



Moblite7 Walksnail V3

Happymodel · 75 mm FPV drone (Tiny Whoop) · 1S
Walksnail Avatar digital video · ExpressLRS 2.4 GHz
receiver



Read the entire manual carefully before first use, in particular the safety instructions and Chapter 3 on the legal conditions of operation. Keep this manual.

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1. Safety instructions

1.1 Before you start

The Moblite7 Walksnail V3 is a ready-built FPV drone of the Tiny Whoop class with a 75 mm wheelbase, Walksnail Avatar digital video transmission and a built-in ExpressLRS receiver. It is not a toy and is not intended for children. Improper use may cause injury to persons or damage to property.

- Before your first flight, read the entire manual and familiarise yourself with the regulations of the country where you will fly (Chapter 3).
- The drone is supplied as a BNF version – to operate it you need your own radio transmitter with the ExpressLRS 2.4 GHz protocol, Walksnail Avatar goggles, a battery and a charger (Chapter 4.1).
- Do not fly under the influence of alcohol, drugs or medication that reduces attention, or when tired.
- If you are not confident with the controls, practise on a simulator first and make your first flights in an open area without people.
- Do not modify the product beyond the procedures described in this manual. Any intervention in the electronics (soldering, re-bridging pads) is at your own risk.

1.2 Rotating propellers and mechanical hazards

- The protective duct reduces the risk of injury but does not eliminate it. Rotating propellers can injure fingers, eyes and the face.
- Always handle the drone in the **Disarm** state (motors off). Disconnect the battery before any work on the propellers.
- Never hold the drone in your hand with the motors running and do not fly close to faces, hair, loose clothing or animals.
- Assign the Arm switch on your radio so that you can stop the motors immediately at any time (Chapter 5.7).
- Disarm immediately after a crash. A blocked propeller overloads the motor and the electronic speed controller (ESC).

1.3 Li-Po and LiHV batteries

The drone is powered by a single-cell (1S) Li-Po or LiHV battery, which is **not included**. Lithium batteries can catch fire if handled improperly.

- Charge only with a charger designed for Li-Po / LiHV, on a non-flammable surface and under supervision. Do not leave a charging battery unattended.
- Charge Li-Po to a maximum of **4.20 V** and LiHV to a maximum of **4.35 V** (1S = one cell).
- End the flight at the latest when the voltage drops to **3.5 V**. Deeper discharge permanently damages the battery.

- Do not use a swollen, mechanically damaged or overheated battery any further; take it to a collection point.
- Disconnect the battery after the flight. Do not leave it connected to the drone during transport or storage.

1.4 Operating environment and heat

- The drone is intended primarily for indoor flying and calm weather. Do not fly in rain, snow, fog or strong wind.
- The video transmitter gets very hot during operation. Take off as soon as possible after connecting the battery, do not touch it while it is running and cool it with a fan during longer bench work (configuration, updates).
- The video transmitter antenna must be fitted before the battery is connected, otherwise components may be damaged.
- According to the manufacturer Walksnail (Caddx), the operating temperature of the video transmitter is $-20\text{ }^{\circ}\text{C}$ to $40\text{ }^{\circ}\text{C}$.

2. Product description

2.1 Package contents

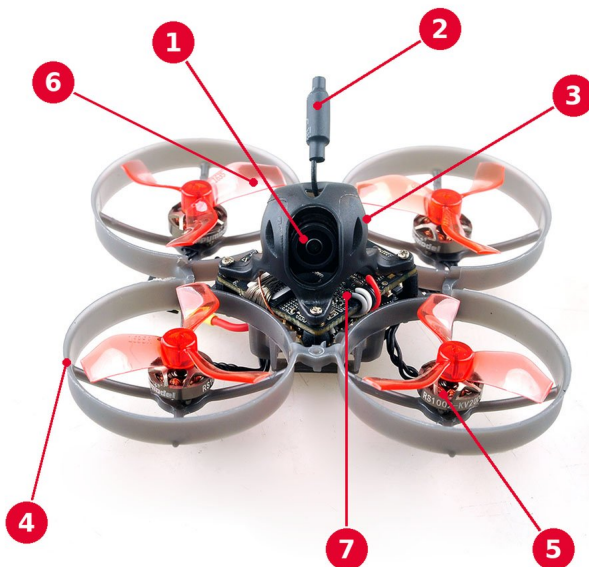
Item (according to the manufacturer)	Qty
Mobula7 V4 75 mm frame with canopy	1
SuperX HD ELRS flight controller (AIO)	1
Happymodel 1002 KV20000 motor	4
Gemfan propeller set (4× CW + 4× CCW)	1
Walksnail Avatar Nano camera	1
Walksnail Avatar Mini 1S video transmitter	1
Spare canopy	1
Propeller removal tool	1
Screwdriver	1

