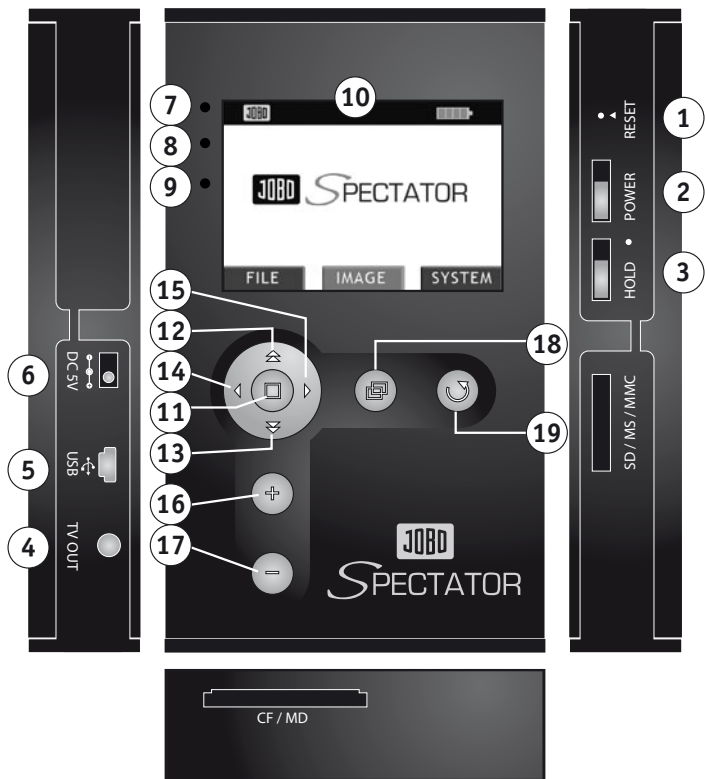


JOBO

FOR YOUR BEST IMAGE



Owner's Manual



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General remarks

1. Liability

The manufacturer only guarantees suitability for the original purpose of this product. Furthermore the manufacturer cannot be held responsible for the damage of data. This also includes the loss of data as well as any consequential damage resulting from the use of this product. The manufacturer reserves the right to further develop the product continuously. Any such changes can be made without being directly described in this manual. Thus, information contained in this manual must not necessarily reflect the state of technical execution. For information on updates please go to our Internet page under www.job0.com.

2. Safety instructions

- Work on the product must only be carried out by appropriately qualified staff of JOB0 AG.
- Please, read this manual carefully and observe the appropriate instructions when installing the device.
- Do not open the product or try to make changes to it. Never insert metallic objects into the product as this may cause an electric shock, fire, a short circuit or hazardous emissions. The components cannot be serviced by the user. If the device does not function properly it must be examined by a qualified staff member of the JOB0 Technical Service. In this context please observe the warranty conditions listed in Chapter 4.
- Never expose the device to rain and keep it away from water and moisture. Never place liquid-filled containers on the device as its contents might penetrate into the opening of the drive as a result of which the danger of an electric shock, a short circuit, a fire or an injury would be increased.

3. Instructions for use

- Never expose the device to temperatures outside the range of between 5° C and 40° C (41 F and 104 F). This could result in damage to the drive or other electronic components. Do not place the device in the proximity of heat sources and do not expose it to direct sun light (also not through a window). Excessively cold or damp environments may also cause damage to the drive.
- Always pull the mains cable from the socket when there is the danger of lightning or when the drive is not being used for an extended period of time

because otherwise the danger of electrical shocks, of fire or of short circuits will increase.

- Do not place the drive next to other electrical devices like television sets, radios or loudspeakers as this may impair the functioning of these other devices.
- Do not place the drive next to sources of magnetic interferences like computer screens, television sets or loudspeakers. Magnetic interferences may impair the operation and the stability of the drive. Do not place any heavy objects on the drive and do not exert any excessive force or pressure on the device.
- During use or storage keep the device as free of dust as possible. Dust may accumulate on the inside of the device and thus increase the danger of damage or dysfunction.
- Never clean the surface of the device with solvents, paint thinners, cleaning agents or any other chemical products. Instead clean the device by wiping it down with a soft, dry cloth.
- In security checks at airports, customs stations etc. the device should be treated like a laptop and not be put through X-ray machines or other control systems.
- Do not switch on SPECTATOR above an altitude of 3,000 m above sea level. The hard disk could be damaged by this and as a result data could be lost.

