



Monitor

4.5" receiver monitor for the Artlynk digital system
BETAFPV



Read this manual carefully before first use and keep it for future reference.

User manual · EN

Contents

1. Safety instructions

2. Product description

2.1 Specification

2.2 Ports and controls

3. Power supply

4. Home screen

5. Connecting the air unit and channels

5.1 Binding

5.2 Channels and frequencies

5.3 Operation in the Czech Republic and abroad

6. Recording and playback

7. Settings menu

7.1 Display

7.2 Record Set

7.3 Device

7.4 Camera

7.5 System and firmware update

7.6 Playback

8. Information for the EU and Czech market

8.1 Importer and responsible person in the EU

8.2 Product conformity

8.3 Disposal of electrical equipment

9. Warranty and rights arising from defective performance

1. Safety instructions

The Monitor is a ground receiver for viewing the video feed from a model fitted with an air unit of the Artlynk digital system. It is not a toy and does not belong in the hands of children. Read this manual in full before first use and keep it.

- Power the device only within the voltage range given in chapter 3. A supply outside this range will destroy the device.
- Check the polarity and the condition of the connector before connecting a battery. Do not use a damaged connector or cable.
- Operate the device in dry conditions. Do not expose it to rain, fog, splashing water or high humidity.
- Do not leave the device in the sun in a closed vehicle or near a heat source.
- Do not cover the vents or the back of the device.
- Do not disassemble or modify the device; there are no user-serviceable parts.
- Stop using the device if the case, the display or a connector is damaged.
- Keep the model in direct sight while flying; the Monitor does not replace it.

► Handling Li-Po batteries

- Charge the battery only with a suitable charger, on a non-flammable surface and under supervision.
- Never use or charge a swollen, damaged or deeply discharged battery.
- Do not short-circuit the battery. Never connect the XT30 or DC connector with reversed polarity.
- Do not store the battery fully charged or empty; bring it to storage voltage.

Configuration	Fully charged	Stop operation	Storage
2S Li-Po	8.4 V	7.0 V	7.6 V
3S Li-Po	12.6 V	10.5 V	11.4 V
4S Li-Po	16.8 V	14.0 V	15.2 V
6S Li-Po	25.2 V	21.0 V	22.8 V

The values correspond to **4.20 V** (fully charged), **3.5 V** (stop operation) and **3.8 V** (storage) per cell. For LiHV batteries, full charge is 4.35 V per cell.

► Care of the device

- Clean the display and case with a soft dry cloth; paper and rough cloths scratch.
- Store the device away from keys, tools, sand and other hard objects.
- Do not press on the display, drop the device or scratch it with sharp objects.

Stop using the device as soon as possible after the low battery alarm. Otherwise the device may shut down or the battery may be damaged.

