movies from the card reader.

9. PC Camera

Turn into PC Camera

The user can use PC camera for video conference such as skype, msn and yahoo.

1. Sliding the “Power” toggle switch to “on” position
2. Press “SETUP” button
3. Connect your camera to the PC by the USB cable, the PC will recognize the new device and enter into “mass storage” model.
4. Press “OK” then the camera will enter the “PC camera” mode. The LCD will display “PC”.

10. Glossary

PIR: Passive Infrared Sensor. Senses motion like typical security motion detector. Requires infrared energy (heat) in addition to motion to trip sensor to assure detection of live animals.

Camera Delay: Time elapsed between photos while events are sensed and recorded. This is user-set based on wildlife activity in area.

Resolution: The resolution selection that you have selected. MP = Mega Pixels = 1 million pixels
HI (1600 x 1200): 2.0M pixels image. (High image quality, big file size)
LO (1024 x 768): 0.8M pixels image. (Medium image quality, medium file size)
Video resolution (640 x 480@30fps): This is the resolution during video capturing.

FPS: Frame per second. This is the measurement of the frequency (rate) at which an imaging device produces unique consecutive images. 30 fps means that the camera produces video at 30 frames per second. The higher value of the fps the more fluent of the video.

Movie Length: This camera takes all movies at 15 seconds' length.

Moon Phase Imprint: The activity of animals are somehow in related with the moon phase. Our unit features to imprint a moon phase stamp on each photos to provide more information to the hunters.

IR Flash: Also called IR LED Array. Infrared LED Night Vision feature. Emits a burst of infrared light which is invisible to the human eye. Especially useful for night photos when a visible flash is undesirable.

SD Card: Memory card used to store images and events. The camera is compatible with up to 32GB capacity SD cards. We recommend using SanDisk SD card.

Battery Life: Time that camera will function in the field. Dependent on temperature, number of images and number of flashes during that time. Based on our new advanced power system, this camera can support 30 pictures/day for one year surveillance.

Burst: To set the number of pictures the camera will take per PIR triggering
1P: Single image capturing per PIR triggering
3P: Three images continuous capturing per PIR triggering

FULL: When memory capacity is full, this LCD screen will show "FULL"

Mass Storage ： Connect the USB cable to the computer， next press “SETUP” button, then the computer read the SD card.