Attention!

If the above instructions for use are not observed the warranty for this device may lapse.

4. Waste disposal of batteries

Batteries do not belong into household waste. As a consumer you are legally obliged to return spent batteries to the point of purchase. Under no circumstances must batteries be disposed of in an open fire, in a trash can, in a recycling container unsuitable for batteries or in any other way that might constitute an environmental hazard.

1. First use

1.1. Introduction

Many thanks for choosing the JOB0 SPECTATOR. The SPECTATOR is the perfect solution if you want more than just storing your data! With the new SPECTATOR you can already view your pictures in superb quality while you are still traveling, no matter where you are – and you can do so without a PC!

On the large 2.5" high brilliance TFT color LCD you can look at your most beautiful photos in breathtaking quality and you can even zoom in and out. The high resolution display with 16 million colors makes it possible to view images accurately no matter where you happen to be. The SPECTATOR supports all the conventional memory cards and also boasts a USB port as well as a TV OUT connection. The small memory miracle which is available with a 40, 80 or 120 GB hard disk starts the data transfer with an automatic „Verify“ process so that you can be certain that the transfer of your valuable pictures to the device has been successfully completed. The integrated Li-Ion battery makes the SPECTATOR your ideal companion with which you can store, view and show your photos wherever you are.

For more information on all JOB0 premium class storage products please go to www.job0.com

1.2. Safety instructions

The hard disk of the SPECTATOR is factory-formatted.

In order to prevent short circuits and electrical discharges you must avoid exposing this product under all circumstances to water, rain or moisture. Please, also observe the warranty provisions in Chapter 4.

In security checks at airports, customs stations etc. the device should be treated like a laptop and not made to go through an X-ray machine or other control systems.

Do not switch on SPECTATOR above an altitude of 3,000 m above sea level. The hard disk could be damaged by this and as a result data could be lost.

1.3. Scope of delivery

The package contains the following parts:

- JOBO SPECTATOR
- integrated battery
- integrated hard disk
- mains adapter
- driver CD including software
- USB cable
- video cable
- manual

1.4. Charging the battery

The device has an integrated Li-Ion battery with 2000 mAh. Please, charge the battery once completely for 12 hours before the first use by way of the mains adapter supplied with SPECTATOR. Only use the original mains adapter that comes with the device for charging. The internal battery will then be charged via the mains adapter. If the SPECTATOR is connected to a computer the charging is effected via the USB cable as long as the computer is switched on. Since the battery is a Li-Ion battery the so-called memory effect is eliminated, which means you can recharge the battery to be on the safe side when it is still half full. The charging level of the battery is indicated by the battery symbol in the display.

The battery must not be exchanged by anyone other than the manufacturer.

1.5. Switching on / off

1.5.1. Switching on SPECTATOR

On the right-hand side there is the „ON / OFF“ sliding switch by which to switch on SPECTATOR. In order to avoid switching on the device by mistake the switch needs to be held in the “ON” position for 2 seconds to activate the device. Make sure that the battery is sufficiently charged.

1.5.2. Switching off SPECTATOR









In order to switch off the device you again operate the “ON / OFF” sliding switch on the right-hand side for about 2 seconds. The display will confirm that the device has been switched off.

The device has an energy saving function that you can activate in the systems menu or by way of a timing function. With this function the display is switched off after a pre-selected time. This measure relieves the internal battery and thus saves energy. In order to use the device again press the “ON/OFF” sliding switch.

2. How SPECTATOR functions

2.1. Product Function Diagram

In order to familiarize you with SPECTATOR all keys and their functions are explained in the following diagram:

1. RESET : Restart the machine
2. Power : Pull 3 seconds to turn on or turn off
3. Hold : Lock the current status (except On/Off button)
4. TV Out : Connect to TV
5.  : USB port
6. DC-5V : Input 5V
7. LED Power : Light on or off for power on or off
8. LED Battery Charging : Light on while charging battery
9. LED Battery Full : Light off when battery is full
10. LCD : 2.5TFT LCD Display
11.  : Enter or confirm, view file
12.  : Select Up file, or pan the picture up
13.  : Select Down file, or pan the picture down
14.  : Back to previous menu or file, pan the picture left
15.  : Next menu or file, pan the picture right
16. + : Zoom out
17. - : Zoom in
18.  : View slideshow/image, edit or copy file
19.  : Back to the Start Up Menu, Thumbnail Menu or Exit

Battery Status:


When battery is full, battery status will show full green

When battery is low, battery status will show red meaning you need to recharge the battery in time.