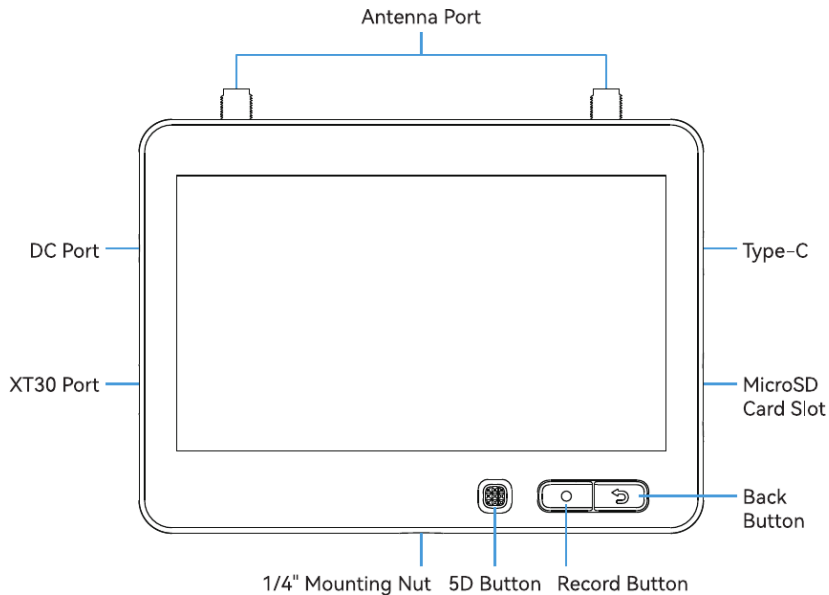
2. Product description

The Monitor HD Display is a high-definition wireless image transmission monitor developed by BETAFPV. Designed for the Artlynk Digital System, it delivers long-range, low-latency HD video while maintaining BETAFPV's signature minimalist design and intuitive operation, offering a superior experience for FPV enthusiasts.

2.1 Specification

Product name	Monitor
Dimensions	116 × 84.9 × 21.2 mm (excluding antenna)
Weight	143 g (excluding antennas)
Screen size	4.5"
Resolution	1920 × 1080 @ 60 Hz
Screen brightness	1000 nit
Screen material	LCD
SD card slot	Micro SD, up to 1 TB
Frequency	5.3-5.8 GHz
Radiated power (e.i.r.p.)	FCC: < 23 dBm; CE: < 14 dBm
Ports	USB-C; Micro SD card slot; DC 5.5 × 2.1 mm; XT30
Antenna port	RP-SMA Female (external thread, inner pin)
Transmission resolution	1080p @ 60 fps
Bitrate	Up to 25 Mbps
Transmission range	> 400 m
Input voltage	5.5-26.4 V

2.2 Ports and controls



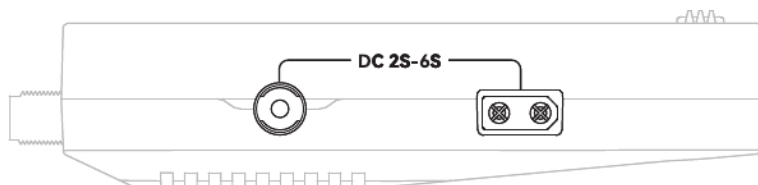
Layout of ports and controls

- **DC Port and XT30 Port** – power supply, voltage range 5.5–26.4 V.
- **Record Button** – press to start or stop DVR recording.
- **Back Button** – press to return to the previous menu.
- **5D Button** – press to enter the main menu; toggle up, down, left and right for navigation; press to confirm the selection.
- **Type-C** – connect to a computer to manage files on the Micro SD card.
- **MicroSD Card Slot** – Micro SD card with a capacity of up to 1 TB.
- **Antenna Port** – RP-SMA Female antenna connector.
- **1/4" Mounting Nut** – thread for tripod mounting.

Use U3/V30 or higher SDXC cards to avoid video loss or recording errors.

3. Power supply

The Monitor is powered by an external battery through the DC 5.5 mm or XT30 port. It supports **2-6S Li-Po** batteries and a voltage range of **5.5-26.4 V**.



DC 5.5 mm and XT30 power ports for 2-6S batteries

► Low voltage alarm

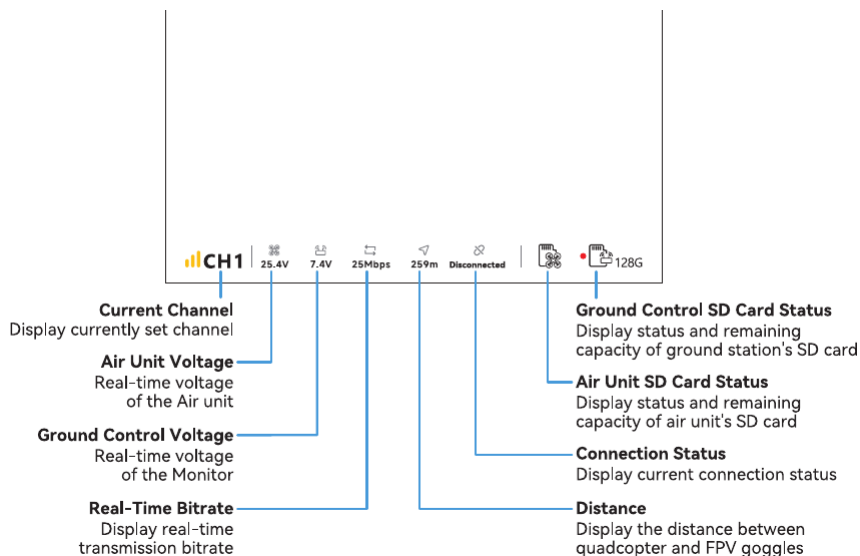
The built-in buzzer will emit an intermittent warning if:

- with a **2S** battery the voltage drops below 5.5 V,
- with a **3S, 4S or 6S** battery any individual cell drops below 3.5 V.

When powering the Monitor from a 2S battery, watch the voltage particularly closely. The 5.5 V threshold equals 2.75 V per cell, far below the recommended limit of 3.5 V per cell. Disconnect and charge the battery before the alarm sounds, otherwise you will damage it permanently.

4. Home screen

After powering on and completing startup, the default interface is the home screen. The bottom of the screen displays the key operating parameters and status icons.



Information on the home screen

- **Current Channel** – the currently set channel.
- **Air Unit Voltage** – real-time voltage of the air unit on the model.
- **Ground Control Voltage** – real-time voltage of the Monitor.
- **Real-Time Bitrate** – real-time transmission bitrate.
- **Distance** – the distance between the model and the ground station.
- **Connection Status** – current connection status.
- **Air Unit SD Card Status** – status and remaining capacity of the air unit's SD card.
- **Ground Control SD Card Status** – status and remaining capacity of the Monitor's SD card.

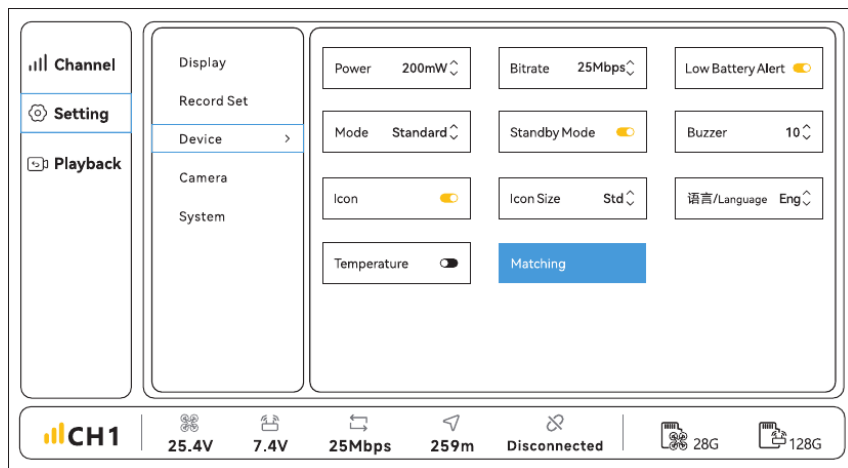
The SD card icon shows the following states: **grey** – no card inserted, **solid white** – card detected, **flashing red dot** – recording in progress, **no red dot** – standby, **Full** – storage full.

5. Connecting the air unit and channels

5.1 Binding

Preparation: turn on the air unit and the Monitor, keep them within two metres of each other and make sure both devices run the latest firmware.

