

Brinno TLC2020

Brinno Empower TLC2020 Time Lapse Camera with ATH1000 Waterproof Case Instruction Manual

Your guide to setting up, operating, and maintaining your Brinno TLC2020 Time Lapse Camera.

1. INTRODUCTION

This manual provides essential information for the proper use and care of your Brinno Empower TLC2020 Time Lapse Camera and ATH1000 Waterproof Case. Please read these instructions carefully before operating the device to ensure optimal performance and longevity.

The Brinno TLC2020 is designed for capturing high-quality time-lapse, step video, and stop motion footage, particularly for long-term outdoor projects, thanks to its extended battery life and durable waterproof housing.

2. PRODUCT OVERVIEW

2.1. Package Contents

- Brinno TLC2020 Time Lapse Camera
- Brinno ATH1000 Waterproof Case
- AA Batteries (4x)
- User Manual (this document)

2.2. Key Features

- **High-Resolution Capture:** 1080P HDR video recording.
- **Wide Field of View:** 118° lens for comprehensive scene capture.
- **Extended Battery Life:** Up to 99 days of recording with 4 AA batteries (5-minute interval).
- **Versatile Capture Modes:** Time-lapse, Step Video, and Stop Motion.
- **Durable Protection:** ATH1000 Waterproof Case for outdoor use.
- **Flexible Scheduling:** Daily timer and scheduling features to conserve battery.
- **Storage:** Supports Micro SD cards up to 128GB.
- **Portable Design:** Compact and easy to deploy.

2.3. Camera and Case Components



Figure 1: Brinno TLC2020 Time Lapse Camera and ATH1000 Waterproof Case. This image displays the camera unit alongside its transparent waterproof housing.



Figure 2: Front view of the Brinno TLC2020 Time Lapse Camera. The lens and indicator lights are visible.



Figure 3: Front view of the Brinno ATH1000 Waterproof Case. This transparent case provides protection for the camera.

3. SETUP

3.1. Battery Installation

1. Open the battery compartment cover on the side of the TLC2020 camera.
2. Insert four (4) AA batteries, ensuring correct polarity (+/-).
3. Close the battery compartment cover securely.

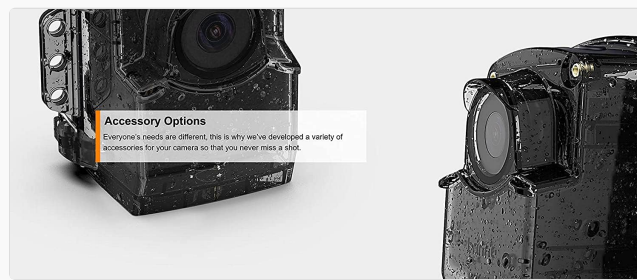


Figure 4: The Brinno TLC2020 camera with its battery compartment open, illustrating the insertion of AA batteries.

3.2. MicroSD Card Installation

1. Locate the MicroSD card slot, typically near the battery compartment.
2. Insert a MicroSD card (up to 128GB supported) into the slot until it clicks into place.
3. To remove, gently push the card until it springs out.



Figure 5: The Brinno TLC2020 camera shown with a 128GB MicroSD card, indicating the storage capacity.

3.3. ATH1000 Waterproof Case Assembly

1. Open the latches on the ATH1000 waterproof case.
2. Carefully place the TLC2020 camera inside the case, ensuring it fits snugly.
3. Close the latches firmly to seal the case. Verify the seal is complete before exposing to water.



Figure 6: The Brinno TLC2020 camera securely placed inside the ATH1000 waterproof case, ready for outdoor use.

3.4. Initial Power On and Settings

Press the power button to turn on the camera. The 2-inch screen will display the menu. Use the navigation buttons to set the date, time, and desired capture mode. Refer to the on-screen prompts for guidance.

4. OPERATING INSTRUCTIONS

4.1. Capture Modes

The TLC2020 offers three distinct capture modes:

- **Time-lapse:** Captures a sequence of photos at set intervals, automatically compiling them into a video. Ideal for monitoring construction projects, plant growth, or environmental changes.



Figure 7: Visual representation of time-lapse photography, showing scenes like construction, painting, and gardening over time.

- **Step Video:** Records short video clips at selected intervals. The camera combines these clips into a continuous video, suitable for dynamic storytelling or capturing movement.



