Firefield®

HEXCORE HD

HD 1-3X NIGHT VISION BINOCULARS

USER MANUAL

FF18001

Firefield™ products are designed to provide unparalleled value in shooting technologies and enable young shooters to master their skills for tactical training situations, competitive shooting, hunting, and fast-paced combat in the field of Xtreme shooting sports.

Firefield™ offers quality products with the outdoor enthusiast and shooting fanatic in mind. Our lineup consists of riflescopes, laser sights, boresights, tactical flashlights, reflex sights, binoculars and other shooting accessories.

All Firefield™ products are compatible with airsoft, tactical rifles, shotguns and pistols, and are designed to maximize performance in every moment.

Transform your outdoor experience with Firefield™!

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HD 1-3X NIGHT VISION BINOCULARS

The Hexcore HD 1-3x Digital Night Vision Binoculars are equipped with a high-performance 1280x720 CMOS digital night vision sensor and a contrast-enhancing 640x360 TFT LCD display, ensuring crystal-clear imagery that brings every detail to life.

Its built-in video recorder is capable of recording HD 1280x720 resolution footage for up to 11 hours as well as photos in JPEG format, and with nighttime recording capabilities extending beyond 150 yards, you won't miss a moment even in the darkest environments. The Hexcore's 1-3x digital zoom brings distant objects closer, enabling detailed exploration, while its integrated IR illuminator with 2200mW of power on high mode ensures clear visibility even in complete darkness.

Powered by four included M batteries, the Hexcore HD offers up to 8 hours of continuous daytime use. Whether you're venturing out during the day or night, these binoculars adapt to any lighting conditions and settings. The included DNV head mount allows you to convert them into night vision goggles, providing a hands-free experience.

FEATURES

- Records HD video and pictures
- 150 yd range
- Mounts to standard helmet mounting platforms using included accessories
- 1x base magnification and 3x digital zoom
- Use of micro memory cards gives you confidence that you will never run out of space
- 3 IR modes creates the best lighting scenario regardless of conditions and setting

TECHNICAL SPECIFICATIONS

Sensor type	CMOS
Sensor Resolution (px)	1280 x 720
Magnification (x)	1
Digital Zoom (x)	1-3
Display Resolution (px)	640x360
Display Color	Color Day / Black & White Night
Recording Resolution (px)	HD 1280x720 @ 30fps
Video Format	AVI
Picture Resolution (px)	HD 1280x720
NV Detection Range (yd/m)	219/200
Battery Type	4xAA
Battery Life (hrs)	IR 1.5 (high) - 5 (low) Daytime 8
External Power	5V USB-C
Mount	-Tripod, Head Strap
Dimensions (in/mm)	5.7x5.8x2.2 144.7x14.3x55.8
Weight (oz/g)	19.1 / 542
Material	ABS + PC

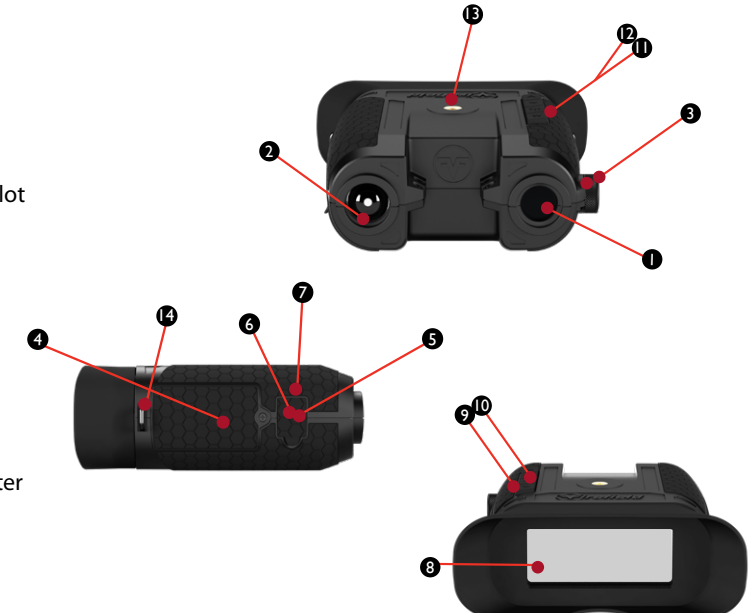
Mount type	NVG helmet shroud
Material	Polymer
Dimensions (in/mm)	2.2x1.65x1.22 / 56x42x31