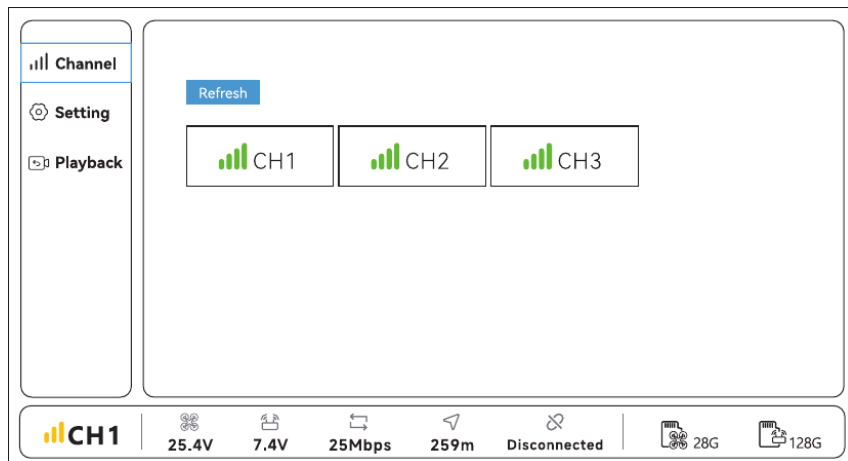
- ① In the Monitor menu select the binding item (*Setting* → *Device* → *Matching*) and press the Bind button on the air unit. During binding the air unit LED flashes green quickly and the Monitor beeps.
- ② Once linked, the air unit LED turns solid green, the Monitor emits a long beep and displays the video feed.



The binding item in the Setting → Device menu

5.2 Channels and frequencies

In normal mode 3 channels are available, in racing mode 16 channels. After entering the *Channel* interface, select *Refresh* to refresh the signal strength of all frequency bands.



The Channel interface

► Normal mode

Channel	Frequency - centre (occupied range)
Channel 1	5758 MHz (5753–5763 MHz)
Channel 2	5788 MHz (5783–5793 MHz)
Channel 3	5828 MHz (5823–5833 MHz)

► Racing mode

Channel I	MHz - centre (range)	Channel	MHz - centre (range)
1	5658 (5653-5663)	9	5620 (5615-5625)
2	5695 (5690-5700)	10	5580 (5615-5625)
3	5732 (5727-5737)	11	5540 (5535-5545)
4	5769 (5764-5774)	12	5500 (5495-5505)
5	5806 (5801-5811)	13	5460 (5455-5465)
6	5843 (5838-5848)	14	5420 (5415-5425)
7	5880 (5875-5885)	15	5380 (5375-5385)
8	5917 (5912-5922)	16	5340 (5335-5345)

✱ **For channel 10 the manufacturer's original manual states a centre frequency of 5580 MHz with a range of 5615-5625 MHz. The two values do not match and the range is identical to channel 9. The figures are reproduced here as stated by the manufacturer.**

Racing mode differs from normal mode mainly in the number of frequencies available. In an environment with dense Wi-Fi traffic in the 5.8 GHz band the transmission may be shorter and more prone to interference; switching to racing mode allows a less congested channel to be selected.

5.3 Operation in the Czech Republic and abroad

The Monitor is radio equipment. The following information is given in accordance with Article 10(8) of Directive 2014/53/EU (RED), implemented in the Czech Republic by Government Regulation No. 426/2016 Coll.

Band	Max. e.i.r.p.	Conditions of use
5725-5875 MHz	25 mW	Non-specific short range devices under general authorisation No. VO-R/10 of the Czech Telecommunication Office, without individual authorisation.

For the European market the manufacturer states a radiated power of up to 14 dBm, which corresponds to approximately 25 mW e.i.r.p.

In the Czech Republic only channels whose entire occupied range lies within 5725-5875 MHz may be used: Channel 1 to 3 in normal mode and Channel 3 to 6 in racing mode. The remaining racing mode channels lie outside the band allocated to this equipment and must not be used in the Czech Republic.

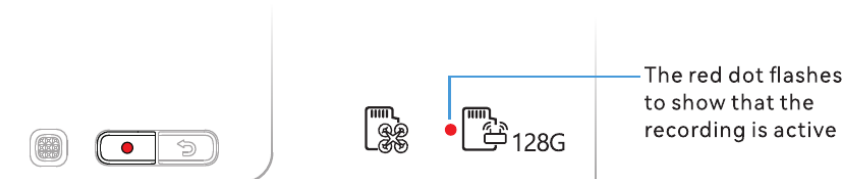
The manufacturer's note recommends switching to Channel 16 (5335-5345 MHz) in case of Wi-Fi interference. This channel cannot be used in the Czech Republic.