The camera, video transmitter, flight controller and motors are already mounted on the drone in the factory state. **Not included:** battery, charger, radio transmitter and goggles.



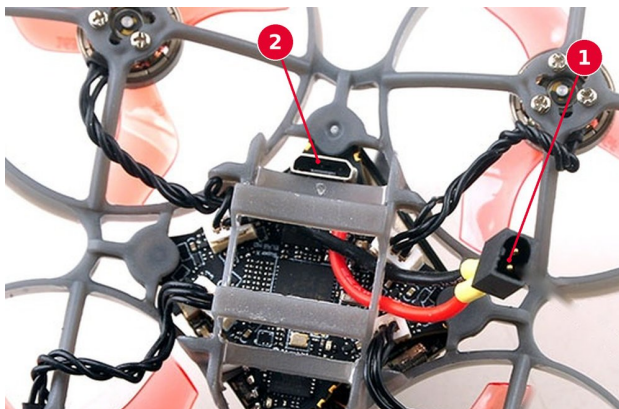
Package contents (illustrative manufacturer photo)

2.2 Parts overview



Front view

- ① Walksnail Avatar Nano camera
- ② Video transmitter antenna
- ③ Canopy – protects the camera and the video transmitter
- ④ Frame with protective duct
- ⑤ 1002 KV20000 motor
- ⑥ Propeller
- ⑦ SuperX HD ELRS flight controller and Avatar Mini 1S video transmitter



Bottom view - detail

- ① A30 battery connector
- ② USB port of the flight controller (for connecting to a computer)

2.3 Technical data

Parameter	Value
Model	Moblite7 Walksnail V3
Wheelbase (motor diagonal)	75 mm
Dimensions	98 × 98 × 48 mm
Weight without battery	34.5 g
Power supply	1S Li-Po or LiHV (1S only)
Battery connector	GNB A30
Flight controller (FC)	SuperX HD ELRS, MCU STM32F411CEU6
Receiver	built-in UART ExpressLRS 2.4 GHz, CRSF protocol
Motors	Happymodel 1002 KV20000, 9N12P, shaft Ø 1.5 mm
Propellers	Gemfan, tri-blade
Video transmitter	Walksnail Avatar Mini 1S, 5.725–5.850 GHz
Camera	Walksnail Avatar Nano, 1/2.7", FOV 170°
Video recording	to the built-in memory of the video transmitter, 8 GB
Blackbox	on the onboard memory of the flight controller

※ Data according to Happymodel; video transmitter and camera data according to Walksnail (Caddx).

2.4 Flight controller (FC) and receiver

The SuperX HD ELRS integrates the processor, gyroscope, 4-in-1 ESC and ExpressLRS receiver on one board (AIO).

Parameter	Value
FC firmware	Betaflight, target CRAZYBEEF4DX
Gyroscope / accelerometer	BMI270 or ICM42688P (SPI)
Board input voltage	1–2S (2.8–8.7 V); in this drone 1S only
ESC	4-in-1, BLHeli_S, Bluejay firmware; 12 A continuous, 15 A peak (3 s)
Motor protocol	DSHOT300
OSD	no analogue OSD chip; OSD is displayed by the Walksnail goggles (MSP DisplayPort)
Receiver	ExpressLRS 2.4 GHz, connected to UART2, CRSF protocol
Receiver antenna	enamelled copper wire, 31 mm long
Telemetry power	< 12 dBm

The receiver is hardware-identical to the Happymodel EP1 receiver. In the factory configuration, UART1 is used by the video transmitter and UART2 by the built-in receiver.

