EXTECH Edger Video Borescope Wireless Inspection Camera User Manual

Contents

EXTECH Edger Video Borescope Wireless Inspection Camera

Product Information

The Video Borescope Wireless Inspection Camera is available in three models: BR200, BR250, and KITS. It features a waterproof camera head with a flexible cable, LED lamps with dimmer for illumination, and a glare-free close-up field of view. The camera head comes in different diameters depending on the model: 17mm (BR200), 9mm (BR250), 4.5mm (BR250-4), or 5.2mm (BR250-5). The camera's IP67 rating ensures protection against water ingress.

The detachable color TFT monitor wirelessly displays video from the camera, allowing for remote viewing up to a maximum distance of 10m (33 ft.). The captured video and still images with date/time stamp can be viewed on the wireless monitor, an additional monitor connected via the video out jack, or a PC through a USB connection. The product also includes a micro SD memory card for storing images and video, which can be transferred to a PC via the included micro SD card adaptor.

The product supports menus in 10 languages: English, Chinese, German, French, Spanish, Portuguese, Italian, Japanese, Dutch, and Russian. It comes with various accessories such as a hook, mirror, and magnet attachment for the BR200 and BR250 models. The package includes four AA batteries for the camera controller, a rechargeable battery for the monitor, USB cable, video connect cable, AC adaptor (with adapters for US, UK, EU, AUS), magnetic mount for the monitor, and a hard case for storage.

Product Usage Instructions

Safety Precautions

- Do not expose the instruments to moisture.
- Turn off the power when the instruments are not in use.
- Remove the batteries from the camera controller before cleaning.
- Replace all batteries at the same time.

Supplied Equipment

1. Camera controller
2. Color TFT monitor
3. AC adaptor for monitor's rechargeable battery
4. Video cable for connecting an additional monitor
5. Accessories (magnet, hook, mirror) – BR200/BR250 only
6. Magnetic mount for the monitor
7. Flexible cable and camera head

8. Four AA batteries for the camera controller (included)
9. Micro SD card and adaptor (not shown)

Description of Components

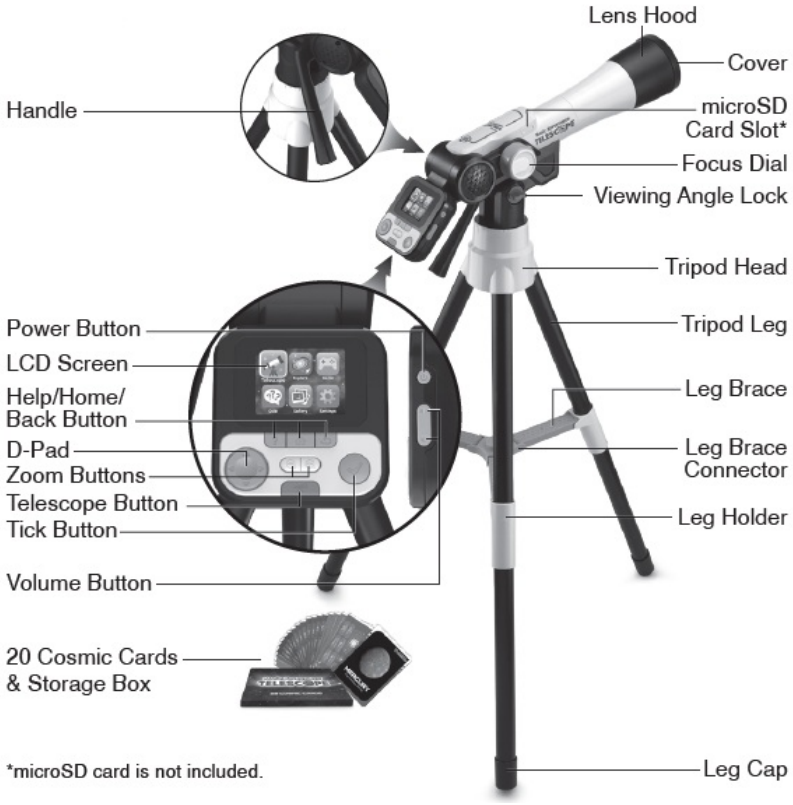
1. Monitor mount (signal output)
2. Camera controller power indicator
3. Camera controller power ON/OFF switch and LED dimmer
4. Flexible cable
5. Camera head and LEDs
6. OK button
7. Up arrow and video/image button
8. Menu button
9. Down arrow button
10. Monitor power ON/OFF button
11. Monitor power indicator
12. USB jack for PC connection
13. Video output jack for alternate monitor
14. SD card slot
15. AC power adaptor jack
16. Reset button
17. Monitor mount (input signal)

Preparation for Use – Camera Controller Power

1. Insert the four AA batteries (supplied) into the battery carrier located in the camera controller's handle. Ensure correct polarity when installing the batteries.
2. Dispose of used batteries or rechargeable batteries at appropriate collection sites or return them to the retail store where they were purchased. Do not dispose of them in household waste.
3. To dispose of the product itself, take it to a designated collection point for the disposal of electrical and electronic equipment.