Figure 8: Visual representation of step video recording, depicting short clips of a motorcycle ride and a camping scene.

- **Stop Motion:** Allows manual capture of multiple photos, one frame at a time. The camera then combines these into an animated video, perfect for creative projects.

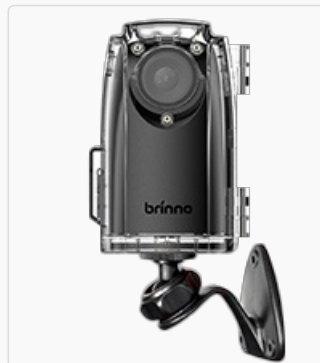


Figure 9: Visual representation of stop motion animation, showing a hand manipulating LEGO bricks to create an animated sequence.

4.2. Flexible Scheduling

Utilize the camera's daily timer and scheduling feature to select specific days and hours for recording. This extends battery life by preventing unnecessary recording during inactive periods.

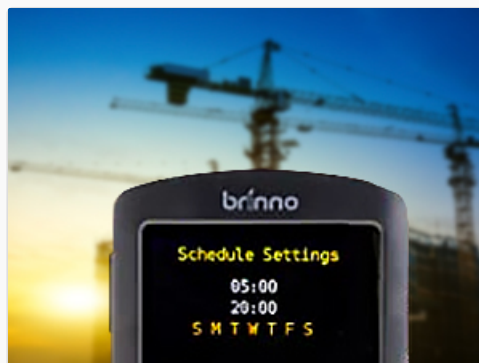


Figure 10: A close-up of the Brinno TLC2020 camera's screen displaying schedule settings, allowing users to define recording times.

4.3. Video Output and Sharing

Once recording is complete, the camera automatically processes the footage into an MP4 video file. This file is instantly available on the MicroSD card for transfer to a computer or other device for sharing.

5. MAINTENANCE

5.1. Battery Care

- Always use fresh, high-quality AA batteries.
- Remove batteries if the camera will not be used for an extended period to prevent leakage.
- Monitor battery levels regularly, especially during long-term projects.

5.2. Waterproof Case and Lens Care

- Regularly inspect the ATH1000 case for cracks or damage to maintain its waterproof integrity.
- Clean the case and camera lens with a soft, lint-free cloth. For stubborn dirt, use a mild cleaning solution and ensure no residue remains.
- Avoid abrasive materials that could scratch the lens or case.

5.3. Storage

Store the camera and case in a cool, dry place away from direct sunlight and extreme temperatures when not in use.

6. TROUBLESHOOTING

6.1. Camera Not Powering On

- Ensure batteries are correctly inserted and fully charged.
- Try replacing with new batteries.
- Verify the power button is pressed firmly.

6.2. Short Battery Life

- Utilize the flexible scheduling feature to record only during necessary periods.
- Ensure you are using high-quality alkaline or rechargeable AA batteries.
- Extreme cold temperatures can reduce battery performance.

6.3. Condensation Inside Waterproof Case

- Condensation can occur with significant temperature changes and high humidity.
- Place desiccant packets (silica gel) inside the case with the camera to absorb moisture.
- Ensure the camera and case are completely dry before sealing for outdoor use.

6.4. Recording Issues

- Check if the MicroSD card is properly inserted and has sufficient free space.
- Ensure the MicroSD card is formatted correctly (FAT32 or exFAT).
- Verify that the recording schedule and interval settings are configured as desired.

7. SPECIFICATIONS

Feature	Specification
Brand	Brinno
Model Number	TLC2020

Feature	Specification
Item Weight	1.34 pounds
Product Dimensions	1.5 x 4.5 x 4.5 inches
Batteries	4 AA batteries required
Color	Black
Photo Sensor Technology	CMOS
Video Capture Resolution	1080p
Maximum Focal Length	19 Millimeters
Maximum Aperture	2 f
Flash Memory Type	Micro SD (up to 128GB)
Video Capture Format	MP4
Supported Audio Format	AAC
Screen Size	2 Inches
Connectivity Technology	USB

8. WARRANTY AND SUPPORT

Brinno is committed to providing reliable products. For detailed warranty information, please refer to the official Brinno website or the warranty card included with your purchase. For technical support, product inquiries, or service, please visit the Brinno support page or contact their customer service directly. You can find more information and support resources on the official Brinno website: www.brinno.com



