SprayCapture BELL mk.2
SprayCapture ELLIPSE mk.2

Setup Instructions and User Manual
English version

06/2023

Table of Contents

Revision overview

Date	Revision	Name	Description of change	Reason for change
06.06.2023	1.0	JK	First draft	First published version
28.7.2023	1.1	JK	Power supply	Added second PSU
29.11.2023	1.2	JK, JC	Changed images Changed power	PSU and chassis changes
12.6.2023	1.3	JC	Error Codes Manual	Added section of Error Codes

Notes on the instructions

This manual will help you to safely prepare and perform the setup for the SprayCapture BELL mk.2 and SprayCapture ELLIPSE mk.2 devices.

SprayCapture BELL mk.2 and SprayCapture ELLIPSE mk.2 devices are hereinafter referred to as the "capturing device".
The marking of these two capturing devices is also used as BELL/ELLIPSE.
The start button is referred to as the "power button" in this manual.
The part with the sensors is referred to as the „camera box“ in this manual.
The part with the LED light sources is referred to as the „backlight“ in this manual.
The device is using two external power supplies of the same type and power.

Keep instructions available!

This manual is part of the capturing device.

- Always keep this manual with the capturing device.
- Make sure the manual is available to the user.
- Include this manual when transferring the capturing device.

Design features in the text

Various elements of this guide have specified design features. This allows you to easily distinguish the following elements:

normal text

BUTTONS OF THE SCREEN

"Menu labels"

➢ Action steps

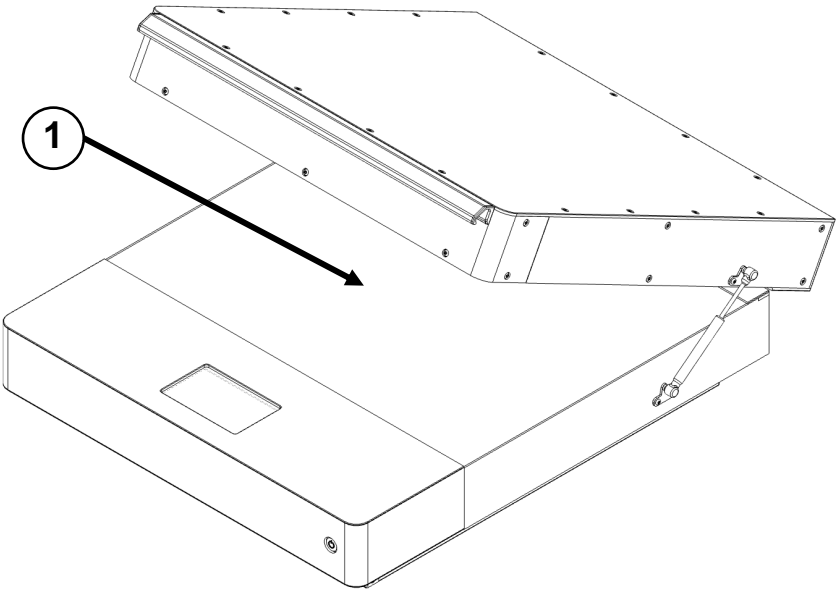
• First level enumeration

Cross-references

Tips contain additional information, such as specific details on how to prepare and perform the setup.

Design features in illustrations

When elements are referred to in a legend or in the running text, they are given a number (1)



Associated documents

Accompanying documents include:

- Unpacking and packing instructions
- Legal information (CE declaration of conformity, FCC, safety and EMC certificates, etc.).

Copyright

Contact detail of the manufacturer in Czechia

SprayVision s.r.o.
Technologická 372/2
70800 Ostrava
Tel.: +420 720 574 778
E-Mail: info@sprayvision.com
Web address: www.sprayvision.com

Technical support

You can reach SprayVision s.r.o. technical support at the following e-mail address:
support@sprayvision.com

Device safety

Environmental conditions

Make sure that the capturing device is used only under the following environmental conditions.

- Ambient temperature during operation: 5 °C to 40 °C (41 °F - 104 °F)
- Storage temperature: 0 °C to 60 °C (32 °F to 140 °F)
- Relative humidity: 20 to 80 %, non-condensing

➢ Ensure that the capturing device is not exposed to direct sunlight.

Basic safety instructions

Avoid injury or death from electric shock

➢ Never open the capturing device case.

➢ Do not expose the capturing device to dripping or splashing water, and do not place containers filled with liquid on the capturing device. Liquid ingress may damage the capturing device.

➢ Do not insert any objects into the capturing device through any slots or openings.

➢ Only connect the capturing device to a properly installed and grounded power outlet using the supplied power adapter.

➢ Do not use the power adapter if the housing or the cable of the power adapter is damaged. In this case, replace the power adapter with a one of the same type.

➢ Do not use the capturing device if it is visibly damaged. In this case, unplug the power cord from the wall outlet. Contact SprayVision technical support, see the Technical Support section.

Avoid burns

➢ Do not cover the existing openings in the capturing device housing. They are used for ventilation. Otherwise, the capturing device could overheat.

➢ Do not place the capturing device in front of air conditioners that emit intense heat.

Avoid cuts

The glass plate of the capturing device is only suitable for the weight of BOPET foils. Objects or body parts with higher weight may destroy the glass plate and cause cuts.

➢ Make sure that the weight of the item to be captured does not exceed 10 kg (22 lbs.)