Permitted frequency bands and maximum transmitting power differ from country to country. The information in this chapter describes the situation in the Czech Republic. If you operate the product in another country, **you must comply with the regulations of the state in which you use it.** The user is responsible for the choice of channel and for the transmitting power setting.

6. Recording and playback

► Recording

The Monitor supports Micro SD card storage. Once a card is inserted, the SD card icon changes from grey to white, indicating that the SD card is read successfully. After connecting to the model, press the Record button; a flashing red dot will appear, indicating that the recording has started. After the flight, you must press the Record button again to stop and save the footage, otherwise the recording may fail.



The flashing red dot indicates that recording is in progress

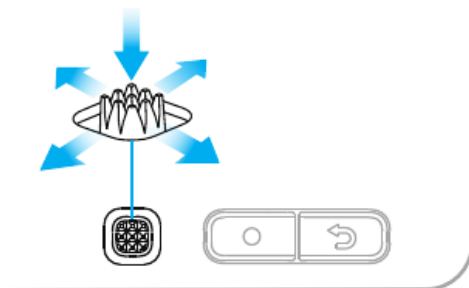
► Playback

Enter the *Playback* interface. When the selection box is on the video list, short press the 5D button to view the recorded video, long press to delete the video file. During playback, press the 5D button to pause and play, and toggle left and right to rewind and fast forward the video.

When using a Micro SD card in this device for the first time, format the card - this ensures more stable writing. Formatting will permanently and irreversibly delete all data on the card.

7. Settings menu

Press the 5D button to enter the settings menu, in which the parameters of the Monitor can be viewed and changed.



The 5D button and the Back button

On the home screen, short press the 5D button to open the menu. Toggle up, down, left and right to move between the items; press the Back button to return to the previous level.

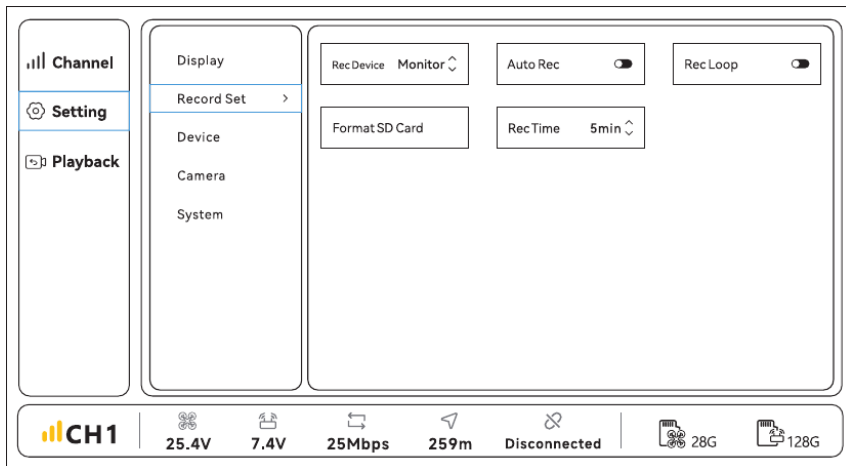
7.1 Display



The Display interface

On the *Display* interface you can configure the screen brightness, focus mode, OSD position and viewfinder.