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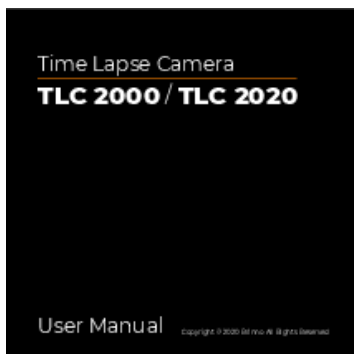
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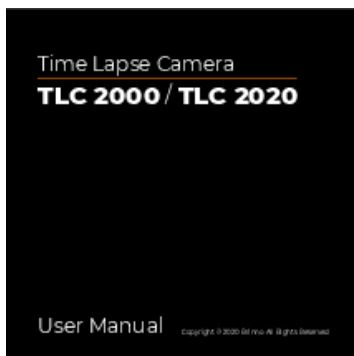


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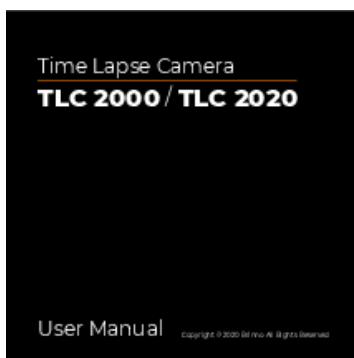


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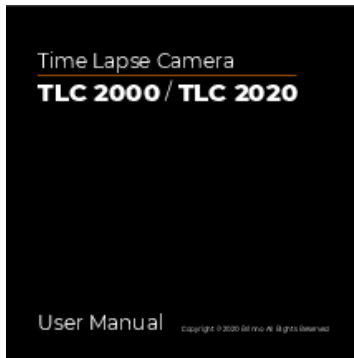


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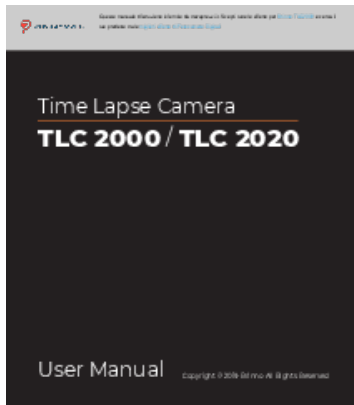
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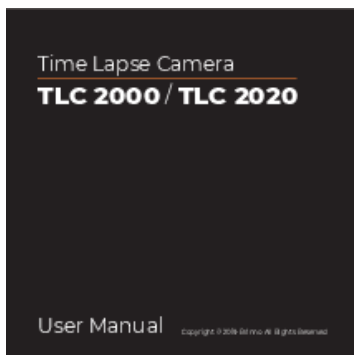


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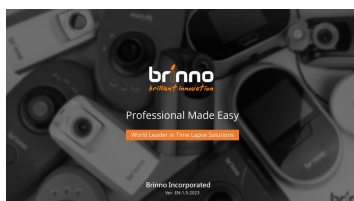
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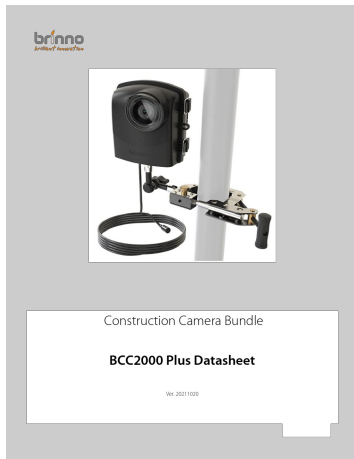


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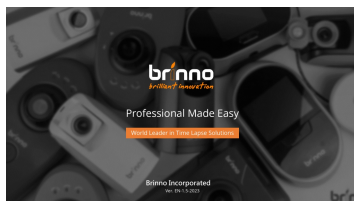
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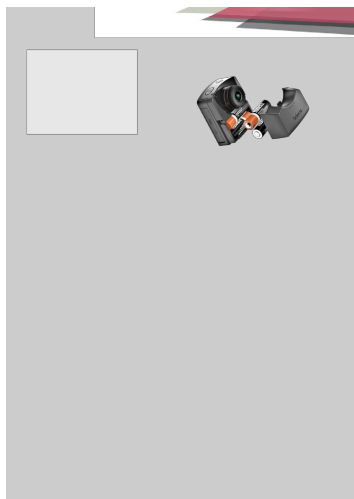