Avoid broken bones, bruises and contusions

Incorrect routing of the cables can cause tripping.

➢ Lay the connection cables so that no one can trip over them.

The capturing unit weighs 50 kg (110.3 lbs.).

➢ Handle the capturing device only with the help of a second person.

➢ Place the capturing device only on a solid, level, vibration-free surface that is strong enough to support the weight of the capturing device.

Avoid material damage or malfunctions

➢ Ensure good room ventilation to maintain ambient conditions.

➢ Do not place the capturing device near equipment that emits strong electromagnetic radiation.

➢ Always place the capturing device on a suitable, stable table.

➢ Do not use cleaning agents containing abrasive additives, solvents or acids. Use a damp microfiber cloth.

➢ Only operate the touchscreen with your finger or a suitable, conductive pen with a rubber tip. Other objects can damage the touchscreen.

Responsibility of the operator

The capturing device operator must ensure that only qualified personnel perform the capturing device setup.

Personnel qualification

Personnel performing setup of the capturing device must be knowledgeable in setting up, connecting, and operating computer accessories.

Design features of warnings

This manual contains the following warnings:

WARNING	
	Notes with the word WARNING warn of a dangerous situation that can possibly lead to death or serious injury.

CAUTION	
	Notes with the word CAUTION warn of a situation that may result in minor or moderate injury.

The following symbols are used in the warnings:

Symbol	Explanation
	Danger due to electric shock
	General danger symbol

Design features of notices of damage to property

CAUTION	
	Notes with the word CAUTION warn of a situation that will result in property damage.

Description

Task and function

The capturing device is used as a hardware part for capturing of the clear foils with applied paint film which are then analyzed in the SprayVision software. This leads to digitalization of the paint process and data driven coating. The captured paint layers on the foils must comply with the characteristics according to the technical specifications. The capturing device is intended for use in the paint shops in the commercial sector.

General

Intended use also includes reading and understanding this manual and observing and following all instructions in this manual, especially the safety instructions. Any other user is expressly considered improper and will void any warranty and liability claims.

This equipment is not suitable for use in areas where children may be present.

The owner of the unit must ensure that only qualified personnel perform the installation and operating procedures of the capturing device.

Device with the usage of the backlight may only be operated by a person who has been properly trained during implementation by a SprayVision employee.
Upon request, SprayVision will provide an operator training document from this implementation that includes the name, date and signature of the person trained.

There are safety stickers on the device warning of the presence of all sources of the light with a requirement to close the backlight during capturing.

When capturing images, the backlight cover must always be closed to avoid direct contact of the light with the eyes of the person operating the device. There is also safety tilt sensor installed which disconnects all mentioned LED sources when the backlight is opened.

Used light sources

Capturing device is using three different sources of the light for capturing the images. The standard backlight consists of VISIBLE LIGHT (300-700nm), UV-A LIGHT (365nm) and INFRARED LIGHT (850nm).

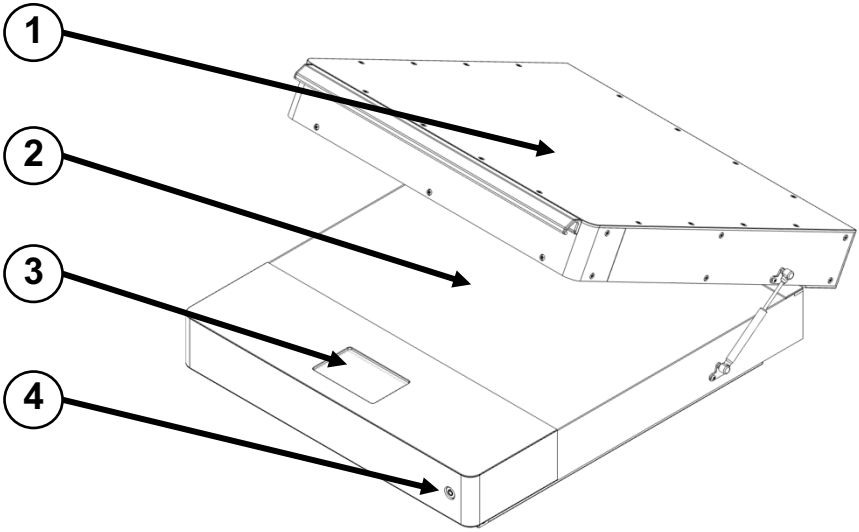
WARNING	
	The device emits light in the 380-700nm wavelength range. **Danger of blue light to the retina.** Avoid eye exposure. **Do not open the backlight cover when using the device.**

WARNING	
	The device emits light in the 365nm wavelength level. **Danger of ultraviolet light 200-400nm.** Avoid exposure of eyes and skin to unshielded product. **Do not open the backlight cover when using the device.**

WARNING	
	The device emits light in the 850nm wavelength level. **Danger of infrared light 760-1400nm.** Avoid exposure of eyes and skin to unshielded product. **Do not open the backlight cover when using the device.**