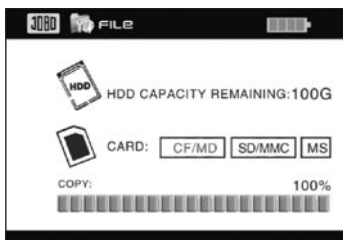
2.2. OPERATION



2.2.1. COPYING FILES to Hard Disk



After power on, the start up screen will give you three modes to choose from. The device is also immediately in standby mode to copy files from memory cards to internal Hard Disk. If you insert a card then press  the file will be copied to Hard Disk automatically. The card type is detected as well.

During the copying process the data is automatically verified. Thus you have the safety to have same data on your memory card and on the hard disk after the copying process is finished.



After the files are copied you are asked if you want to view the copied files or not. Press  if you do not wish to view the files, or press  for "yes" to take a look.

Important:

Under no circumstances should you remove the memory card during the copying process. This may lead to the complete freezing of the SPECTATOR which can only be released by a Reset.

For a copying process involving a large data volume it is recommended to check the battery capacity by observing the battery symbol on the display. If the capacity is low you should first recharge the battery or connect the mains adaptor to the device during copying.

If the device cuts out during copying the battery must be recharged and the copying process repeated.

2.2.2. FILE MODE

The file mode gives you the opportunity to browse through the whole HDD, as well as the inserted memory cards. In this mode you can copy, paste and delete files and folders. This gives you the opportunity to move data from the HDD to the memory card and vice versa as well. In this mode you can see the whole HDD structure with all files, not just image files.

2.2.2.1 Select FILE mode

On the start up screen, you can use the buttons ◀ or ▶ to select one of the three modes; FILE, IMAGE or SYSTEM mode. To confirm press the button. The selected mode is highlighted in red.

2.2.2.2. Functions of buttons in FILE mode

In the FILE mode the buttons have the following functions:

- ▶ a.) down to next folder in folder structure
b.) pan after zoom to right side
- ◀ a.) up to previous folder in folder structure
b.) pan after zoom to left side
- a.) Select a file or folder in folder structure
b.) confirm to display an image
c.) confirm “copy, paste or delete”
d.) zoom back to full screen size, when image is displayed
- ▲ a.) moving up in folder structure
b.) pan after zoom to the top
- ▼ a.) moving down in folders
b.) pan after zoom to the bottom
- ☰ activates the menu “copy paste delete”
- ↶ takes you back to previous menu
- + Zoom in while image is displayed
- Zoom out while image is displayed

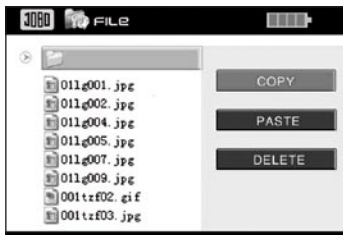
2.2.2.3. COPY – PASTE – DELETE

Being in the FILE menu and pressing the button ☰ activates the menu “copy paste delete” on the right-hand side of the screen. You can either select a whole folder or just one file, with this feature you can move the data everywhere you want – even back to memory card.

First of all you have to choose the location in which you want to activate the menu “copy paste delete”. To do so you either select the Hard Disk or one of the memory slots. To confirm just press the □ button.



The red highlighted button for example “copy” can be confirmed by pressing the button. After doing so the menu disappears, this is also the confirmation that the process has worked.



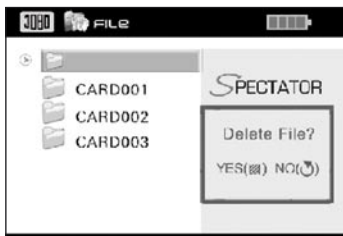
If you choose the “delete” button, there is a security step added. Once you confirmed “delete” with the button an extra window appears asking if you really want to delete the file.



Press:

to finally delete the file or folder

 to go back to previous menu.