INCLUDES:

- NVG Head Mount
  1/4" Thread to 2 Prong Adapter
  (2) Extension Arms
  (3 Adjustment Knobs
  Head Strap
- 4x AA Batteries
- Neck Strap
- Carrying Case
- 0.3mm USB-C to USB Cable

DIAGRAM

1. Objective
2. IR
3. Focus Dial
4. Battery Door (2)
5. Micro Memory Card Slot
6. USB-C Port
7. Port Cover
8. Display
9. M Button
10. Power Button
11. Up Button
12. Down Button
13. Mounting Point
14. Neck Lanyard
15. Thread Mount Adapter
16. Extension Arm
17. Head Strap
18. Screw Tensioner



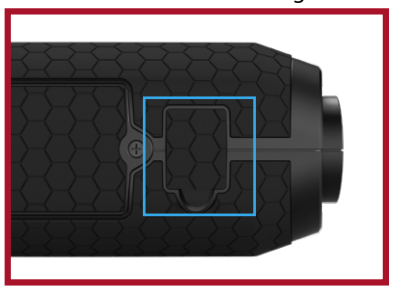
SET UP

Batteries – The Firefield Hexcore HD uses 4 AA batteries. To change the batteries

1. Using a Phillips screwdriver, loosen the screw on the battery door (4) on each side of the unit.
2. Remove the battery door after the screw is fully loosened.
3. Remove any dead batteries by gently pulling on the ribbon.
4. Install 2 AA batteries on each side of the unit, making sure that the positive and negative sides match the markings in the battery compartment.
5. Reinstall the battery doors and tighten the screws to finish changing your batteries (make sure to not overtighten!) While reinstalling the battery doors, make sure the ribbon is securely tucked underneath and not sticking out.

External Power – The Hexcore HD is equipped with a USB-C port for external power. The USB port is located under the rubber Port Cover (7) on the side of the unit. To use the external power port

1. Lift the rubber cover on the side of the unit to expose the USB-C port (6).
2. Install a USB-C port attached to an external power supply (for example, a battery pack).
3. Your device is now running on the external power supply



Micro Memory Card – The Hexcore HD is equipped with a Micro memory card slot used for recording. The card slot is located under the rubber Port Cover (7) on the side of the unit. To install a Micro Memory Card:

1. Lift the rubber cover on the side of the unit to expose the Micro Memory Card slot (5).
2. Insert the memory card contacts first, with the contacts facing the display (8) side of the unit and gently, but firmly, push the card in until you hear a soft "click".
3. Close the rubber cover to seal the ports.
4. The memory card is removed from the unit by gently pushing the card in until it clicks to release. Then release the pressure from pushing and let the card pop out.

Mounting – The Hexcore can be mounted on the user's head using the included accessories. To mount:

1. Assemble the head strap assembly (If the head strap assembly is already assembled, skip to step 4) by attaching the threaded mount adapter (15) to an extension arm piece (16) by using a screw tensioner (18).
2. Next attach the thread mount adapter and arm piece to the second arm piece using another screw tensioner (18).
3. Finally, attach the arm assembly to the head strap (17) using the last screw tensioner (18).
4. Once the head strap is complete, attach the assembly to the Firefield Hexcore HD Binoculars by threading it completely into the Mounting hole (13) on the top of the unit (do not overtighten). Make sure the head strap band is facing towards the display (8) side of the unit. If it is facing towards the objective (1) instead, remove the first arm from the thread adapter and reinstall it in the opposite direction.

5. The unit position can be adjusted by loosening and tightening the screw tensioners (18) and moving the unit into the correct position for your eyes. Make sure to securely tighten the screw tensioners to make sure the unit does not fall out of position.