❖ **An external receiver cannot be connected in the factory state without changing the wiring and configuration of the flight controller. Such an intervention is at your own risk.**

2.5 Video transmitter and camera

Data stated by the manufacturers Walksnail (Caddx) and Happymodel. The Walksnail Avatar system transmits the video digitally to Walksnail Avatar goggles.

Parameter	Value
Video transmitter	Walksnail Avatar Mini 1S
Frequency band	5.725-5.850 GHz
Transmit power (e.i.r.p.), CE mode	< 14 dBm
Recording	1080p / 720p, built-in memory 8 GB
Bitrate	25 Mbps / 50 Mbps
Average latency	22 ms
Antenna connector	IPEX
Camera	Walksnail Avatar Nano
Sensor	1/2.7"
Resolution	1080p/60 fps, 720p/120 fps, 720p/60 fps
Aspect ratio	16:9, 4:3
Lens	2.1 mm, F2.0, FOV 170°
Shutter	rolling shutter

3. Legal conditions of operation in the Czech Republic and the EU

3.1 The law of the country where you fly applies

Regulations (EU) 2019/947 and 2019/945 apply in all member states of the European Union, but national implementing rules differ from country to country – registration portals, minimum pilot age, geographical zones, compulsory insurance, permitted frequency bands and maximum transmit power. The information in this chapter describes the situation in the Czech Republic. If you operate the drone in another country, you must follow the regulations of the country in which you fly.

3.2 Drone classification and operating category

The Moblite7 Walksnail V3 **has no C0-C4 class identification label** under Regulation (EU) 2019/945 and is not a privately built drone.

- After 31 Dec 2023, drones without a class label may be operated in the open category only under the conditions of Art. 20 of Regulation (EU) 2019/947: in subcategory **A1** if the drone's maximum take-off mass (MTOM) including the battery is **less than 250 g**, and only if the product was placed on the market **before 1 Jan 2024**.
- Whether your particular unit meets this condition depends on the interpretation of the term “placing on the market”. In unclear cases, contact the Czech Civil Aviation Authority (ÚCL), www.caa.gov.cz, or the aviation authority of your country.
- Another option is operation within a model aircraft club or association authorised under Art. 16 of Regulation (EU) 2019/947.
- Verify the actual take-off mass including the battery and any accessories by weighing.

3.3 Operator registration and pilot competency

- The drone is equipped with a camera, i.e. a sensor able to capture personal data. The operator must therefore **register regardless of the drone's weight** (Art. 14(5) of Regulation (EU) 2019/947) in the state of residence. In the Czech Republic, registration is done on the ÚCL portal **dron.caa.gov.cz**.
- The operator registration number must be displayed on the drone.
- The minimum age of a remote pilot in the Czech Republic is **16 years**; a younger pilot may fly only under the direct supervision of a pilot who meets the requirements.
- The pilot must be familiar with this manual. For drones without a class label, ÚCL refers to completing the online training and test for subcategories A1/A3 – we recommend completing it.

3.4 Operating limits of the open category

- The maximum flight height is **120 m** from the closest point of the surface of the earth.
- The drone must always be in visual line of sight (VLOS) of the pilot or an observer (Chapter 3.5).
- Never fly over assemblies of people. Avoid flying over uninvolved persons and keep a safe distance from people.
- Respect geographical zones for unmanned aircraft (airports, protected areas, prohibited and restricted areas). ÚCL publishes the current map for the Czech Republic.
- Do not fly over other people's property or near buildings without the owner's consent.

3.5 Flying with FPV goggles

When flying with FPV goggles, the pilot cannot see the drone directly. You can therefore meet the visual line of sight requirement only with the help of an **unmanned aircraft observer** who stands next to you, watches the drone and the surrounding airspace without optical aids and can communicate with you immediately. The pilot remains responsible for the safety of the flight.