Overview SprayCapture BELL/ELLIPSE

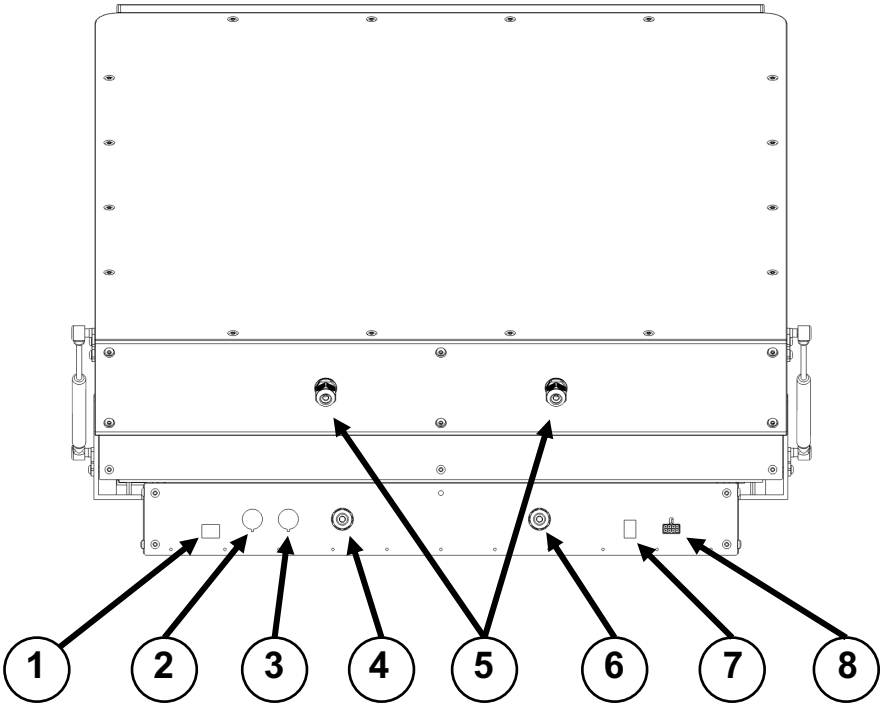
The following figure shows the basic overview of the capturing device.



No.	Designation
1	Backlight with VISIBLE/IR/UV LEDs
2	Glass plate
3	Touchscreen
4	Power button

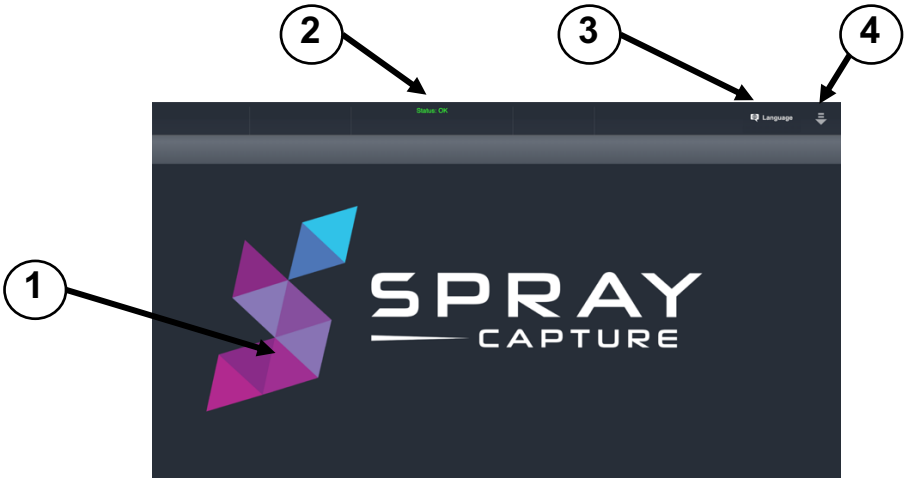
Overview back side

The following figure shows the back side of the capturing device.



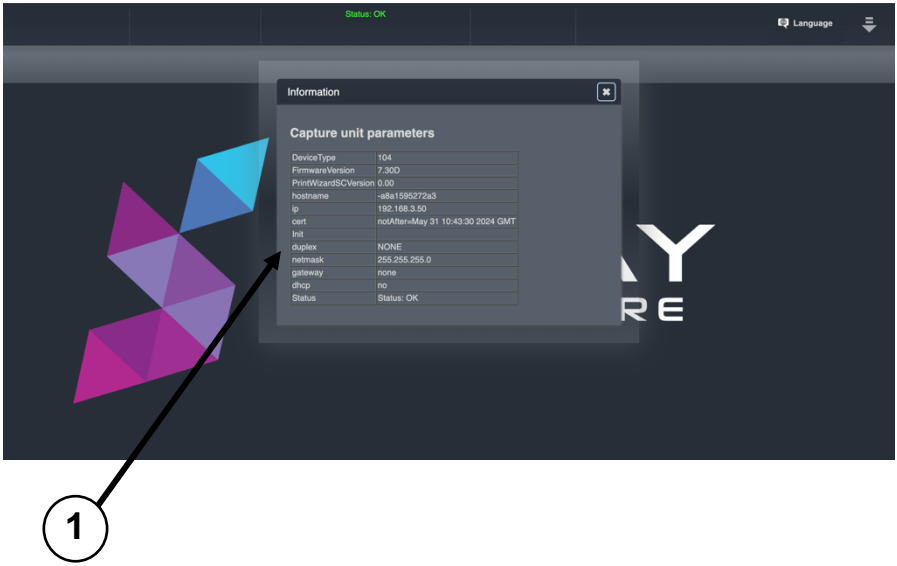
No.	Designation
1	RJ45 network connection socket Main power switch (Computer)
2	USB1 – service computer port
3	USB2 – service MCU port
4	Backlight communication – base part (Nr.1)
5	Backlight communication – backlight part part (two ports)
6	Backlight communication – base part (Nr.2)
7	Main power switch
8	Connection socket 24V DC for external power adaptor