Mounting – The Hexcore can be mounted to a helmet with standard helmet mounting attachment points using the included accessories and with the Helmet Mount Adapter (FF18001.01) – sold separately. To attach:

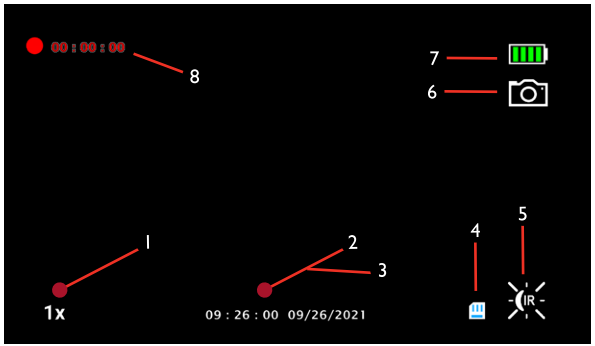
1. Assemble the helmet mount assembly (If the helmet mount assembly is already assembled, skip to step 4) by attaching the threaded mount adapter (15) to an extension arm piece (16) by using a screw tensioner (18).
2. Next attach the thread mount adapter and arm piece to the second arm piece using another screw tensioner (18).
3. Finally, attach the arm assembly to the helmet mount (19) using the last screw tensioner (18).
4. Once the helmet mount assembly is complete, attach the assembly to the Firefield Hexcore HD Binoculars by threading it completely into the Mounting hole (13) on the top of the unit (do not overtighten). Make sure the helmet mount assembly is facing towards the display (8) side of the unit. If it is facing towards the objective (1) instead, remove the first arm from the thread adapter and reinstall it in the opposite direction.

5. From here, the unit can be installed onto a compatible helmet mount by pressing the button on the helmet mount adapter (19) and inserting it into the helmet mount and releasing the button.
6. The unit position can be adjusted by loosening and tightening the screw tension (18) and moving the unit into the correct position for your eyes. Make sure to securely tighten the screw tensioners to make sure the unit does not fall out of position.

Focus Adjustment – To adjust focus:

1. Locate the focus dial (3)
2. Turn the adjustment forwards or backwards until the image becomes focused.

VIEWFINDER



1. Magnification
2. Time
3. Date
4. Micro Memory Card Status
5. Viewing Mode
   (Day/Night/Low IR/Mid IR/High IR)
6. Recording Mode (Video/Picture)
7. Battery Level
8. Recording

Viewfinder Controls:

• Swap Modes – to swap modes press the M (9) button. Unit will swap from Video -> Picture -> Playback and then cycle back.

• Menu – to access the menu, hold the M button

• To start recording or capture an image, press the Power (10) button. Press the Power button again to stop recording.

• Power – to power the unit off, hold the Power button. Power – to power the unit off, hold the Power button.

• Digital Zoom – Press the Up (11) button on the top of the unit to adjust the magnification. The magnification will cycle continuously. Hold the Up button to decrease the magnification. This unit has a digital magnification range up to 3x.

o The unit can be easily swapped between max and min zoom by holding the Up button at 1x magnification and pressing the Up button at 3x magnification.

• IR Brightness – press the Down (12) button to cycle IR brightness levels from Off -> Low -> Mid -> High.

• Day/Night Mode– press and hold the Down button to toggle between day and night mode.

SETTINGS

1. Brightness
2. Time
3. Date
4. Format Memory Card
5. Update/Firmware

To Adjust Brightness

1. Open the menu by holding the M button and navigate to Brightness using the Up and Down buttons.
2. Use the M button to select Brightness and use the Up and Down buttons to adjust the slider up and down.
3. Press the M button to save the setting and exit the menu.

To Set the Time:

1. Open the menu by holding the M button and navigate to Time using the Up and Down buttons.
2. Use the M button to select Time and use the Up and Down buttons to adjust the number up and down. This unit uses a 24-hour time format. Hour/Minute/Second
3. Press the M button to advance the selection and save your setting.