3.6 Radio frequencies and transmit power

The drone contains two radio devices. Frequency bands and maximum transmit power according to the manufacturers, and the limits applicable in the Czech Republic:

Device	Band	Max. power (manufacturer)	Limit in the Czech Republic
ExpressLRS receiver (telemetry)	2.4 GHz	< 12 dBm	2400-2483.5 MHz: 25 mW e.i.r.p. (VO-R/10), or 100 mW e.i.r.p. (VO-R/12)
Walksnail video transmitter	5.725-5.850 GHz	< 14 dBm e.i.r.p. (CE mode)	5725-5875 MHz: 25 mW e.i.r.p. (VO-R/10, Art. 3)

- The video transmitter is factory-set to **CE** mode. Modes for other regions (e.g. FCC) allow higher power and additional channels – **do not use them** in the Czech Republic and the EU.
- The user is responsible for the transmit power setting. Outside the Czech Republic, the limits and bands of the respective country apply.
- Operate the devices only with the antenna supplied by the manufacturer, without additional power amplifiers.
- The radio transmitter and goggles are separate radio devices; their power and bands are stated by their manufacturers.

3.7 Data protection and insurance

- The camera may record people, their property and privacy. Respect data protection regulations (GDPR) and the right to privacy; do not publish recordings of people without their consent.
- For operating a drone under 250 g in subcategory A1, liability insurance is not compulsory in the Czech Republic (Section 54d of Act No. 49/1997 Coll.). We nevertheless **strongly recommend** it – for example as part of personal liability insurance or through membership in a model aircraft club.
- In many other EU countries, insurance is compulsory – check the conditions of the country in which you fly.

4. Preparing for the first flight

4.1 What else you need

- A **radio transmitter** with an ExpressLRS 2.4 GHz module (internal or external).
- **Walksnail Avatar goggles** for receiving the video.
- **1S Li-Po or LiHV batteries** with an A30 connector (Chapter 4.2).
- A **charger** for single-cell Li-Po / LiHV batteries.
- A computer with **Betaflight Configurator** and a USB data cable for the flight controller.
- A small fan for cooling the video transmitter during bench work.

4.2 Choosing and connecting the battery

The drone is designed exclusively for single-cell (1S) Li-Po or LiHV batteries. The drone connector is of type **A30** (figure in Chapter 2.2, ①). The manufacturer recommends a battery with a lead wire and states that batteries with A30 and BT2.0 plugs are compatible.

Battery state (1S)	Li-Po	LiHV
Fully charged	4.20 V	4.35 V
End the flight	3.5 V	3.5 V
Storage	3.8 V	3.8 V

- Always insert a **fully charged** battery before flight.
- Fasten the battery under the frame so that it cannot come loose in flight or interfere with the propellers.
- Connect it only just before the flight, with the radio already switched on and the Arm switch in the Disarm position. Keep the drone still after connecting until the gyroscope has initialised.
- Observe the correct polarity when connecting. Do not force the connector.

4.3 Propellers

- The propellers are fitted at the factory. Two propellers rotate clockwise (CW) and two counter-clockwise (CCW). When replacing, always fit a new propeller of the same type in the same position as the original.
- In the factory configuration, the motor direction is reversed (*yaw_motors_reversed*, so-called props out). Do not change this setting without swapping the propellers accordingly.
- Remove the propellers with the supplied tool, not by pulling on the blades – the motor shaft may bend.

5. Setup

5.1 Connecting to a computer

- ① Remove the propellers or disconnect the battery – there must be no risk of the motors starting unexpectedly during configuration.
- ② Connect the drone with a USB data cable to the flight controller port (figure in Chapter 2.2, ②).
- ③ Start Betaflight Configurator and select *Connect*.
- ④ To check the receiver, motors and OSD, the battery must be connected as well – USB power alone is not sufficient for the video transmitter or the ESCs. In this case the propellers must be removed.
- ⑤ Cool the video transmitter with a fan during longer bench work.

5.2 Binding the ExpressLRS receiver

The built-in receiver is connected via UART2 using the CRSF protocol. The transmitter module and the receiver must run ExpressLRS firmware of the same major version. They can be bound in two ways:

► Using a binding phrase (recommended)

Enter the same *binding phrase* in both the transmitter module and the receiver – when flashing the firmware in ExpressLRS Configurator or via the receiver's web interface (Wi-Fi). The ExpressLRS project recommends a unique phrase of at least 8 alphanumeric characters. After power-up, the devices connect automatically.