INTRODUCTION

Thank you for purchasing the Magic Adventures™ Telescope. Explore the Moon and the world around you with this real-working telescope! Take photos of what you see on the screen and save them to your gallery. Explore 100+ NASA images and videos, test your knowledge in the cosmic quiz, and visit every planet in our solar system in the educational adventure game. Scientists constantly learn new things about space so the sky's the limit in this full-function, interactive, fun-packed telescope. Lens Hood



INCLUDED IN THE PACKAGE

- Magic Adventures™ Telescope
- 20 cosmic cards
- 1 cosmic cards storage box
- 1 Instruction Manual
- 1 Quick Start Guide

WARNING
All packing materials such as tape, plastic sheets, packaging locks, removable tags, cable ties, cords and packaging screws are not part of this toy, and should be discarded for your child's safety.

NOTE
Please keep this Instruction Manual as it contains important information.

INSTRUCTIONS

- **WARNING**
  - Adult assembly required for battery installation.
  - Keep batteries out of reach of children.

BATTERY REMOVAL AND INSTALLATION

1. Make sure the unit is turned OFF.
2. Locate the battery cover on the back of the LCD Screen. Use a screwdriver to loosen the screw and then open the battery cover.

3. If used batteries are present, remove these batteries from the unit by pulling up on one end of each battery.
4. Install 4 new AA (AM-3/LR6) batteries following the diagram inside the battery box. (For best performance, alkaline batteries or fully charged Ni-MH rechargeable batteries are recommended).
5. Replace the battery cover and tighten the screw to secure.

IMPORTANT: BATTERY INFORMATION

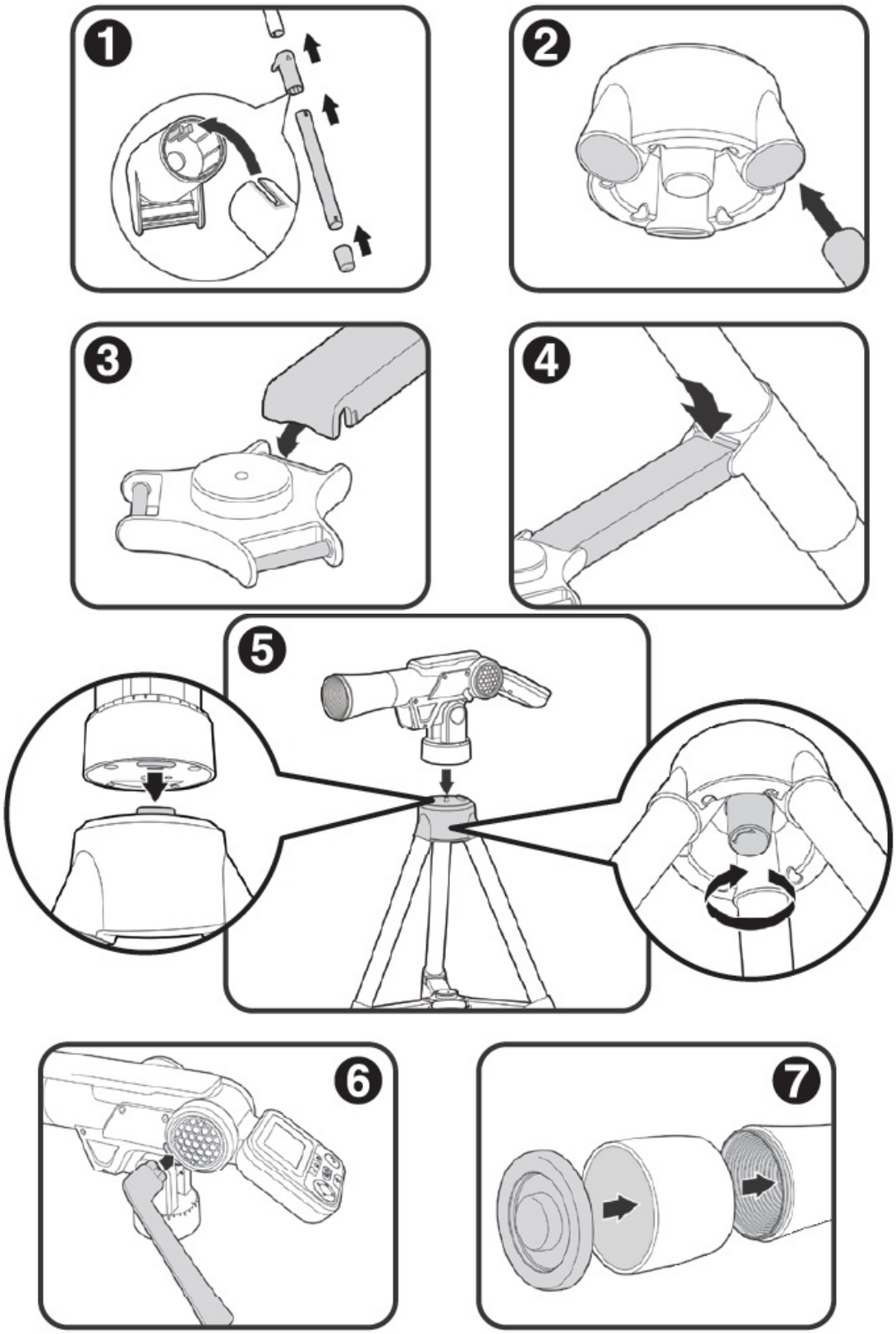
- Insert batteries with the correct polarity (+ and -).
- Do not mix old and new batteries.
- Do not mix alkaline, standard (carbon-zinc) or rechargeable batteries.
- Only batteries of the same or equivalent type as recommended are to be used.
- Do not short-circuit the supply terminals.
- Remove batteries during long periods of non-use.
- Remove exhausted batteries from the toy.
- Dispose of batteries safely. Do not dispose of batteries in fire. RECHARGEABLE BATTERIES:
- Remove rechargeable batteries (if removable) from toy before charging.
- Rechargeable batteries are only to be charged under adult supervision.
- Do not charge non-rechargeable batteries.