Overview of the touchscreen basic GUI



No.	Designation
1	Main screen for the previews of captured images
2	Capturing device status window
3	Language selector button
4	Button for more detailed information

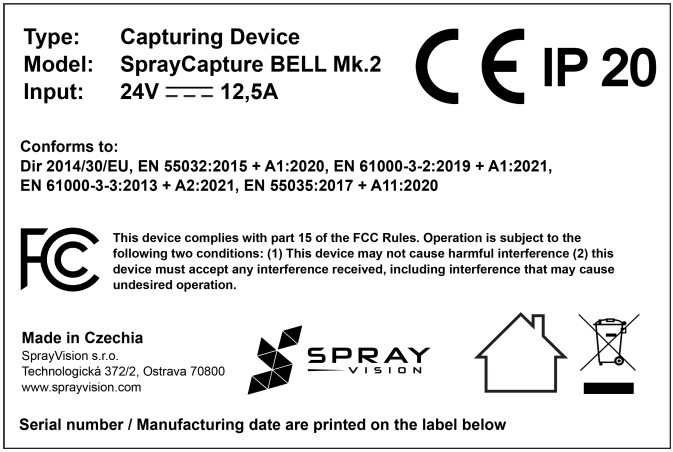
Overview of the detailed info on the touchscreen



No.	Designation
1	Table with the detailed information of the capturing device of the firmware version, network settings, serial number and certification validity

Rating plate

The rating plate is located on the back of the capturing device.
The following figure shows the rating plate of the SprayCapture BELL model.



Serial number

The serial number of the capturing device is located on the back of the device below the rating plate.
Keep the serial number handy when calling for support.

User interface

The capturing device can be operated in two ways:

- Via the touch screen and the Touch user interface
- Via a standard web browser with SprayVision Web application user interface

Installation site

Environmental conditions

When operating the capturing device, make sure that the room is well ventilated to ensure the proper operating conditions.

The installation site must be chosen so that:
- The side distance between capturing device and wall is at least 100 mm,
- The distance between the back of the device and the wall is at least 200 mm,
- The distance to a door or room entrance is at least one meter.

Place the capturing device on a level and stable base. The load-bearing capacity of the base must be suitable for the weight of the capturing device (maximum 50 kg, 110.3 lbs.). The dimensions of the base must be suitable for the footprint of the capturing device.

After changing from a cold to a warm environment, allow at least one hour for the capturing device to adjust to the ambient temperature before turning it on.

When the capturing device changes from a cold to a warm environment, condensation moisture may form inside the housing.
This disappears when the housing temperature has adjusted to the ambient temperature. Condensation moisture can lead to poor capturing results or even damage the capturing device.

Prepare setup

Connecting the power adapter

WARNING	
	Risk of electric shock due to incorrect connection. ➢ Ensure that the mains socket is earthed in accordance with local regulations.

CAUTION	
	Incorrect routing of the connection cables can cause tripping, broken bones, bruises and crushing. ➢ Lay the connection cables so that no one can trip over them.

To connect the power supply, proceed as follows – these steps are the same for both used power supplies:

➢ Make sure the capturing device main power switch is turned off (0 position).
➢ Use only the supplied power adapter and power adapter cable.
➢ Make sure that the power adapter cable is undamaged.
➢ Connect the low voltage plug to the corresponding DC connector on the back of the capturing device.
➢ Connect the power adapter plug to a power outlet of suitable voltage. (100-240 V AC)

Establish network connection

CAUTION	
	Incorrect routing of the connection cables can cause tripping, broken bones, bruises and crushing. ➢ Lay the connection cables so that no one can trip over them.

To establish the network connection, follow the steps below:

➢ Connect one plug of the supplied network cable to the network connection jack on the back of the capturing device.

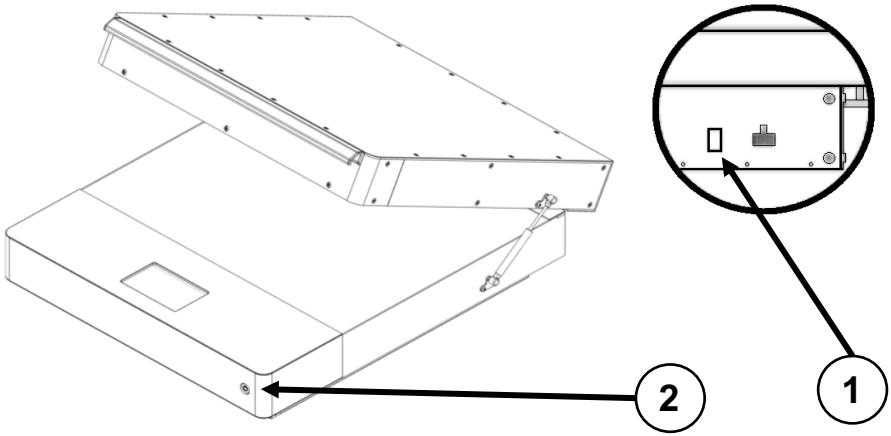
➢ Connect the second plug to the network connection socket of an existing network (router/switch/ethernet slot on the computer – preffered solution)

Switch on the capturing device

To switch on the capturing device, proceed as follows:
➢ Press the MAIN POWER SWITCH (1) to the "I" position.