► By power-cycling the receiver three times

- ① Switch off the radio transmitter.
- ② Connect the battery (the receiver LED lights up) and disconnect it within 2 seconds. Repeat this twice more and then leave the battery connected.
- ③ The receiver LED shows a quick double blink – the receiver is in bind mode. If not, repeat the procedure.
- ④ Switch on the radio and select *Bind* in the ExpressLRS menu (Lua script).
- ⑤ After successful binding, the receiver LED is solid.

※ If the receiver LED keeps blinking after the radio has been switched on, the receiver has no connection. Detailed procedures can be found at www.expresslrs.org (Chapter 5.8).

5.3 Pairing the video transmitter

Procedure according to the manufacturer Walksnail (Caddx). The goggles and the video transmitter should run the latest firmware of the same version.

- ① Switch on the goggles and connect the battery to the drone.
- ② Wait for the video transmitter to initialise – its LED flashes green rapidly.
- ③ Briefly press the bind button on the video transmitter. The LED turns solid red.

- ④ Press the bind button on the goggles (e.g. with a SIM eject pin). The goggles start beeping repeatedly.
- ⑤ After successful pairing, the video transmitter LED is solid green, the goggles stop beeping and display the image.

✱ **Do not hold the bind button of the video transmitter for long. Holding it for about 8 s switches the transmitter to firmware update mode.**

Video transmitter LED	Meaning (according to the manufacturer)
Solid red	bind mode or no firmware detected
Rapidly flashing red	firmware update
Solid green	connected, image output is normal
Rapidly flashing green	wireless link not established
Slowly flashing green	camera not detected
Alternating red and green	video transmitter overheating

5.4 Switches and flight modes

Factory configuration of the flight controller (according to the manufacturer's configuration, channel map AETR):

Channel	Position	Function
AUX1 (channel 5)	high	Arm (motors on)
AUX2 (channel 6)	middle	Angle mode (self-levelling)
AUX2 (channel 6)	low / high	Acro mode (no self-levelling)
AUX3 (channel 7)	high	Turtle mode (flip over after a crash)

Assign the switch positions on your radio to match the table and check them in Betaflight Configurator on the *Modes* tab. You can change the assignment to suit your habits. We recommend that beginners fly in Angle mode.

5.5 Accelerometer calibration

Place the drone on a flat, level surface, connect it to Betaflight Configurator and select *Calibrate Accelerometer* on the *Setup* tab. Do not move the drone during calibration. Repeat the calibration if the drone drifts to one side in Angle mode.

5.6 Checking motors and propellers

- Carry out the check **with the propellers removed**.
- On the *Motors* tab, confirm the safety notice and spin up the motors one by one. Check that the order and direction of rotation match the diagram in the program.
- Replace or clean any motor that does not run smoothly, vibrates or stutters before flying.

5.7 Arm, Disarm and failsafe

- **Arm** (motors on) is only possible with the throttle at its lowest position and with a link to the radio. After Arm, the motors spin at idle.
- **Disarm** (motors off) by switching the Arm switch back. Disarm immediately after every landing and every crash.
- **Failsafe**: in the factory configuration, the flight controller stops the motors when the radio signal is lost (*Drop procedure*) and the drone falls. Test the failsafe with the propellers removed by switching off the radio.
- The failsafe settings can be changed on the *Failsafe* tab; the user is fully responsible for the settings.

5.8 Firmware and further guides

- Betaflight firmware: target **CRAZYBEEF4DX**. Before updating, save a backup of your settings in the CLI (*diff all*). The manufacturer's default configuration (dump) is available at www.happymodel.cn for the Moblite7 Walksnail V3.
- ESC firmware: **Bluejay**; configuration via ESC-Configurator or BLHeli_S Suite.
- ExpressLRS receiver: update via ExpressLRS Configurator, Wi-Fi or Betaflight pass-through.
- Video transmitter: download the firmware file from the manufacturer's website www.caddxfpv.com, copy it to the built-in memory of the transmitter and hold the bind button for about 8 s. Do not disconnect the power during the update and cool the transmitter with a fan.