Disposal of batteries and product

- The crossed-out wheelie bin symbols on products and batteries, or on their respective packaging, indicates they must not be disposed of in domestic waste as they contain substances that can be damaging to the environment and human health.
- The chemical symbols Hg, Cd or Pb, where marked, indicate that the battery contains more than the specified value of mercury (Hg), cadmium (Cd) or lead (Pb) set out in the Batteries and Accumulators Regulation.
- The solid bar indicates that the product was placed on the market after 13th August, 2005.
- Please dispose of your product and batteries responsibly.
- In the UK, give this toy a second life by disposing of it at a small electricals collection point* so all of its materials can be recycled. Learn more at:
    - **www.leapfrog.co.uk/recycle**
    - **www.leapfrog.com.au/recycle**
    - * Visit **www.recyclenow.com** to see a list of collection points near you.

ASSEMBLY INSTRUCTIONS

Adult assembly required. For your child’s safety, do not let your child play with this product until it is fully assembled.



PRODUCT FEATURES

1. **Power Button**

   Press the Power Button to power on the Magic Adventures™ Telescope.

   - It may take up to 3 seconds for the device to power on if a microSD card is inserted.
   - Hold down the Power Button for approximately 1 second to power off the device.

2. **D-Pad** 

- Press the D-Pad to select an item on the Menu screen. While in Telescope mode, press the D-Pad to change the photo settings. While playing the Robot Reboot! adventure game, press the D- Pad to move the ship around the screen.

3. **Tick Button** 

   Press the Tick Button to make a selection on a menu, take photos in Telescope mode, play fun facts in Explore mode, or activate the ship's shield in the Robot Reboot! adventure game.

4. **Help Button** 

   Press the Help Button to hear hints and instructions.

5. **Back Button** 

   Press the Back Button to return to the previous screen.

6. **Telescope Button** 

   Press the Telescope Button to enter the Telescope mode and explore objects in the night sky or during the day.

7. **Focus Dial** 

   In Telescope mode, turn the Focus Dial to make objects appear closer or further away and to focus the image on the screen.

8. **Magnification Buttons**

   While in Telescope mode or while viewing medium or high-quality photos in Gallery mode, press the Magnification Button for a closer look at the image on the screen, and press the Magnification Button to return to the previous viewing size of the image on the screen. While in Explore mode, press the Magnification Button to see a full screen version of the image on the screen, and press the Magnification Button to return to the previous viewing size.

9. **Home Button** 

   Press the Home Button in any mode to go back to the Main Menu

10. **Volume Control Button** 

    Press the Volume Control Button to adjust the volume. Press  the button to lower  the volume, and the the volume.

11. **Take Photos**

    Press the Tick Button in Telescope mode to take photos. Your photos can be viewed in the Gallery.

12. **microSD Card Slot** 

    Use the microSD Card Slot to insert a microSD card (not included) and save more photos. You can also copy saved photos from the telescope's internal memory to your computer using a microSD card. See details in the Gallery section.

TO BEGIN PLAYING

Press the Power Button to turn on the unit.

Telescope Mode

Press the Telescope Mode Button or select Telescope mode from the Main Menu to explore the moon and stars in

the night sky. The following functions are available in Telescope mode:

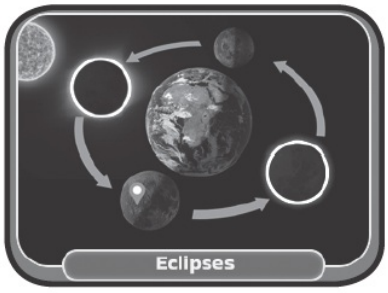
- Use the D-Pad to change the settings for capturing photos in Telescope mode.
- Turn the Focus Dial to adjust the focus and image quality on the screen.
- Press the Magnification Button for a closer look at the image on the screen, and press the Magnification Button to return to the previous viewing size of the image on the screen.
- Press the Tick Button to take photos of what's displayed on the screen.

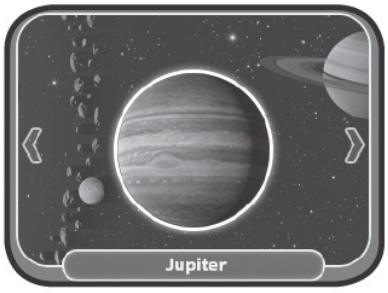
microSD Card Slot

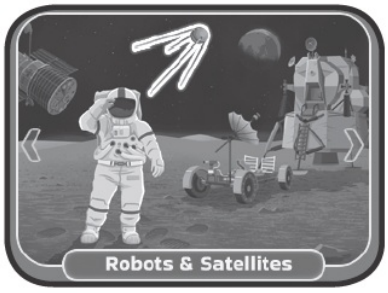
- If no microSD card is inserted into the device, photos will be saved to the unit's internal memory, which can hold about 100 images (in low resolution) or 10 images (in high resolution).
  NOTE: This number will vary depending on the number of colours in the photo. Photos with more colours take up more memory, whereas photos with fewer colours take up less memory.
- If a microSD card (not included) is inserted into the microSD Card Slot, all photos taken will be saved to the microSD card. The Magic AdventuresTM Telescope supports microSD cards up to 32GB.
- The maximum number of photos that can be taken is 30,096.
- If more than 30,096 pictures are taken, the device will overwrite existing photos with the same file name.
- Removing the microSD card or powering off the unit while taking a photo, deleting a photo, overwriting an existing photo, or while transferring a photo to the microSD card may cause the unit to freeze or result in the creation of corrupted photos. Corrupted photos will be displayed with an error icon in the Gallery.