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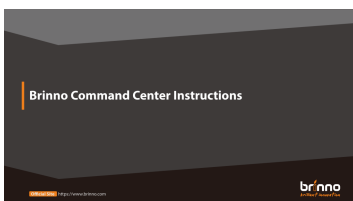
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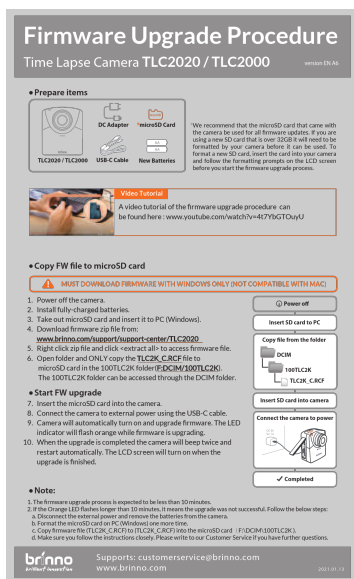
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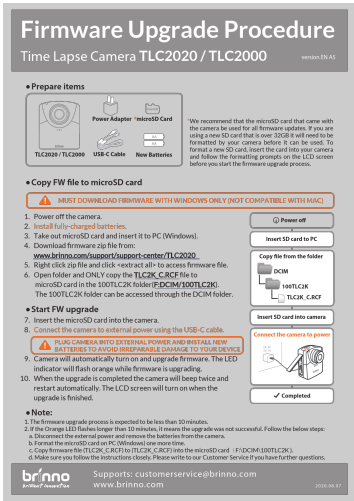
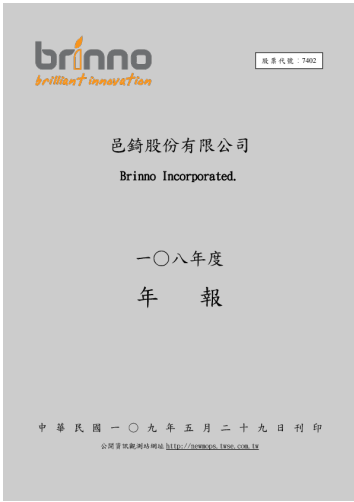
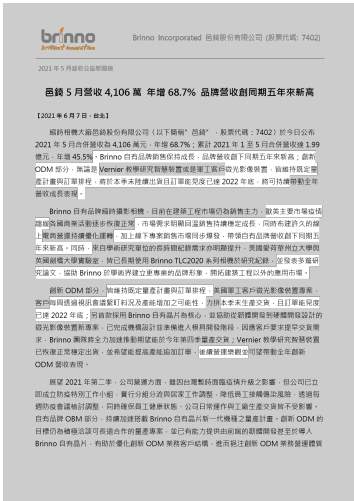
7402 Brinno Incorporated 2020 Corporate Social Responsibility Report : <https://mops.twse.com.tw/> ... 1 brinno / 16 Brinno Incorporated Corporate Social Responsibility Report 2020 TLC **TLC2020** Portable AA x 4 HDR SHC AA DIY WiFi MAC Portable 1 DIY 2 ODM P... lang:i-klnglon score:27 filesize: 5.33 M page_count: 52 document date: 2021-09-16



[Brinno Time Lapse Camera TLC2020/TLC2000 Firmware Upgrade Procedure](#)

Step-by-step guide for upgrading the firmware on Brinno Time Lapse Cameras TLC2020 and TLC2000. Includes preparation, file copying, and upgrade process.

lang:en score:24 filesize: 2.81 M page_count: 1 document date: 2021-01-13



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lang:tl **score:24** filesize: 579.31 K page_count: 2 document date: 2021-06-07

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BAC2000TLC200/**TLC2020** -36- timelapse photography all-in-one device brinno ... lang:i-klngon **score:24** filesize: 1.59 M page_count: 123 document date: 2020-06-09

[pdf]

Installation Guide TLC2020 TLC2000 FW UpgradeProcedure EN A5 20200701 Gary Firmware Upgrade Procedure Brinno

Power off the camera Install fully charged batteries Take out microSD card and insert it to PC Windows Download firmware zip file from brinno support firmware file Aug 07 2020 . 7 ago — 20200807