Official documentation for radios with EdgeTX and for the ExpressLRS system is available on the websites edgetx.org and expresslrs.org.



EdgeTX - official website – radio, model and switch configuration.
edgetx.org



ExpressLRS - official website – binding, firmware updates and power settings.
expresslrs.org

6. Flying

6.1 Pre-flight check

- The battery is **fully charged** (Li-Po 4.20 V, LiHV 4.35 V) and securely fastened.
- The propellers are intact and correctly fitted; the duct and canopy are not cracked.
- The video antenna is fitted; the receiver antenna is clear of the propellers.
- The radio is on and linked to the receiver, the Arm switch is in the Disarm position, throttle low; the goggles show the image and OSD.
- The flight area is free of people and animals; an observer is present for FPV.

6.2 Take-off and basic control

- ① Place the drone on a flat surface, connect the battery and wait for the image in the goggles.
- ② Select the flight mode (beginners: Angle) and Arm.
- ③ Smoothly increase the throttle until the drone takes off. Stay low for the first few flights.
- ④ To land, smoothly reduce the throttle and Disarm immediately after touchdown.

6.3 Monitoring voltage and ending the flight

The OSD in the goggles shows the battery voltage. End the flight at **3.5 V** (1S) at the latest, measured in a calm hover. Let the battery cool before charging.

6.4 Video recording

- The video transmitter records to its built-in 8 GB memory (1080p or 720p). Recording is configured in the menu of the Walksnail goggles; automatic start on Arm can be selected.
- Disconnect the battery only after recording has stopped (after Disarm) to avoid corrupting the file.
- To copy recordings, connect the USB connector of the video transmitter to a computer while powering it from the battery (propellers removed). The cable is not listed in the package contents.

6.5 After a crash

- Disarm immediately.
- If the drone lies upside down in a safe place, use **Turtle mode**: while disarmed, switch on Turtle (AUX3), Arm and flip it with a short stick movement; then Disarm and switch Turtle off.
- Otherwise retrieve it, disconnect the battery and inspect it.

7. Maintenance and troubleshooting

7.1 After every flight

- Disconnect and remove the battery.
- Check the propellers, duct, canopy, antennas, motor wires and that the screws are tight.
- Remove hair, dust and dirt from the motors – wound-up hair slows the motor down and overheats it.

7.2 Replacing propellers and the canopy

- Replace a damaged propeller with one of the same type and direction of rotation (CW / CCW). Remove it with the supplied tool.
- When fitting a propeller, press on its centre, not on the blades, and support the motor shaft.
- Replace a cracked canopy with the spare one from the package. Make sure the camera and antenna cables are not pinched.

7.3 Storage

- Store batteries disconnected, charged to **3.8 V**, in a non-flammable container.
- Store the drone in a dry place, out of the reach of children and direct sunlight; protect the antenna and camera during transport.

7.4 Troubleshooting

Problem	Possible cause and solution
Cannot Arm	Throttle not low, no link to the radio or the switch is set differently. Betaflight Configurator shows the reason (<i>Setup</i> tab).
Receiver does not connect	Different binding phrase or ExpressLRS major version in the transmitter and receiver. Bind again (Chapter 5.2).
No image in the goggles	Transmitter and goggles are not paired, run different firmware or a different channel is set. Check the video transmitter LED (Chapter 5.3).
Transmitter LED alternates red and green	Overheating. Disconnect the battery and let the transmitter cool down; use a fan on the bench.
Drone flips over on take-off	Incorrectly fitted propellers (CW/CCW), wrong motor order or direction. Check according to Chapters 4.3 and 5.6.
Drone drifts to one side	Uncalibrated accelerometer (Chapter 5.5) or damaged propeller.
Strong vibrations, shaky image	Bent propeller, hair wound around the motor or a damaged motor.

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@rotorama.cz
Phone	+420 252 252 098
Website	www.rotorama.com

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@rotorama.cz.
- **Product identification:** type designation **Moblite7 Walksnail V3** (manufacturer Happymodel); the firmware version of the flight controller is shown by Betaflight Configurator after connecting the drone to a computer.

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

Rights of the buyer under Czech law

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.