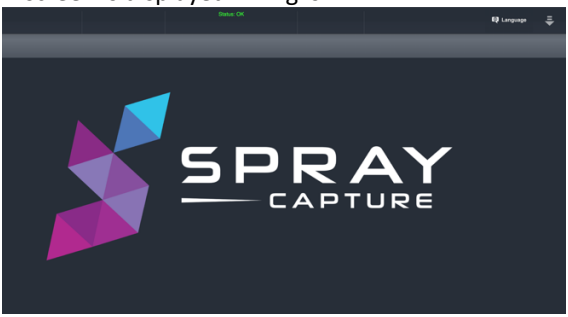
The following figure shows the SprayCapture BELL model.

The capturing device is in stand-by mode.



To exit stand-by mode, proceed as follows:
➢ Press the POWER button (2).
The power button lights up blue.

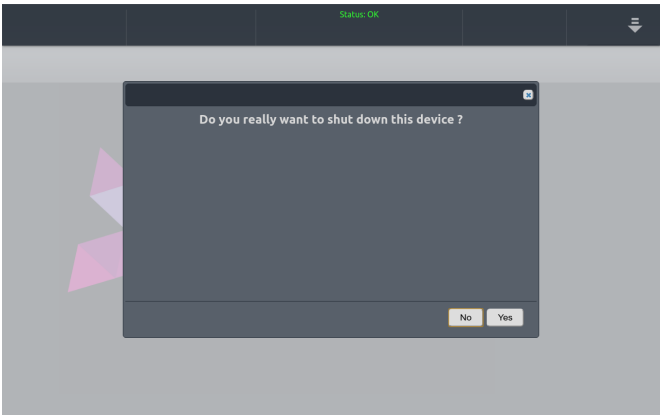
The capturing device performs a system test. After a short waiting time, the "Startup Screen" screen is displayed in English.



Switch off the capturing device

To switch the capturing device to stand-by mode after performing the initial setup or ending the work with SprayVision application, proceed as follows:

➢ Press the POWER button (2) briefly to access the confirmation of shutdown menu. Do not press the POWER button for longer than 5 seconds, otherwise the capturing device will be forced off.



➢ Confirm with YES.
The capturing device will shut down. This process can take up to approx. 40 seconds.

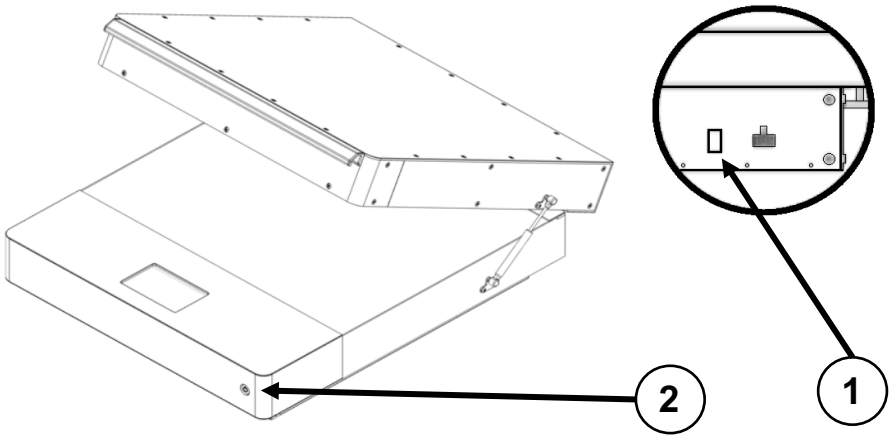
The capturing device is in stand-by mode.

If you will not be using the capturing device for an extended period of time, you can further reduce power consumption by turning off the stand-by power. To do this, follow the steps below:

➢ Make sure the capturing device is in stand-by mode.

➢ Press the MAIN POWER SWITCH (1) to the "0" position.

The following figure shows the SprayCapture BELL model.



System restore

Solid State Disk Software Error

The file system and Linux operating system of the capturing device are very robust and fault tolerant. The file system is capable of repairing itself even if the system loses power during a hard drive write, which would almost certainly damage any Windows, Android, or MAC operating system based computer. However, it is still possible for Linux software on the SSD to become corrupted under certain circumstances. Unexpected power outages, hard shutdowns via the main power switch without a prior controlled shutdown, and other unexpected interruptions to the operating system can cause this type of disruption. In addition, any uncontrolled interruption of a firmware update procedure or other functions that involve writing to main storage (SSD) poses a potential risk to the integrity of the firmware on the SSD. The operating system of any SprayVision capturing device is Linux based and although it is very rare, Linux can be corrupted like any other operating system.
If the Linux operating system or other parts of the SSD are damaged, there is still no need to replace the SSD, at least not until the recovery procedure is performed once. These recovery procedures are similar to the procedures necessary to restore other operating systems to a previous state.

Recovery points

Factory backup copy of the Linux operating system is stored on the internal SSD. This copy is created during manufacturing. This is the restore point labeled "Factory Default".

To perform the Factory Default backup, please contact the SprayVision technical support.

Cleaning

To keep the capturing device in good working condition, make sure it is free of dust, paint, grease, and other contaminants. Capturing devices are high resolution optical instruments with high quality glass parts. Since a device will reveal smaller particles of dirt and dust, special care must be taken to keep all parts, and especially all glass parts, as clean as possible.