Firmware Upgrade Procedure Time Lapse Camera **TLC2020** / TLC2000 version EN A5 Prepare items microSD Power Adapter *microSD Card **TLC2020** / TLC2000 USB-C Cable New Batteries *We recommend that the microSD card that came with the camera be used for all firmware updates. If you are using a new SD ca...

lang:en **score:24** filesize: 503.78 K page_count: 1 document date: 2020-08-07

TLC2020-H Gehäusepaket

- Time Lapse
- Step Video
- Stop Motion
- HDR- und FHD-Bildgebungs-technologien
- Flexibel Zeitplan-Einrichtung
- Extra lange Akkulaufzeit – bis zu 82 Tage!
- Wechselobjektive
- LCD-Bildschirm
- Packungseinheit: TLC2020, ATH1000

Model NO.	TLC2020 - Zeitrafferkamera
Auflösung	1080p
Öffnung	F2.0
Sichtfeld	138°
Aufnahmemodus	Zeitraffer, Step-Video, Stop-Motion, Standbild
LCD-Bildschirm	2" TFT LCD
Speichertyp	microSD / microSDHC / microSDXC (bis 128 GB, empfohlen mindestens Klasse 10)
Energiequelle	4 AA-Batterien DC IN 5V 1A (USB-C-Anschluss)
Lebensdauer der Batterie	Bis zu 82 Tage im 5-Minuten-Intervall
Betriebstemperatur	0°C – 45°C
Größe (BxHxT)	60x70x46,6 mm
Gewicht	97,5 g (ohne Akku)

Housing Bundle
Recommended application: shooting indoor/outdoor projects

In the box

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[pdf] Declaration of Conformity

Kees Luijges Technisches Datenblatt Brinno TLC2020 Zeitraffer Kamera Set mit IP67 wasserdichtem Gehäuse ATH1000 bei HORNACH kaufen 10568113 Doc 01 DE 20220718094653 cdn hornbach de data shop D04 001 780 492 393 995 |||

Model NO. Auflösung ffnung Sichtfeld Aufnahmemodus LCD Bildschirm Speichertyp Energiequelle Lebensdauer der Batterie Betriebstemperatur Gre BxHxT Gewicht **TLC2020-H** Gehusepaket - Time Lapse - Step Video - Stop Motion - HDR- und FHD- Bildgebungs-technologien - Flexibel Zeitplan-Einrichtung - Extra la...

lang:de **score:24** filesize: 252.55 K page_count: 2 document date: 2022-05-31

BCC2000

- Zeitraffer/Step Video/Stop Motion
- HDR- und FHD-Bildgebungs-technologien
- Flexible Zeitplan-Einrichtung
- Wechselobjektive
- LCD Display Screen
- Wasserdichtes IPX5 Gehäuse mit 16-Batterie-zusatz Kompartiment
- Verstellbare Kamerahalterung
- Paket enthält: TLC2000, ACC1000, ATH2000

Model NO.	TLC2000
Auflösung	1080p
Öffnung	F2.0
Blickfeld	138°
Aufnahmemodus	Zeitraffer, Step-Video, Stop-Motion, Still Photo
Bildschirm	2" TFT LCD
Speicherung	microSD / microSDHC / microSDXC (bis 128 GB, empfohlen mindestens Klasse 10)
Stromquelle	2 AA-Batterien DC IN 5V 1A (USB-C connector)
Akkulaufzeit *2	Up to 10 hours at 1 sec. interval Up to 3.2 days at 5 min interval
Betriebstemperatur	0°C – 45°C
Größe (BxHxT)	30x 70 x 46,6 mm
Gewicht	87,5 g (without battery)

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Kees Luijges Technisches Datenblatt Brinno BCC2000 Kamera Plus Set mit Extender besteht aus TLC2000 ACC1000 ATH2000 bei HORNACH kaufen 10568112 Doc 03 DE 20220706074759 cdn hornbach de data shop D04 001 780 492 383 614 |||

BCC2000 Model NO. Auflösung ffnung Blickfeld Aufnahmemodus Bildschirm Speicherung Stromquelle Akkula ... Aluminium 750 g einschlielich Magic Arm ATH2000 IPX5 TLC200, TLC200Pro, TLC120, TLC130, TLC2000, **TLC2020** 16 AA-Batterien DC IN 5V 1A USB-C-Anschluss Kit-Objektivabdeckung Erweiterungsobjektivabde...