2.2.3. IMAGE MODE

The image mode gives you all the possibilities to view your images: You can preview the images, there is a thumbnail view, slideshow mode, zoom function and you can use the “TV out” to present your pictures on TV. In the IMAGE mode all files except images are hidden.

2.2.3.1 Select IMAGE mode



On the start up screen, you can use the buttons  or  to select one of the three modes; FILE, IMAGE or SYSTEM mode. To confirm press the button. The selected mode is highlighted in red.

2.2.3.2 Functions of buttons in IMAGE mode

In the IMAGE mode the buttons have the following functions:

- ▶ a.) next picture
- b.) down to next folder in folder structure
- c.) pan after zoom to right side

- ◀ a.) previous picture
- b.) up to previous folder in folder structure
- c.) pan after zoom to left side

- a.) Select a file or folder in folder structure
- b.) confirm to display an image
- c.) zoom back to full screen size when image is displayed

- ▲ a.) moving up in folder structure
- b.) pan after zoom to the top

- ▼ a.) moving down in folders
- b.) pan after zoom to the bottom

- 🖼 a.) activates "Thumbnail view"
- b.) in "Thumbnail view" it activates the "slideshow" mode

- ↶ a.) takes you back to previous menu
- b.) takes you back from "Slideshow" mode to "Thumbnail view"

- + Zoom in while image is displayed
- Zoom out while image is displayed

2.2.3.3 Preview Image






When in the IMAGE mode select a folder containing images. The images in the folder are displayed as preview pictures on the right-hand side of the screen. In addition the size of the picture is shown underneath the image. If you scroll up


▲ or down ▼ the corresponding picture will be shown.



2.2.3.4 Thumbnail view / Slideshow mode



When you have selected a folder, press  button for thumbnail view. Then 8 pictures are displayed on the screen. You can move through the whole folder by using the buttons: , ,  and .

To start the slideshow press  button again and the slideshow will start automatically. The pictures change automatically as well.




To get back to the "Thumbnail view" just press again  button.

2.2.4. SYSTEM MODE

The SYSTEM mode allows you to adjust the SPECTAOR perfectly to your requirements, such as on screen menu language, brightness and contrast of the display etc.

2.2.4.1 Select SYSTEM mode





On the start up screen you can use the buttons  or  to select one of the three modes; FILE, IMAGE or SYSTEM mode. To confirm press the  button. The selected mode is highlighted in red.

2.2.4.2 Functions of buttons in SYSTEM mode

In the SYSTEM mode the buttons have the following functions:

 and  change options

 and  selecting functions

 takes you back to main menu

2.2.4.3 Settings in the SYSTEM menu



You have the following options to adjust:

1. Language of the on-screen menu
 - a. English
 - b. German
 - c. French
 - d. Spanish
 - e. Dutch
 - f. Swedish
 - g. Italian

2. Brightness
Range from 5 to 55

3. Contrast
Range from 5 to 55

4. TV
You can choose between:
S-PAL
C-Pal
C-NTSC
S-NTSC

5. LCD Off

This is a power saving function you, can choose to turn off the display after 5sec, 15sec, 30sec or never.

6. Update

You can update the firmware if there is a new release with new functions.

Warnings: If you wish to update the firmware to a new version, please download a correct updated firmware from JOB0 first and store it on a memory card; insert the memory card in the slot, and press button to update the system. At the same time, the screen will turn black but it still works (LED power light on). Please DO NOT shut off power or pull out the memory card!

When finished, the power indicator light will turn off. Restart the machine. A new version has been updated.

2.2.5. SPECTATOR as external HDD or USB card reader



Connect the SPECTATOR to your computer with the USB cable. Then you can select that the device will be identified as an HDD or CARD READER. Press button to confirm your choice.

After confirming your choice the device will power off automatically and the screen will turn black

Your computer will now automatically recognize the connected device. The hard disk of the SPECTATOR will now be available to you as a new letter code drive. You can new copy, move or delete all types of files in the Windows Explorer by `Drag and Drop`.

2.2.6. Connect SPECTATOR to TV

In order to use the SPECTAOR with a TV you have to connect the yellow plug of the video cable on one side to the TV OUT on the SPECTATOR, and another side to TV related ports (red/white/yellow).The screen is now shown on the TV as well.

Make sure that you have selected the right TV format in the system mode (NTSC, PAL).