Explore Mode
In Explore mode, choose from six categories of images and videos from NASA. Deepen your space knowledge with what scientists know today and prepare for new discoveries such as moons, rings, and other celestial bodies in the future.

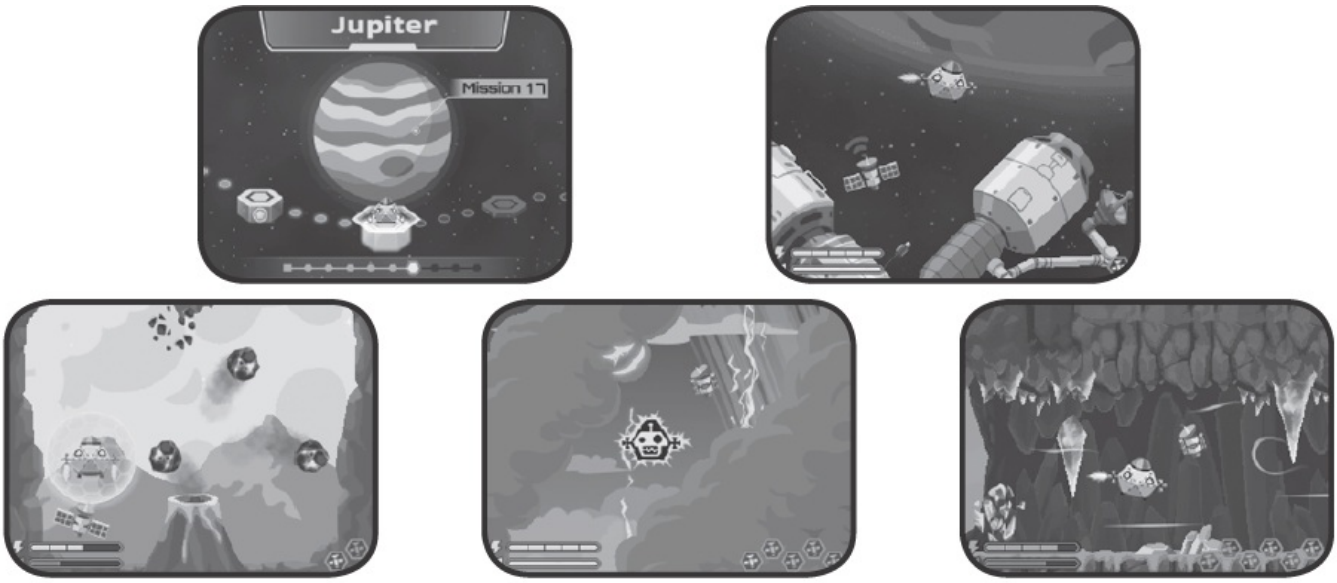
- Earth’s Moon
- Constellations
- Our Solar System
- Space Expeditions
- Lives of Stars
- Looking Up







Robot Reboot! Adventure Game
In the Robot Reboot! adventure game, steer your spacecraft to each location in our solar system. Power on all the satellites and reboot the data robots so their observations can reach Mission Control. Play 27 exciting levels.



Cosmic Quiz
See if you can figure out what each Explore mode image is in this fun quiz. Listen to the question and then select the correct picture or sequence of pictures.

Gallery

- Photos that you take in Telescope mode can be found here.
- You can also delete* saved photos in the Gallery.
- While deleting photos, do not remove the microSD card or power off the unit. Doing so may corrupt the photos or cause the unit to freeze. Corrupted photos will be displayed in the
- Gallery with an error icon .
- If the microSD card has a large number of saved photos, it is normal for the deletion process to take longer.

SETTINGS

In the Settings menu, change the following settings

- **Screen Brightness**
  Adjust the brightness of the LCD screen.
- **Location**
  Select Northern or Southern Hemisphere.
- **Photo Quality**

Higher quality photos take up more
memory and lower quality photos take up less memory.

- **Shutter Timer**
  Adjust the timer for taking a picture after pressing the Tick Button.
- **Scene Recognition Mode**
  Change the lighting environment to better see what's on the LCD Screen in Telescope mode.

How To Copy Saved Photos From the Telescope to a Computer

1. Insert a microSD card** into the microSD Card Slot of the unit.
2. In the Gallery, select the Photo Transfer icon to transfer all of your saved photos from the unit's internal memory to the inserted microSD card.
3. After the photo transfer is completed***, take the microSD card out of the unit and insert it into a computer.
4. The saved photos**** are located in the microSD card's folder #TELESCOPE/XX/YY. XX is a two-digit number from 01 to 16 that will be assigned to the folder name. YY is another two-digit number from 01 to 19 that will be assigned to the sub-folder name.
5. Copy the folder #TELESCOPE directly to the computer. DO NOT cut and paste the files individually from this folder.