The cleaning intervals are determined by the capturing device environment and the type of the foils, as well as the frequency of use. The capturing device should be cleaned under the following circumstances.

➢ When sporadic or frequent image quality problems occur.

➢ When sporadic or frequent cropping problems occur, even though the foil is in the correct area of the capturing area.

To avoid electric shock and other potential damage, make sure the capturing device is turned off and unplugged before cleaning. Do not allow water to enter the capturing device.

Proper general cleaning should include the following:

➢ Use an electric vacuum cleaner to remove dust from all parts before proceeding to clean other parts of the product. Be careful not to touch any parts with the dust cleaning hose.

➢ Clean the outer surface of the device with a damp cloth. Dampen the cloth and wring it out as much as possible. For best results, use a microfiber cloth.

➢ The glass surfaces of the capturing device should only be cleaned using a soft, lint-free cloth.

➢ Use a mild soap and water solution only when necessary. Do not use abrasive cleaners and solvents.

➢ Wipe the device dry with a soft, lint-free cloth. Be especially careful when cleaning the touch screen.

Technical Specifications

Optical system SprayCapture BELL

Maximum Foil Size	610 x 457 mm (24 x 18 inch)
Pixel Dimension	9.3 × 9.3 µm
File Formats	PNG (RAW), TIFF (RAW)

Optical system SprayCapture ELLIPSE

Maximum Foil Size	305 x 457 mm (12 x 18 inch)
Pixel Dimension	9.3 × 9.3 µm
File Formats	PNG (RAW), TIFF (RAW)

Electrical Specifications

External Power Supplies (Two same models)	
Voltage	100 – 240 V AC
Frequency	47 – 63 Hz
Operating Temperature	5 to 40 °C (40 to 105 °F)
Relative Humidity	20 to 80 % (non-condensating)
ECO Standard	CEC Level VI

Capturing device	
Voltage	24 V DC
Current	Max. 12,5 A

Illumination System	
Light Source	Two LED lamps with VIS (white) Two LED lamps with UV (365nm) Two LED lamps with IR (850nm) White diffusion backlight
Warm-up Time	None
Temperature Dependency	None
Lamp Lifetime	White 50,000 h (typ.), Backlight 50.000 h (typ.), UV 20.000 h (typ.), IR 20.000 h (typ.).

Power Consumption	
Sleep	< 0.5 W
Stand-By	2.5 W
Ready to Capture (Without LEDs)	100W
Capturing (With LEDs)	230W

Dimensions and Weight

Device Outer Dimensions (H x W x D)	320 x 800 x 1050 mm (12.6 x 31.5 x 41.3 inch)
Device Weight	50 kg (110.3 lbs.)
Transport Box Dimensions (H x W x D)	350 x 1000 x 1200 mm (13.8 x 39.4 x 47.3 inch)
Device Weight, Ready to Ship	90 kg (198.4 lbs.)

Ambient Conditions

Operating Temperature	5 to 40°C (40 to 105°F)
Storage Temperature	0 to 60°C (32 to 140°F)
Relative Humidity	20 to 80% (non-condensing)
Noise	< 42 dB(A) (Operating) < 25 dB(A) (Stand-by)

Error Code Manual

Error number	Description	Full description
5	E05 UCC BOARD	UCC board failure
5	E05 UCC BOARD	UCC board failure
5	E05 UCC BOARDS	UCC boards failure
5	E05 WT-CNT BOARD	WT-CNT board failure
5	E05 WT-CNT BOARD	WT-CNT board failure
5	E05 BE5-CNT BOARD	BE5-CNT board failure
5	E05 S2N BOARD	S2N board failure
6	E06 POWER SUPPLY FAILED	Power supply failed
55	E55 WRONG UCC HW CCD PORTS	Wrong UCC Board detected (not enough CCD ports)
55	E55 WRONG UCC HW CCD PORTS	Wrong UCC Board detected (not enough CCD ports)
55	E55 WRONG UCC HW CCD PORTS	Wrong UCC Board detected (not enough CCD ports)
55	E55 WRONG S2N HW CIS PORTS	Wrong S2N Board detected (not enough CIS ports)
56	E56 WRONG UCC HW REVISION NOT OK	Wrong UCC Board detected (Revision not OK)
56	E56 WRONG UCC HW REVISION NOT OK	Wrong UCC Board detected (Revision not OK)
56	E56 WRONG UCC HW REVISION NOT OK	Wrong UCC Board detected (Revision not OK)
56	E56 WRONG S2N HW REVISION NOT OK	Wrong S2N Board detected (Revision not OK)
20	ERROR 20: MOTOR 1/1 (CCD DRV) SWITCH PERM. OPEN	Motor 1 / PCI 1 (CCD drive): End switch permanently open
20	ERROR 20: MOTOR 1 (CCD DRV) SWITCH PERM. OPEN	Motor 1 (CCD drive): End switch permanently open
20	E20 MOTOR 1 (O) SCAN DRIVE	Motor 1 (Scan drive): End switch permanently open