3. Connect to the PC

3.1. Minimum systems requirements

- Microsoft Windows TM 98/ Me/ 2000/ XP, MacOS 10.2 or higher, Linux 2.4.x or higher
- CD-ROM drive
- Pentium2, 400 MHz
- RAM 32MB (Windows ME, 2000) – 64MB (Windows XP)
- 20MB hard disk memory
- USB interface

3.2. Driver Windows 98/ME/XP/VISTA, Linux 2.4.x, MacOS 10.2.x

For these operating systems no drivers are required. Please, make sure that you have installed the most recent Service Packs of the operating systems in question.

3.3. Log off SPECTATOR under Windows

Windows 2000/ME/XP users click on the ‚Remove or eject hardware‘ symbol in the bottom right-hand corner of the systems tray (next to the clock). Now select ‚USB mass memory‘ and click on the ‚End‘ button.

Windows 98 users must use the ‚Device Manager‘ to log off SPECTATOR. Find the SPECTATOR in the ‚Device Manager‘ and click on the name with the right-hand mouse key. After having selected ‚Remove‘ you can disconnect SPECTATOR from your PC.

3.4. SPECTATOR format for hard disks

The hard disk of SPECTATOR is factory-formatted.

SPECTATOR is a hard-disk based product. In the event of malfunctions the internal hard disk can be reformatted.

It is imperative that this is done in the FAT32 format.

For Windows XP you need the program „Swissknife“ or „FAT32API.exe“ in order to do the formatting. You will find the „FAT32API.exe“ program under www.job0.com (SPECTATOR formatting program) and „Swissknife“ on the enclosed driver CD.

For the formatting on MAC you do not need any additional program. The hard disk must be formatted in the MS-Dos mode.

3.4.1 Installing Swissknife

Install the „Swissknife“ program on a computer with a Windows operating system (WIN 2000, ME, XP). The installation is either automatic or after inserting the CD you can activate the program with > Start / Execute / Jobo / Swissknife / and a double click on „Swissknife.exe“. All the installation queries can be confirmed. The computer may have to be re-started after the installation.

3.4.2 Prepare formatting

1. To be on the safe side unplug all connections to external hard disk drives.
2. Connect the SPECTATOR via the USB cable to the computer and switch it on (ON).
3. Open the „Swissknife“ program.

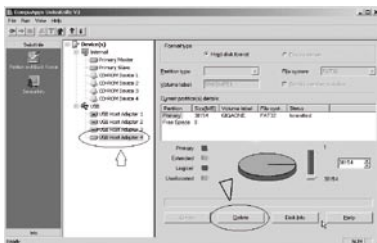
3.4.3 Formatting

The formatting is done in two steps:

1. Delete data
2. Format hard disk (Create)

IMPORTANT: Make sure that during all activities involving the formatting program that the USB area (Devices) for the SPECTATOR has been selected. You should under all circumstances avoid going to „Internal“ or „Primary“!

Click on „Delete“



The following queries can all be answered in the affirmative > Yes.



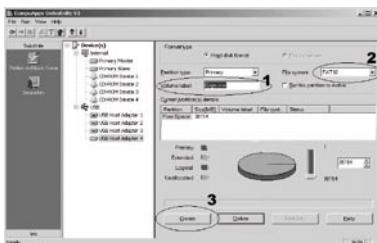
All data on the hard disk is now deleted and you can proceed to re-format.

Important settings for the re-formatting process:

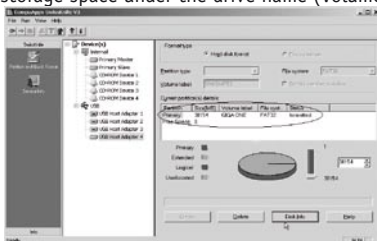
The File System must be adjusted to FAT 32 > 2

Under Volume label enter the name SPECTATOR and this drive description will then also appear in the connection with the computer in the drive structure > 1

Click on Create > 3



This completes the re-formatting of the SPECTATOR. Under Partition the system will show the available storage space under the drive name (Volume label) SPECTATOR.



The capacity indication in the SPECTATOR will return to the maximum storage capacity as a result of the re-formatting of the hard disk. .

3.6 Connect to PC

If there are any problems in the USB connection to the PC or MAC these can be removed by connecting a USB HUB between the SPECTATOR and the computer.