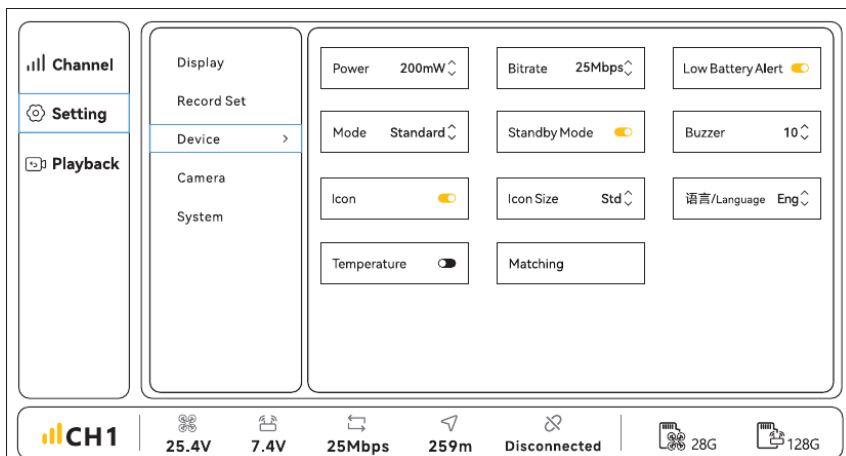
7.2 Record Set



The Record Set interface

On the *Record Set* interface you can configure recording and SD card settings.

7.3 Device



The Device interface

On the *Device* interface you can configure the operating parameters of the Monitor.

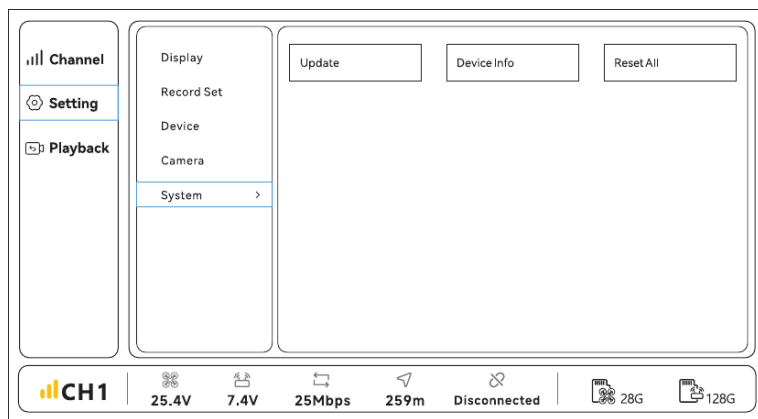
7.4 Camera

Select *Camera* to enter the camera parameters menu. On this interface you can navigate to view and configure additional image settings.

EV	Auto	Saturation	-2	Sharpness	1	WB	Auto
Rotate	0°	Ratio	16:9	3D DNR	Off	Zoom	100%

Camera parameters

7.5 System and firmware update



The screenshot shows the 'System' interface. On the left is a sidebar with 'Channel', 'Setting' (selected), and 'Playback'. The main area has a menu on the left with 'Display', 'Record Set', 'Device', 'Camera', and 'System' (selected). To the right of the menu are three buttons: 'Update', 'Device Info', and 'Reset All'. At the bottom is a status bar with icons and text: 'CH1', '25.4V', '7.4V', '25Mbps', '259m', 'Disconnected', '28G', and '128G'.

The System interface

Here you can view device information, update the system or restore factory settings.

► Firmware update

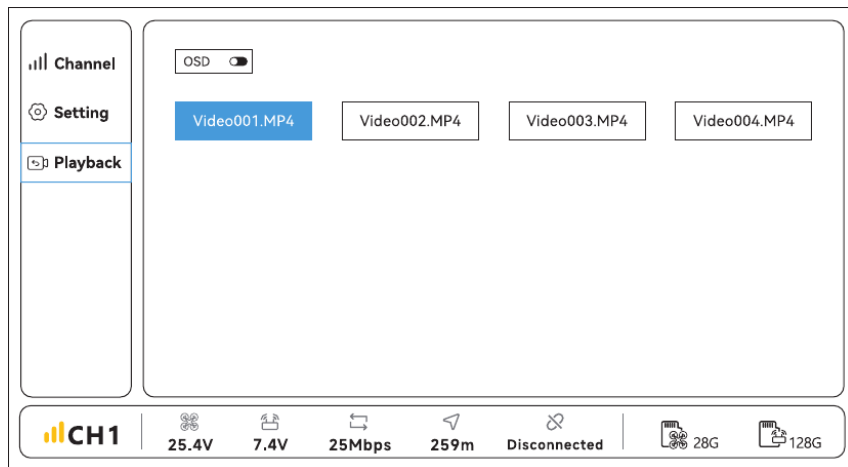
- ① Copy the firmware files of both devices to an SD card and insert it into the ground station.
- ② Power on the air unit and the ground station and make sure they are connected.
- ③ Select *Setting* → *System* → *Update* → *Start*. Both devices are upgraded at the same time.
- ④ After the upgrade is successful, restart the air unit and the ground station.