21	ERROR 21: MOTOR 1/1 (CCD DRV) SWITCH PERM. CLOSED	Motor 1 / PCI 1 (CCD drive): End switch permanently closed
21	ERROR 21: MOTOR 1 (CCD DRV) SWITCH PERM. CLOSED	Motor 1 (CCD drive): End switch permanently closed
21	Error 21: Motor 1: Transport locked	Motor 1 / PCI 1 (Box drive): Transport locked
21	E21 MOTOR 1 (C) SCAN DRIVE	Motor 1 (Scan drive): End switch permanently closed
22	ERROR 22: MOTOR 2/1 (L. LAMP) SWITCH PERM. OPEN	Motor 2 / PCI 1 (Left lamp): End switch permanently open
22	ERROR 22: MOTOR 2 (L. LAMP) SWITCH PERM. OPEN	Motor 2 (Left lamp): End switch permanently open
22	E22 MOTOR 2 (O) LENS	Motor 2 (Lens): End switch permanently open
23	ERROR 23: MOTOR 2/1 (L. LAMP) SWITCH PERM. CLOSED	Motor 2 / PCI 1 (Left lamp): End switch permanently closed
23	ERROR 23: MOTOR 2 (L. LAMP) SWITCH PERM. CLOSED	Motor 2 (Left lamp): End switch permanently closed
23	E23 MOTOR 2 (C) LENS	Motor 2 (Lens): End switch permanently closed
24	ERROR: MOTOR 3/1 (R. LAMP) SWITCH PERM. OPEN	Motor 3 / PCI 1 (Right lamp): End switch permanently open
24	ERROR: MOTOR 3 (R. LAMP) SWITCH PERM. OPEN	Motor 3 (Right lamp): End switch permanently open
24	E24 MOTOR 3/1 (LENS 2) SWITCH PERM. OPEN	Motor 3 / PCI 1 (Lens CCD 2): End switch permanently open
25	ERROR 25: MOTOR 3/1 (R. LAMP) SWITCH PERM. CLOSED	Motor 3 / PCI 1 (Right lamp): End switch permanently closed
25	ERROR 25: MOTOR 3 (R. LAMP) SWITCH PERM. CLOSED	Motor 3 (Right lamp): End switch permanently closed
25	E25 MOTOR 3/1 (LENS 2) SWITCH PERM. CLOSED	Motor 3 / PCI 1 (Lens CCD 2): End switch permanently closed

26	E26 MOTOR 4 (Focus) SWITCH PERM. OPEN	Motor 4 (Focus): End switch permanently open
26	E26 MOTOR 4/1 (LENS) SWITCH PERM. OPEN	Motor 4 / PCI 1 (Lens): End switch permanently open
27	E27 MOTOR 4 (FOCUS) SWITCH PERM. CLOSED	Motor 4 (Focus): End switch permanently closed
27	E27 MOTOR 4/1 (FOCUS) SWITCH PERM. CLOSED	Motor 4 / PCI 1 (Lens): End switch permanently closed
28	E28 MOTOR 16/2 CRADLE TURN	Mechanical error motor 16 (book cradle turn)
29	E29 MOTOR 17/2 CRADLE HUB	Mechanical error motor 17 (book cradle hub)
1		Scanner in use
2		Invalid session ID
3	Error 3	Error 3
4		Invalid password
7	USER BREAK	Stop button pressed
8		User timeout
9	Warming up	Warming up
10		Invalid setting value
11		Setting does not exist
12		Invalid user docsize
14		Invalid resolution or color mode
19	No focus found	No focus found
30		File format not supported
31		Preview not possible
32		Invalid color conversion
33		No image available
34		Image too large for rotation
35	E35 LCD	E35 API
16	Paper in exit	Paper in exit
17	Paper in transport	Paper in transport

15	Document feeding error Please clear transport	Document feeding error
15	Document feeding error Please clear transport	Document feeding error
15	Document feeding error Please clear transport	Document feeding error
18	Paper jam Please clear transport	Paper jam
18	Paper jam	Paper jam
40	No focus point found	No focus point found
41	Error 41	Error 41
42	Error 42	Error 42
43	Error 43	Error 43
44	White balance failed	White balance failed
45		SNERR_SERVICE_REFLINE
61	E61 UCC FAILED BOARD 1	UCC board 1 failed
61	E61 UCC FAILED BOARD 1	UCC board 1 failed
61	E61 UCC FAILED BOARD 1	UCC board 1 failed
61	E61 CAM. FAILED CAMERA 1	Camera 1 failed
62	E61 UCC FAILED BOARD 2	UCC board 2 failed
62	E61 UCC FAILED BOARD 2	UCC board 2 failed
62	E61 UCC FAILED BOARD 2	UCC board 2 failed
62	E62 CAM. FAILED CAMERA 2	Camera 2 failed
63	E63 CAM. FAILED CAMERA 3	Camera 3 failed
64	E64 CAM. FAILED CAMERA 4	Camera 4 failed
65	E64 CAM. FAILED CAMERA 5	Camera 5 failed
66	E64 CAM. FAILED CAMERA 6	Camera 6 failed
67	E64 CAM. FAILED CAMERA 7	Camera 7 failed
68	E64 CAM. FAILED CAMERA 8	Camera 8 failed
69		CIS module 1 error
69		CIS module 1 error
69		CIS module 1 error