lang:de **score:23** filesize: 248.25 K page_count: 2 document date: 2021-08-05

TLC2020-M MOUNT-PAKET

- Time Lapse
- Step Video
- Stop Motion
- HDR- und FHD-Bildgebungs-technologien
- Flexibel Zeitplan-Einrichtung
- Extra lange Akkulaufzeit – bis zu 82 Tage!
- Wechselobjektive
- LCD-Bildschirm
- Packungseinheit: TLC2020, AWM100, ATH1000

Model NO.	TLC2020 - Zeitrafferkamera
Auflösung	1080p
Öffnung	F2.0
Sichtfeld	138°
Aufnahmemodus	Zeitraffer, Step-Video, Stop-Motion, Standbild
LCD-Bildschirm	2" TFT LCD
Speichertyp	microSD / microSDHC / microSDXC (bis 128 GB, empfohlen mindestens Klasse 10)
Energiequelle	4 AA-Batterien DC IN 5V 1A (USB-C-Anschluss)
Lebensdauer der Batterie	Bis zu 82 Tagen im 5-Minuten-Intervall
Betriebstemperatur	0°C – 45°C
Größe (BxHxT)	60x70x46,6 mm
Gewicht	97,5 g (ohne Akku)

Mount Bundle
Recommended application: shooting indoor/outdoor projects

In the box

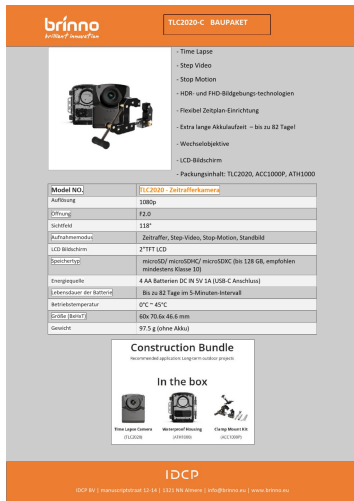
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[pdf] Declaration of Conformity

Kees Luijges Technisches Datenblatt Brinno TLC2020M Outdoor Zeitraffer Kamera mit Full HD IP67 Set besteht aus TLC2020 AWM100 ATH1000 bei HORNACH kaufen 10567960 Doc 02 DE 20220718084659 cdn hornbach de data shop D04 001 780 492 393 963 |||

Model NO. Auflösung ffnung Sichtfeld Aufnahmemodus LCD Bildschirm Speichertyp Energiequelle Lebensdauer der Batterie Betriebstemperatur Gre BxHxT Gewicht **TLC2020-M** MOUNT-PAKET - Time Lapse - Step Video - Stop Motion - HDR- und FHD-Bildgebungs-technologien - Flexibel Zeitplan-Einrichtung - Extra la...

lang:de **score:23** filesize: 246.19 K page_count: 2 document date: 2022-05-31



[pdf] Datasheet Declaration of Conformity

Kees Luijges Technisches Datenblatt Brinno TLC2020 Zeitrafferkamera Baustelle Wasserdichtes

Gehäuse Set besteht aus ATH1000 ACC1000P bei HORNBACH kaufen 10567959 Doc 02 DE

20220718081756 cdn hornbach de data shop D04 001 780 492 393 959 C BAUPAKETBrinno

kaufenBrinno kaufenas 53465165cdn 20220718081756cdn 20220718081756media lu hb

technicaldatasheet as 53465165 |||

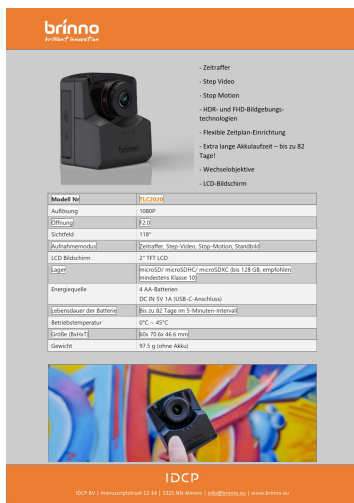
Model NO. Auflösung ffnung Sichtfeld Aufnahmemodus LCD Bildschirm Speichertyp