Release notes for the individual firmware versions are published by the manufacturer at support.betafpv.com.

- Follow the steps as described, otherwise the upgrade may fail.
- The upgrade takes some time – wait until it is complete.
- Make sure the device is sufficiently powered before the upgrade.
- Do not turn off the power during the upgrade.

- After the upgrade the settings are reset to default values; set them again afterwards.
- To upgrade only one of the devices, copy only its firmware file to the card.

7.6 Playback



The Playback interface

On the *Playback* interface you can review the recorded videos. The *OSD* switch shows or hides the air unit's data in the played video.

8. Information for the EU and Czech Market

8.1 Importer and responsible person in the EU

The product is placed on the European Union market by the importer stated below, who is at the same time the responsible person within the meaning of Article 16 of Regulation (EU) 2023/988 of the European Parliament and of the Council on general product safety (GPSR).

Importer / responsible person in the EU	Rotorama, s.r.o.
Company ID (IČO)	051 57 692
VAT ID (DIČ)	CZ05157692
Registered office	Okrajová 1351, 674 01 Třebíč, Czech Republic
E-mail	info@rotorاما.cz
Phone	+420 252 252 098
Website	www.rotorاما.cz

8.2 Product conformity



- The product bears the **CE** marking and complies with the requirements of the applicable European Union harmonisation legislation.
- A copy of the **EU Declaration of Conformity** is available from the importer at the address stated above or at the e-mail address info@rotorاما.cz.
- **Product identification:** the type designation (Monitor) and the serial number are given on the rating label on the device; the firmware version number can be found in *Setting* → *System* → *Device Info*.

8.3 Disposal of electrical equipment



- The crossed-out wheeled bin symbol on the product, its packaging or in the documentation means that at the end of its service life the product **must not be disposed of together with mixed municipal waste**.
- Hand it over at a take-back point for electrical equipment – at a collection yard, at a take-back point of a collective system, or at the retailer when purchasing a new equivalent product. Take-back is free of charge for the end user.
- The obligations under Act No. 542/2020 Coll., on end-of-life products, are fulfilled by the importer through a collective take-back system.
- Proper disposal helps prevent negative impacts on the environment and human health and contributes to the reuse of secondary raw materials.

Through its contractual partner **ASEKOL a.s.**, the company ensures the take-back of waste electrical equipment from households and the separate collection of waste electrical equipment, batteries and accumulators in accordance with the applicable legislation. The customer is entitled to hand over old electrical equipment or a battery or accumulator at any collection point of the above contractual partner. The addresses of these take-back points are listed at www.asekol.cz, www.ecobat.cz and also <https://visoh2.mzp.cz/RegistrMistZO/RegistrMistZOPublic/MapaMistZpetOdberu>.

9. Warranty and rights arising from defective performance

The rights and obligations of the contracting parties are governed by Czech law, in particular by Act No. 89/2012 Coll., the Civil Code, and Act No. 634/1992 Coll., on consumer protection.

- The seller is liable to the buyer for the product being free of defects on receipt. If the buyer is a consumer, a defect may be notified **within two years of receipt** of the product (Section 2165 of the Civil Code).
- If a defect appears within **one year** of receipt, the product is deemed to have been defective already at the time of receipt (Section 2161(5) of the Civil Code).
- When purchasing online, a consumer has the right to **withdraw from the contract within 14 days** of receiving the goods without giving a reason (Section 1829 of the Civil Code).
- Claims should be made with the retailer from whom you purchased the product. The importer's contact details are given in Chapter 8.1.
- The competent body for out-of-court settlement of consumer disputes is the **Czech Trade Inspection Authority**, Štěpánská 796/44, 110 00 Prague 1, www.coi.cz.