- The unit supports microSD cards up to 32GB (not included).
- During the photo transfer process, do not remove the microSD card or power off the unit. Doing so may corrupt the transferring photo or cause the unit to freeze. Corrupted photos will be displayed in the Gallery with an error icon .
- The saved photos will display a time and date that is not accurate, since the device does not have an internal clock.

NOTE

- Do not rename, edit or delete the folder #TELESCOPE or any of its sub-folders.
- Do not add any folders to the folder #TELESCOPE or any of its sub-folders.
- Do not rename, edit or delete any files in the folder #TELESCOPE or any of its sub-folders.
- Do not add any files to the folder #TELESCOPE or any of its sub-folders.

If a microSD card is inserted into the device with renamed, edited, deleted, or added folders or files, the Gallery may exhibit the following unexpected behaviours:

- Some saved photos may not be displayed.
- Some saved photos may be displayed with an error icon .
- The display order of the saved photos may be incorrect. New photos that are taken while in Telescope mode may not be displayed on the first page of the Gallery.
- The thumbnails and the full-screen photos may not match each other.

This may also cause unexpected behaviour when trying to take more photos while in Telescope mode:

- The device may request to overwrite existing photos that share the same filename as the new photo being taken.

Parent Menu
A Parent Menu is available in case parents need to reset the device or reformat it. Below are the Parent Menu options.

- **Option 1:** Reset all curricular and game progress data.
- **Option 2**: Remove all Gallery photos stored on the device.
- **Option 3:** Reformat the internal storage on the device. All curricular and game progress data will be reset, and the Gallery photos stored on the device will be removed.

Warning: All of the actions listed above cannot be reversed once initiated.

The Parent Menu can be accessed by pressing the following sequence of buttons while viewing the Main Menu: Up, Volume Up, Down, Volume Down, Help, Help, then hold the Back Button for more than 3 seconds.

Battery Status
When the batteries are almost depleted, a low battery icon will flash on the LCD Screen. Please replace the batteries immediately when this icon appears. The unit may automatically power off if the batteries are not replaced soon after the low battery icon appears.

Automatic Shut-Off
To preserve battery life, the Magic Adventures™ Telescope will automatically dim the LCD Screen after approximately 5 minutes without input, then power down after approximately 10 minutes without input. Press any button before the device shuts off to return the LCD Screen to its normal brightness level. Once the unit is powered down, press the Power Button to power it back on again.

COSMIC CARDS
20 collectible cards are included with the Magic Adventures™ Telescope. Each card features a detailed image of an object in space on one side, and informative facts and stats on the other side.

PHOTO TAKING TIPS

1. **When Taking Photos Indoors**
   Since the telescope is designed to take outdoor photos, taking photos of objects indoors will require sufficient light. Indoor photos taken under regular lighting conditions may look darker than expected.
2. **When Taking Photos of the Night Sky:**
   This telescope cannot take photos of distant stars. It can only clearly capture the larger moon in the night sky.
3. **Setting a Timer**
   When taking a photo of distant objects, slight shaking can affect the quality of the captured image (such as wind or slight vibrations generated when pressing the Tick Button). Aside from using the Focus Dial to get a clearer photo, it is recommended to set a timer before taking a photo to reduce the impact of shaking on the captured image.
4. **How to Achieve 110x Zoom Magnification**
   The telescope is equipped with an optical lens with 24.5x optical magnification (relative to a standard lens with 48 degrees diagonal field of view). In addition, the Digital Zoom Button features 4.5x digital magnification, which when combined with the optical lens provides up to 110x magnification.

TROUBLESHOOTING

Problem	Possible Solution(s)
The unit stopped working	1. Press and hold the **Power Button** for more than 10 seconds. 2. Release the **Power Button** and the unit will power back on again. It should now work properly. 3. If the unit does not work, change the batteries and press the **Power Button** to t urn on the unit.
Screen is not working corr ectly	1. Press and hold the **Power Button** for more than 10 seconds. 2. Release the **Power Button** and the unit will power back on again. It should now work properly.

Telescope mode (without microSD card inserted) – save failed when taking p hotos	Restart the unit by pressing the **Power Button** and try again.
	1. Enter the Parent Menu (see the Parent Menu section for how to access this scre en). 2. Select Option 2 and confirm. Once the process is finished, it should be okay to t ake photos while in Telescope mode. 3. If it still isn't working correctly, select Option 3 in the Parent Menu and confirm. **NOTE:** Options 2 and 3 in the Parent Menu will remove all the saved photos from t he internal memory. Please backup any wanted photos by transferring them to a mi croSD card first. After the photo transfer is complete, remove the microSD card. Se e the Gallery section for how to transfer photos to the microSD card.
Telescope mode (with mic roSD card inserted) memo ry card error or save failed when taking photos	Make sure the microSD card is not larger than 32GB.
	Format the microSD card in your computer and try again. **NOTE:** All the files from the microSD card will be removed. Please backup any wa nted photos by transferring them to a computer first.
Telescope mode (without microSD card inserted) • an overwrite prompt ap pears every time a pho to is taken	1. Enter the Parent Menu (see the Parent Menu section for how to access this scre en). 2. Select Option 2 and confirm. Once the process is finished, the overwrite prompt should no longer appear every time a photo is taken. **NOTE:** Option 2 in the Parent Menu will remove all the saved photos from the inter nal memory. Please backup any wanted photos by transferring them to a microSD card first. After the photo transfer is complete, remove the microSD card. See the Gallery section for how to transfer photos to a microSD card.