Energiequelle Lebensdauer der Batterie Betriebstemperatur Gre BxHxT Gewicht

TLC2020-C BAUPAKET - Time Lapse - Step Video - Stop Motion - HDR- und FHD-

Bildgebungs-technologien - Flexibel Zeitplan-Einrichtung - Extra lange...

lang:de **score:22** filesize: 246.46 K page_count: 2 document date: 2022-05-31



[pdf] Declaration of Conformity

Kees Luijges Technisches Datenblatt Brinno TLC2020 HDR Zeitrafferkamera bei HORNBACH kaufen

10456136 Doc 02 DE 20210611171658 cdn hornbach de data shop D04 001 780 492 077 225 |||

Modell Nr Auflösung ffnung Sichtfeld Aufnahmemodus LCD Bildschirm Lager

Energiequelle Lebensdauer der ... eitplan-Einrichtung - Extra lange Akkulaufzeit bis

zu 82 Tage - Wechselobjektive - LCD-Bildschirm **TLC2020** 1080P F2.0 118 Zeitraffer,

Step-Video, Stop-Motion, Standbild 2 TFT LCD microSD/ microSDHC/...

lang:nl **score:22** filesize: 198.4 K page_count: 1 document date: 2021-06-11



[pdf] Sustainability Report

111 CSR brinnosupport assets files investor rules |||

7402 Brinno Incorporated 2022 Sustainability Report :

<https://mops.twse.com.tw/mops/web/t100sb11> ... 617,011 653,914 1 brinno / 16

Brinno Incorporated Sustainability Report 2022 TLC **TLC2020** Portable AA x 4 HDR

AA DIY SHC WiFi MAC Portable 1 DIY 2 O...

lang:i-klngon **score:22** filesize: 2.22 M page_count: 57 document date: 2023-05-29



[pdf]

TLC2020 TLC2000 FW UpgradeProcedure C1 20200807 Gary Brinno microSD

PC Windows zip 29 янв 2021 г — 20210129 brinno support Download

TLC2020 / TLC2000 version C1 microSD *NJDSP4 **TLC2020** / TLC2000 64#

*NJDSP4 f #4 d f4 d d- f NJDSP4 8JOEPXT . 1. f f 3. NJDSP4 1 8JOEPXTf 4. JQj

XXXCSJOOPDPNTVQQPSUTVQQPSUDFOUFS5- 5. JQdf 6. *.d5- ,5- , 3 NJDSP4

*.5- , f 7. NJDSP4 f 8. 64# f dd 9. fd- f dd- ...

lang:i-klinton **score:22** filesize: 287.18 K page_count: 1 document date: 2021-01-29



[pdf] Sustainability Report

2021 brinnosupport assets files investor rules |||

7402 Brinno Incorporated 2021 Sustainability Report :

https://mops.twse.com.tw/mops/web/t100sb11 ... 248,037 550,755 1 brinno / 16

Brinno Incorporated Sustainability Report 2021 TLC **TLC2020** Portable AA x 4 HDR

AA DIY SHC WiFi MAC Portable 1 DIY 2 O...

lang:i-klinton **score:21** filesize: 2.38 M page_count: 58 document date: 2022-06-23



Brinno Incorporated 2024 Sustainability Report | 2024

2024 Brinno

lang:i-klinton **score:21** filesize: 2.03 M page_count: 57 document date: 2025-10-03



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7402 Brinno Incorporated 2023 Sustainability Report :

https://mops.twse.com.tw/mops/web/t100sb11 ... C130 BrinnoASIC 2018

SHC1000TechHive: 2019 BCC2000 SICA Construction Review ODM: Vernier 2020

TLC2020 BrinnoASIC Brinno Team BBT2000 Brinno BARD BAC2000 AFB1000

BCC2000 Discovery ODM...

lang:i-klngon **score:21** filesize: 2.29 M page_count: 61 document date: 2024-05-13



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lang:i-klngon **score:21** filesize: 1.96 M page_count: 57 document date: 2025-07-18



[pdf] User Manual Guide Warranty

TLC2000 series QG UN A2 301 0154 01 20200213 ai Sam web brinnosupport support Download |||

Time Lapse Camera TLC 2000 / TLC 2020 Quick Guide Copyright 2019 Brinno All

Rights Reserved For ... i, visitare CH CN JP KR Camera Parts 1 2 3 4 8 10 5 6

TLC2000 9 11 7 12 13 **TLC2020** 14 1. Power Button 2. Shutter/ Back to Preview

Button 3. LED Status Indicator 4. Memory Ca...