69	E69 CAM DATA BUS CAMERA 1	Camera 1 data bus error
70		CIS module 2 error
70		CIS module 2 error
70		CIS module 2 error
70	E70 CAM DATA BUS CAMERA 2	Camera 2 data bus error
71		CIS module 3 error
71		CIS module 3 error
71		CIS module 3 error
71	E71 CAM DATA BUS CAMERA 3	Camera 3 data bus error
72		CIS module 4 error
72		CIS module 4 error
72		CIS module 4 error
72	E72 CAM DATA BUS CAMERA 4	Camera 4 data bus error
73		CIS module 5 error
73		CIS module 5 error
73		CIS module 5 error
73	E73 CAM DATA BUS CAMERA 5	Camera 5 data bus error
74		CIS module 6 error
74		CIS module 6 error
74		CIS module 6 error
74	E74 CAM DATA BUS CAMERA 6	Camera 6 data bus error
75		CIS module 7 error
75		CIS module 7 error
75		CIS module 7 error
75	E75 CAM DATA BUS CAMERA 7	Camera 7 data bus error
76		CIS module 8 error
76		CIS module 8 error
76		CIS module 8 error
76	E76 CAM DATA BUS CAMERA 8	Camera 8 data bus error
77	E77 NO IMAGE DATA	No image data

78	E78 CIS SYSTEM	General CIS sytem error
78	E78 CAMERA SYS	General camera system error
79		Touch Panel application error
79	General keyboard error	General keyboard error
80	E80 BAD LAMP CONFIG	Bad lamp config
81	E81 BAD DEVICE CONFIG	Bad device configuration
82	Bad scan background Please clear transport	Bad scan background
83	Scan background was changed	Scan background was changed
84	Rear device is not ready Please wait...	Rear device is not ready
85	Bad firmware combination Please update both devices	Bad firmware combination
86		Signal handler called
87		stitching: internal error
90	Buffer Overflow	Buffer Overflow
91	FATAL ERROR: local web server	thttpd terminated unexpected
95	Internal communication error	Internal communication error
97		Bad device configuration
98		Invalid parameter
99		Internal error
128	Book cradle not adjusted Move left BC downwards	Mechanical problem: Left Book cradle is not adjusted
129	Book cradle not adjusted Move right BC downwards	Mechanical problem: Right Book cradle is not adjusted
130	E130 Foot Pedal 1 SWITCH PERM.CLOSED	Foot Pedal 1: Switch permanently closed
130	WARNING: Foot Pedal 1: Switch permanently closed	Foot Pedal 1: Switch permanently closed
131	E131 Foot Pedal 2 SWITCH PERM.CLOSED	Foot Pedal 2: Switch permanently closed

131	WARNING: Foot Pedal 2: Switch permanently closed	Foot Pedal 2: Switch permanently closed
140	Motor controller overheated	Motor controller overheated
141	Overtemperature pre-warning	Overtemperature pre-warning
144		Light level is low
145	Camera adjustment required	Camera adjustment required
146	W146 LEFT LAMP BLOCKED	Left lamp blocked
147	W147 RIGHT LAMP BLOCKED	Right lamp blocked
148	Calibration Markers not found	Calibration Markers not found
150	Paper sensor	Paper sensor
150	Middle paper sensor	Middle paper sensor
151	Left paper sensor	Left paper sensor
152	Right paper sensor	Right paper sensor
160	WARNING 160: No white balance data test	No white balance data test
160	W160 NO WHITE BALANCE DATA test	No white balance data test
169	Warning 179:Adjustments required	Adjustments required
179	JPEG size limit exceeded	JPEG size limit exceeded
180		Deskew failed
181		Stitching2D: out of memory. Using fixed stitching
182	Ready to feed Please insert Document	Ready to feed
183	Document oversized (Out of Memory)	Document oversized (Out of Memory)
184	Failed to execute Auto Exposure (Memory ?)	Failed to execute Auto Exposure (Memory ?)
185	Failed to execute Adaptive Stitch (Memory ?)	Failed to execute Adaptive Stitch (Memory ?)
186	Failed to execute Crop/Deskew (Memory ?)	Failed to execute Crop/Deskew (Memory ?)
191		Bookfold failed

192		Bookfold failed
193		Bookfold failed
194	Crop failed (left edge!)	Crop failed (left edge!)
195	Crop failed (right edge!)	Crop failed (right edge!)
196	Crop failed (upper edge!)	Crop failed (upper edge!)
197	Crop failed (lower edge!)	Crop failed (lower edge!)
198	Crop failed (wide open!)	Crop failed (wide open!)
199	Crop failed (res2)	Crop failed (res2)
220	END SWITCH ERROR	Upper end switch error 220 Please contact support.
221	END SWITCH ERROR	Lower end switch error 221 Please contact support.
222	MOTOR INITIALIZATION ERROR	Upper motor initialization error 222 Please contact support.
223	MOTOR INITIALIZATION ERROR	Lower motor initialization error 223 Please contact support.
224	ALIGN BACKLIGHT ERROR1	ALIGN BACKLIGHT ERROR1,Align error 224 Please remove foil from unit and reboot.
225	MOTOR POSITION ERROR	MOTOR POSITION ERROR,Motor position error 225 Please reboot unit.
226	ENCODER ERROR	ENCODER ERROR,Upper part encoder error 226 Please contact support.
227	ENCODER ERROR	Lower part encoder error 227 Please contact support.
200	Creating Recovery Partition	Creating Recovery Partition
210	Missing/incompatible AddOn: PrintWizard LFP	Missing/incompatible AddOn: PrintWizard LFP
211	Missing/incompatible AddOn: PrintWizard SureColor	Missing/incompatible AddOn: PrintWizard SureColor
13		SNERR_NOSCAN

End of the document