Telescope mode (with microSD card inserted) an overwrite prompt appears every time a photo is taken	Use a different microSD card that does not contain any previously saved photos from the telescope.
	1. Enter the Parent Menu (see the Parent Menu section for how to access this screen). 2. Select Option 2 and confirm. Once the process is finished, the overwrite prompt should no longer appear every time a photo is taken. **NOTE:** Option 2 in the Parent Menu will remove all the saved photos from the internal memory. Please backup any wanted photos by transferring them to a microSD card first. After the photo transfer is complete, remove the microSD card. See the Gallery section for how to transfer photos to a microSD card.
Gallery – photo transfer failed	Make sure the microSD card is not larger than 32GB.
	Format the microSD card in your computer and try again. **NOTE:** All the files from the microSD card will be removed. Please backup any wanted photos by transferring them to a computer first.
Gallery (without microSD card inserted) – new photos taken in Telescope mode are not displayed on the first page of the Gallery	1. Enter the Parent Menu (see the Parent Menu section for how to access this screen). 2. Select Option 2 and confirm. Once the process is finished, new photos taken in Telescope mode should be displayed on the first page of the Gallery. **NOTE:** Option 2 in the Parent Menu will remove all the saved photos from the internal memory. Please backup any wanted photos by transferring them to a microSD card first. After the photo transfer is complete, remove the microSD card. See the Gallery section for how to transfer photos to a microSD card.

Gallery (with microSD card inserted) – new photos taken in Telescope mode are not displayed on the first page of the Gallery	Use a different microSD card that does not contain any previously saved photos from the telescope.
	1. Enter the Parent Menu (see the Parent Menu section for how to access this screen). 2. Select Option 2 and confirm. Once the process is finished, new photos taken in Telescope mode should be displayed on the first page of the Gallery. **NOTE:** Option 2 in the Parent Menu will remove all the saved photos from the internal memory. Please backup any wanted photos by transferring them to a microSD card first. After the photo transfer is complete, remove the microSD card. See the Gallery section for how to transfer photos to a microSD card.
Gallery is always inaccessible or freezes	Remove the microSD card (if inserted).
	If a microSD card is being used, • Use a different microSD card that does not contain any previously saved photos from the telescope.] • Format the microSD card on your computer and try again. **NOTE:** All the files from the microSD card will be removed when it is formatted on your computer. Please backup any wanted photos onto your computer first if needed.
	1. Enter the Parent Menu (see the Parent Menu section for how to access this screen). 2. Select Option 2 and confirm. Once the process is finished, the Gallery should be accessible. **NOTE:** Option 2 in the Parent Menu will remove all the saved photos from the internal memory.

PHOTO & VIDEO CREDIT

Our Solar System	The Sun	Overview	Image	NASA/SDO
Our Solar System	The Sun	Feature	Image	GSFC + NASA Goddard

Our Solar System	Mercury	Overview	Image	JPL + NASA/Johns Hopkins University Applied Physics Laboratory/Carnegie Institution of Washington

Our Solar System	Mercury	Feature	Image	JPL + NASA/Johns Hopkins University Applied Physics Laboratory/Carnegie Institution of Washington
Our Solar System	Venus	Overview	Image	NASA’s Goddard Space Flight Centre
Our Solar System	Venus	Feature	Image	JSC
Our Solar System	Earth	Overview	Image	MSFC
Our Solar System	Earth	Moons	Image	NASA/NOAA
Our Solar System	Earth	Feature	Image	NASA
Our Solar System	Mars	Overview	Image	NASA/JPL/Malin Space Science Systems
Our Solar System	Mars	Moons	Image	JPL + NASA/JPL-Caltech/ GSFC/Univ. of Arizona
Our Solar System	Mars	Feature	Image	ESA/DLR/FU Berlin
Our Solar System	Asteroid Belt	Overview	Image	JPL + NASA/JPL-Caltech
Our Solar System	Asteroid Belt	Eros	Image	JPL + NASA/JPL/JHUAPL
Our Solar System	Asteroid Belt	Ceres	Image	JPL + NASA/JPL-Caltech/ UCLA/MPS/DLR/IDA
Our Solar System	Jupiter	Overview	Image	NASA, ESA, A. Simon (Goddard Space Flight Centre), and M.H. Wong (University of California, Berkeley)

Our Solar System	Jupiter	Moons	Image	JPL + NASA/JPL/DLR
Our Solar System	Jupiter	Rings	Image	NASA, ESA, Jupiter ERS Team; image processing by Ricardo Hueso (UPV/EHU) and Judy Schmidt
Our Solar System	Jupiter	Feature	Image	NASA/JPL-Caltech/SwRI/ MSSS/Gerald Eichstadt/ Sean Doran © CC NC SA
Our Solar System	Saturn	Overview	Image	JPL + NASA/JPL-Caltech
Our Solar System	Saturn	Moons	Image	NASA/JPL/SSI
Our Solar System	Saturn	Rings	Image	NASA/JPL-Caltech/Space Science Institute
Our Solar System	Saturn	Feature	Image	JPL + NASA/JPL-Caltech/ SSI
Our Solar System	Uranus	Overview	Image	NASA/JPL-Caltech.
Our Solar System	Uranus	Rings	Image	MSFC
Our Solar System	Uranus	Feature	Image	GSFC + NASA Goddard
Our Solar System	Neptune	Overview	Image	NASA/JPL
Our Solar System	Neptune	Moons	Image	NASA/JPL/USGS
Our Solar System	Neptune	Rings	Image	NASA, ESA, CSA, STScI
Our Solar System	Neptune	Feature	Image	JPL + NASA/JPL
Our Solar System	Kuiper Belt	Overview	Image	ESO/M. Kornmesser