To Set the Date:

1. Open the menu by holding the M button and navigate to Date using the Up and Down buttons.
2. Use the M button to select Date and use the Up and Down buttons to adjust the number up and down. The date format is Month/Day/Year
3. Press the M button to advance the selection and save your setting.

To Update The Firmware:

1. Confirm the batteries are full and/or connect external power.
2. Download the latest firmware from our website at www.Firefield.com
3. Copy the firmware file onto your micro memory card.
4. Insert the micro memory card into the unit's card slot (5).
5. Open the menu by holding the M button.
6. Navigate to the Update icon and press the M button to select.
7. Confirm in the menu that you want to update.
   - If there is no SD card installed, an icon will appear.
   - If there is no firmware to install, an icon will appear.
8. The unit will begin updating. Do not power off the unit.
9. When the update is complete the unit will restart. This can take a few minutes.

To Format The Micro Memory Card: - The unit uses a micro memory card to store video recordings and images. Before using it will have to be formatted.

1. Make sure all information on the micro memory card is saved on an external storage device. This process will wipe the card clean.
2. Install the micro memory card into the unit's card slot (5).
3. Open the Menu by holding the M button and navigate to the Format icon using the Up and Down buttons.
4. Press M button to select.
5. Navigate to the checkmark icon and press the M button to select.

6. The unit will display a green checkmark if the process was sucessfully completed.

PLAYBACK MODE

To watch playback of video:

1. In the video or picture mode, press the M button until you get to playback mode
2. Use the Up and Down buttons to navigate between your recorded media.
3. Press the Power button to enter full screen mode (images) or start playback (video).
4. During video playback, use the Power button to play/pause, the Up button to fast forward, and the Down button to rewind.
5. The unit will automatically exit playback once the video ends. You can stop playback and full screen manually by pressing the M button.

MAINTENANCE

Proper maintenance of the Firefield Hexcore HD Night Vision Binoculars is recommended to ensure longevity. It is recommended that when the binoculars become dirty, they should be wiped down with a dry or slightly damp cloth. Blow dirt and debris off all optics and then clean lenses with a lens cleaning cloth. To remove oils or dried water spots, apply a small amount of denatured alcohol to a lens cloth or cotton swab. Clean the surface of the lens and let it dry. No further maintenance is required. Do not attempt to disassemble any components of the binoculars.

STORAGE

Make sure that your Firefield Hexcore HD Night Vision Binoculars are off before storing. Place the binoculars in their carrying case and store it somewhere dry and cool away from water and edges where it can fall. It is recommended to remove batteries before storage.

WARNING

Before handling the Firefield Hexcore HD Night Vision Binoculars, read and understand the contents of your Firefield manual.

- Avoid hitting or dropping the unit.
- Avoid using the unit near or around water.
- Do not point at people or stare into the IR LED. This can cause serious harm.
- Only use correct batteries in the unit.
- Use a Class 10 micro memory card for the best experience.

TROUBLESHOOTING

Proper authorization is required before shipping any product back to Firefield. Failure to obtain authorization could result in your product being returned to the wrong address, lost, or damaged. Firefield is not liable for products returned without authorization.

IF THE BINOCULARS DO NOT TURN ON:

1. Check that the batteries are installed correctly and fully charged.
2. Check that there is no residue, film, or corrosion on the batteries that may prevent them from working.

THE IMAGE IS BLURRY AND NOT IN FOCUS:

1. Check that the batteries are installed correctly and fully charged.
2. Check that there is no residue, film, or corrosion on the batteries that may prevent them from working.
3. Rotate the focus dial to adjust the focus until the image becomes clear and sharp.

THE BINOCULARS ARE NOT RECORDING VIDEO

1. Make sure that a micro memory card is properly installed and formatted.
2. Ensure the unit is in video mode.
3. Check to see if the micro memory card's memory is full.
4. Ensure the micro memory card is 64 GB or less.
5. Make sure a Class 10 micro memory card is being used.

NOTES

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Please visit **www.FireField.com** for warranty details and information.

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