4. Warranty and Service

4.1. Warranty conditions

This product is subject to the legal warranty periods relating to manufacturing faults and defects.

Substance of the warranty:

1. In the event of malfunctioning caused by manufacturing defects JOB0 AG will repair or replace the defective product at its own discretion.
2. JOB0 AG and its suppliers do not assume any liability for data losses occurring during operation of the device or consequential damage resulting from this. Under no circumstances will JOB0 AG assume liability for any direct, concrete or special damage or consequential damage like for example damage to or loss of property or devices, loss of profits or sales, costs for spare parts, expenditure or inconvenience caused by the interruption of service or any other damage. The user will be exclusively responsible for the loss, damage or destruction of data during the operation of a JOB0 product. Under no circumstances will JOB0 AG be liable for the recreation of such data. Under no circumstances can claims be lodged that exceed the purchase price of the product.
3. The following repairs are not covered by the warranty and must be paid for separately:
 - Malfunctions after the end of the legal warranty periods
 - Change of battery after the end of the warranty period
 - Change of hard disk after the end of the warranty period
 - Malfunctions due to incorrect operation by the user (if device is not used as described in the manual)
 - Malfunctions caused by other devices
 - Changes or damage to the device not caused by the manufacturer; especially, warranty claims will lapse if the device has been opened by anyone other than by a JOB0 AG repair workshop
 - Damage caused by natural disasters (acts of God)
 - A hard disk change during the warranty period must only be performed by JOB0. Such a change by any other party will entail the loss of all warranty claims.

If you want to make any claims under the warranty you are asked to contact the Technical Service of JOB0 AG. You will be expected to quote the serial number of the JOB0 product and may also have to submit proof of purchase to show that the warranty period has not yet elapsed.

4.2. Contact/Service

If you have any questions on or need help with our products please do not hesitate to get in touch with our Technical Service. You can reach our service people by phone under the telephone number indicated below from Monday through Thursday from 9:00 am to 4:00 pm and on Friday from 9:00 am to 1:00 pm. Independently of these service times you can also get in touch by e-mail, fax or mail:

JOB0 AG
Kölner Straße 58
D-51645 Gummersbach
Tel. 0049 2261 545-72
Fax: 0049 2261 545-42
E-mail: support@jobo.com
www.jobo.com

4.3. STATEMENT & CAUTIONS

In order to maintain excellent service the contents of the manual may be subject to change.

Yet, product changes in terms of performance and function will no longer be announced.

If you find that the methods of use and the settings are not the same as in the manual please visit our website to check the latest product information.

- Do not use the product under adverse conditions like excessive heat, cold, dust, humidity, etc.
- Keep it out of the reach of children, avoid it being struck or dropped
- Please do not change the battery by yourself! CAUTION: The battery may explode and hurt people
- When you use the product do not allow it to fall or collide with other object otherwise the cover, battery or other parts may be damaged.
- Try not to avoid use under too dry condition. Try to block out static.
- Do not shut off power suddenly while you are uploading/downloading, otherwise it will result in driver errors

- When you use the hard disk please make sure to operate the file correctly. If you lose any file because of wrong operation we will not assume any responsibility.
- Regarding your personal data stored in the machine we suggest that you copy it to your PC in time
- Hard disk partition should be at most 3, because you may not see the files stored outside the third partition in the machine; yet when connected to the PC the files will display in the PC

4.4. Technical specifications

Basic Data

Dimensions	23.7 x 78 x 129 mm
Card support	CFI/CFII, SD, MMC, MS, MD
Format	FAT32
Power	Built-in: 3.7 V Li-on battery (2000mAh) / 100V ~ 240V power adapter
Temperature	Store temperature: -40° ~ 60° / Operating temperature: 0° ~ 60°
Display	2.5" TFT LCD
USB	USB2.0 HS Supports USB charge
Display Type	Transmissible
Active Area (HxW)	50.91 x 38.16 mm
Number of Dots (HxW)	214 x 240 (640 RGB x 240) Dots
Dot Pitch (HxW)	0.053 x 0.159 mm
Color Arrangement	RGB Delta
Color Numbers	16 million
Outline Dimensions (H x W x D)	61.7 x 44.5 x 2.68 (approx.) mm
Weight	183 G
Panel surface treatment	Hard Coating (3H)
Transfer speed	Card to HD: 0.9MB/s to 1.5MB/s



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