Our Solar System	Kuiper Belt	Pluto	Image	JPL + NASA/Johns Hopkins University Applied Physics Laboratory/Southwest Research Institute
Our Solar System	Kuiper Belt	Haumea	Image	NASA Visualisation Technology Applications and Development (VTAD)
Our Solar System	Kuiper Belt	Eris	Image	JPL + NASA/JPL Caltech
Our Solar System	Kuiper Belt	Makemake	Image	NASA Visualisation Technology Applications and Development (VTAD)
Our Solar System	Oort Cloud	Comet	Image	ESA/Rosetta/NAVCAM
Earth’s Moon	Moon Phases	New Moon	Image	NASA/Goddard Space Flight Centre/Scientific Visualisation Studio
Earth’s Moon	Moon Phases	Waxing Crescent	Image	GSFC + NASA Goddard
Earth’s Moon	Moon Phases	First Quarter	Image	GSFC + NASA Goddard
Earth’s Moon	Moon Phases	Waxing Gibbous	Image	GSFC + NASA Goddard
Earth’s Moon	Moon Phases	Full Moon	Image	NASA
Earth’s Moon	Moon Phases	Waning Gibbous	Image	GSFC + NASA Goddard
Earth’s Moon	Moon Phases	Third Quarter	Image	GSFC + NASA Goddard
Earth’s Moon	Moon Phases	Waning Crescent	Image	GSFC + NASA Goddard
Earth’s Moon	Moon Phases	Daytime Moon	Image	NASA/Bill Dunford

Earth’s Moon	Eclipses	Solar Eclipse from Earth	Image	NASA/MSFC/Joseph Matus
Earth’s Moon	Eclipses	Lunar Eclipse from Earth	Image	Public Domain
Earth’s Moon	Moon Map	Light Side	Image	GSFC + NASA Goddard
Earth’s Moon	Moon Map	Dark Side	Image	NASA/Goddard/Arizon State University
Space Expeditions	Robots & Satellites	Sputnik	Image	NASA
Space Expeditions	Robots & Satellites	Mariner 2	Image	NASA
Space Expeditions	Robots & Satellites	Pioneer 10	Image	NASA
Space Expeditions	Robots & Satellites	Voyager 1	Image	NASA/JPL-Caltech
Space Expeditions	Robots & Satellites	Genesis	Image	NASA / JPL
Space Expeditions	Robots & Satellites	Messenger	Image	JPL + NASA/Johns Hopkins University Applied Physics Laboratory/Carnegie Institution of Washington
Space Expeditions	Robots & Satellites	DART	Image	JPL + NASA/Johns Hopkins APL/Steve Gribben
Space Expeditions	Landers & Rovers	Lunar Roving Vehicle	Image	JSC
Space Expeditions	Landers & Rovers	Venera 7	Image	Public Domain
Space Expeditions	Landers & Rovers	Cassini – Huygens	Image	NASA/JPL-Caltech
Space Expeditions	Landers & Rovers	Rosetta	Image	ESA–C. Carreau/ATG medialab

Space Expeditions	Landers & Rovers	Insight	Image	JPL + NASA/JPL-Caltech
Space Expeditions	Astronauts & Rockets	Yuri Gagarin	Image	NASA
Space Expeditions	Astronauts & Rockets	Valentina Tereshkova	Image	NASA
Space Expeditions	Astronauts & Rockets	Reusable Shuttle	Image	AFRC + JSC
Space Expeditions	Astronauts & Rockets	Apollo 11	Image	JSC
Space Expeditions	Astronauts & Rockets	International Space Station	Image	JSC
Space Expeditions	Astronauts & Rockets	Reusable Rocket	Image	KSC + NASA/Kim Shiflett
Space Expeditions	Astronauts & Rockets	Artemis 1	Image	NASA/Bill Ingalls
Space Expeditions	Telescopes	Hubble Space Telescope	Image	GSFC
Space Expeditions	Telescopes	Spitzer Space Telescope	Image	NASA/JPL
Space Expeditions	Telescopes	James Webb Space Telescope	Image	NASA GSFC/CIL/Adriana Manrique Gutierrez
Lives of Stars	Sun-like Stars	Protostar	Image	NASA, ESA, T. Megeath (University of Toledo), and K. Stapelfeldt (Jet Propulsion Laboratory); • Processing: Gladys Kober (NASA/Catholic University of America)
Lives of Stars	Sun-like Stars	Sun-like Star	Image	NASA/SDO