lang:it **score:20** filesize: 1.45 M page_count: 2 document date: 2020-02-13



[pdf] Sustainability Report

Microsoft Word 2023 CSR Report Brinno Incorporated Corporate Sustainability HOYA medical grade

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Stock code 7402 Brinno Incorporated 2023 Corporate Sustainability Report The

website for querying th ... Development of Vernier s third generation smart teaching

device The multi-purpose time-lapse camera **TLC2020** is launched Brinno s own

ASIC chip R D, verification and production Time-lapse photography e...

lang:en **score:19** filesize: 1.46 M page_count: 86 document date: 2024-05-13

Utleieprodukter pr. 03/11/2022

Produsent		Leiepris pr dag inkl mva
Aputure	Light Storm LS 600D Pro	1800,-
Aputure	barn door passer 300 d og 120 d	100,-
Aputure	Firepanel X2	120,-
Atomos	Ninja V (C&S med HDMI-hdmi kabel)	375,-
Avenger	Avenger Lampestativ A4050CS	375,-
Avenger	A4041B	120,-
Benro	Bat 05A - V X20	120,-
Braun	Pro Video kit 185 stativ	210,-
Brinno	TLC2020-Construction bundle	1500,-
Blackmagic	Atem Mini Pro	650,-
Blackmagic	Pocket Cinema Camera 6k	890,-
Blackmagic	Pocket Cinema Camera 6k PRO	960,-
Blackmagic	BV150 150Wh Li-ion batteri	175,-
Blackmagic	Camera Bat V-Lock 95Wh-hvst	150,-
Blackmagic	Camera Bat V-Lock 140 Wh Sort	175,-
Blackmagic	CAT22 stativ	170,-
Blackmagic	BrinnoColor Octa 3	170,-
Blackmagic	speedring brinnoColorfotostang til profoto	20,-
Canon	EOS 50Mark II VHS medCC-L1001	1500,-
Canon	LP-E6Liader	350,-
Canon	Batteri LP-E6	20,-
Canon	EF 16-35mm f/2.8L II USM	700,-
Canon	EF 24-70mm f/2.8 L II USM	580,-
Canon	EF 50mm f/1.2L USM	410,-
Canon	EF 85mm f/1.2L II USM	620,-
Canon	EF 24-105mm f/4L IS II USM	220,-
Canon	EF 70-200mm f/2.8L IS II USM	660,-
Canon	EOS R5 Kamerahus	1800,-
Canon	EOS R5 Kamerahus	1500,-
Canon	RF 15-35 mm f/2.8	800,-
Canon	RF 24-70mm f/2.8 L (serien : 1200001064)	800,-
Canon	RF 28-70mm f/2.8 (serien : 1200001064)	1100,-
Canon	RF 24-105 mm f/4	340,-
Canon	RF 70-200 mm f/2.8	800,-
Canon	RF 50 mm f/1.2	800,-
Canon	RF 85 mm f/1.2	800,-
Canon	RF 100 mm f/2.8 macro	950,-
Canon	EF 8 MP Adapter med control ring	120,-
Canon	EF 8 MP Adapter	100,-

FOTO.NO

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Utleieprodukter pr 03 11 2022 Produsent Leiepris dag inkl mva Aputure Light Storm LS 600D Pro 1 800 barn door passer 300 d og 120 100 utleie 03112022 foto no userfiles file |||

Utleieprodukter pr. 03.11.2022 Produsent Aputure Aputure Aputure Atomos Avenger Avenger Benro Braun ... BS, med HDMI-hdmi kabel Avenger Lampestativ A4050CS A4041B Bat 05A VX20 Pro Video kit 185 stativ **TLC2020**-Construction bundle Atem Mini Pro Pocket Cinema Camera 6k Pocket Cinema Camera 6k PRO BV150 ... lang:id score:16 filesize: 73.58 K page_count: 5 document date: 2022-11-03

Camera SD Card Compatibility

Please upgrade the firmware to the latest version.

	Model	Capacity	ASD-MC	Model	Capacity	ASD-MC
1	FUJIFILM	SDHC				
2	ASUS	SDHC				
3	ASUS	SDHC				
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Last updated 17 May 2020

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