Lives of Stars	Sun-like Stars	Red Giant	Image	NASA’s Goddard Space Flight Centre/Chris Smith (KBRwyle)
Lives of Stars	Sun-like Stars	Planetary Nebula	Image	NASA, ESA, CSA, STScI
Lives of Stars	Sun-like Stars	White Dwarf	Image	H. Bond (STScI), R. Ciardullo (PSU), WF PC2, HST, NASA
Lives of Stars	Massive Stars	Star-forming Nebula	Image	NASA, ESA, CSA, STScI, Webb ERO Pr oduction Team
Lives of Stars	Massive Stars	Protostar	Image	NASA, ESA, K. Luhman and T. Esplin (P ennsylvania State University), et al., and ESO; Processing: Gladys Kober (NASA/ Catholic University of America)
Lives of Stars	Massive Stars	Massive Star	Image	JPL / NASA/JPL-Caltech
Lives of Stars	Massive Stars	Red Supergiant	Image	ALMA (ESO/NAOJ/ NRAO)/E. O’Gorman/P. Kervella
Lives of Stars	Star Life Cycle	Supernova	Image	NASA/JPL-Caltech/STScI/ CXC/SAO Animation: NASA/JPL-Caltech/Univ. of Ariz./STScI/CXC/SAO
Lives of Stars	Massive Stars	Black Hole	Image	NASA’s Goddard Space Flight Centre/Je remy Schnittman
Lives of Stars	Massive Stars	Neutron Star	Image	X-ray (NASA/CXC/ESO/F. Vogt et al); Op tical (ESO/ VLT/MUSE & NASA/STScI)
Looking Up	Size & Shape	Structure	Image	NASA
Looking Up	Size & Shape	Milky Way Galaxy	Image	NASA/JPL-Caltech

Our Solar System	The Sun	Type of star, age	Video	NASA's Goddard Space Flight Centre
Our Solar System	Asteroids & Comets	**Asteroids**: Location, composition	Video	NASA/JPL Caltech + T. Matsopoulos, NASA, ESO/S. Brunier + NASA Science Cast
Our Solar System	Mercury	Planet Overview	Video	NASA/Johns Hopkins University Applied Physics Laboratory/Carnegie Institution of Washington
Our Solar System	Venus	Planet Overview	Video	NASA's Goddard Space Flight Centre + NASA's Goddard Space Flight Centre Conceptual Image Lab
Our Solar System	Earth	Planet Overview	Video	NASA Johnson Space Center + NASA/Goddard Space Flight Centre, The SeaWiFS Project and GeoEye, Scientific Visualisation Studio
Our Solar System	Mars	Planet Overview	Video	NASA/MAVEN/Lunar and Planetary Institute + NASA/ JPL-Caltech/University of Arizona/ASU/MSSS + NASA/ JPL-Caltech/ASU/MSSS
Our Solar System	Jupiter	Planet Overview	Video	GSFC / David Ladd
Our Solar System	Saturn	Planet Overview	Video	NASA/JPL Caltech
Our Solar System	Uranus	Planet Overview	Video	NASA/Space Telescope Science Institute (STScI) + NASA/JPL Caltech + NASA/ JPL/STScI + NASA/ JPL
Our Solar System	Neptune	Planet Overview	Video	NASA, ESA, and G. Bacon (STScI) **Science Credit**: The Hubble Heritage Team (STScI/AURA) and A. Simon-Miller (NASA Goddard) + NASA Science Cast

CARE & MAINTENANCE

1. Do not point the telescope directly at the sun. This can damage the device and cause the telescope to stop working.

2. Keep the unit clean by wiping it with a slightly damp cloth.
3. Keep the unit out of direct sunlight and away from any direct heat sources.
4. Remove the batteries if the unit will not be in use for an extended period of time.
5. Do not drop the unit on hard surfaces and do not expose the unit to moisture or water.
6. NEVER try to dismantle the unit.

Cleaning the LCD Screen

- Slightly dampen a soft, lint-free cloth with water and wipe the screen to loosen dirt.
- Using a clean and dry cloth, wipe the screen dry. Repeat these two steps as needed.

ENVIRONMENTAL PHENOMENA

The unit may malfunction if subjected to radio-frequency interference. It should revert to normal operation when the interference stops. If not, it may become necessary to turn the power Off and back On, or remove and reinstall the batteries. In the unlikely event of an electrostatic discharge, the unit may malfunction and lose memory, requiring the user to reset the device by removing and reinstalling the batteries.

WARNING

A very small percentage of the public, due to an existing condition, may experience epileptic seizures or momentary loss of consciousness when viewing certain types of flashing colours or patterns, especially on television. While the Magic Adventures™ Telescope does not contribute to any additional risks, we do recommend that parents supervise their children while they play video games. If your child experiences dizziness, altered vision, disorientation, or convulsions, discontinue use immediately and consult your physician. Please note that focusing on an LCD screen at close range for a prolonged period of time may cause fatigue or discomfort. We recommend that children take a 15-minute break for every hour of play.

OTHER NOTES

Static electricity may cause the Magic Adventures™ Telescope to malfunction. In cases where Magic Adventures™ Telescope is malfunctioning due to static electricity, reset the Telescope by pressing and holding the Power On/Off Button for about 10 seconds until the LCD Screen turns off, then wait for a while before restarting the unit.

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Documents / Resources

	**EXTECH Edger Video Borescope Wireless Inspection Camera** [pdf] User Manual BR200, BR250, BR250-4, Edger Video Borescope Wireless Inspection Camera, Video Borescope Wireless Inspection Camera, Wireless Inspection Camera, Inspection Camera, Camera, BR250-5

References

- **Extech is now on FLIR.com \| Teledyne FLIR**
- **Extech is now on FLIR.com \| Teledyne FLIR**