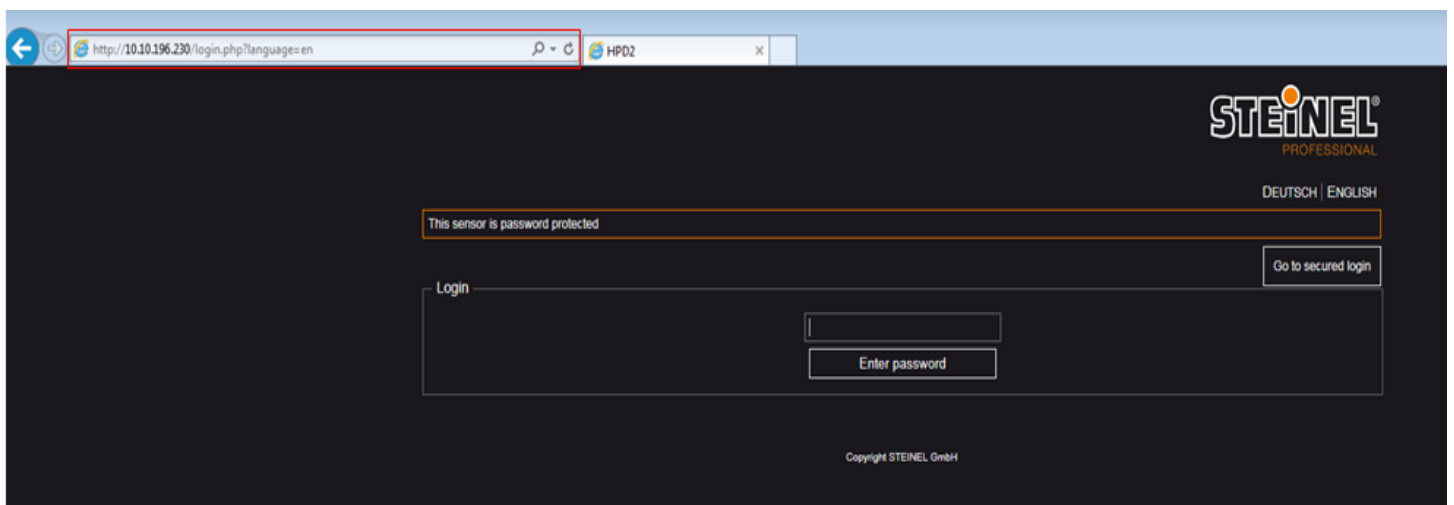


## Quick installation HPD2

### 1. Wiring

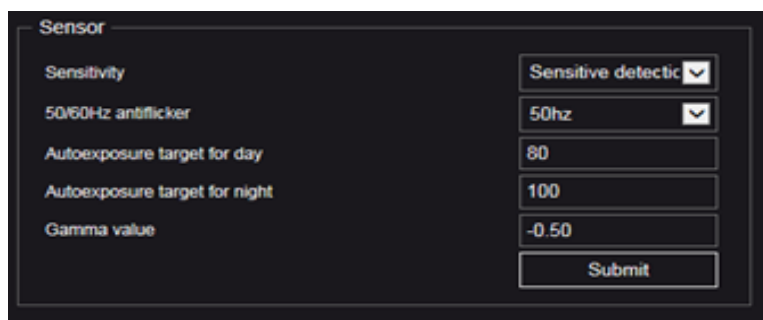
- Connect the Lan cable between the port of HPD2 and the POE switch (network)

### 2. Login



- Enter the IP address of the HPD 2 - 192.168.1.200 (it's shown in the manual)
- The password for the login is "adm123"

### 3. Settings



#### Sensitivity

Opportunity to change the sensitivity of the detection of people:

- Robust detection (safety)
- Sensitive detection (fast)
- Balanced detection

### 50/60Hz antiflicker

Change the frequency to the standard frequency of the power supply in the country (the camera sensor gets problems because of the flickering of the luminaires when you don't choose the right frequency)

### Autoexposure target for day

This value defines the target for the average light value of the picture provided by the camera chip which is used by the autoexposure algorithm during the day scenes (the IR LEDs off). The light value is in range 0 to 255.

### Autoexposure target for night

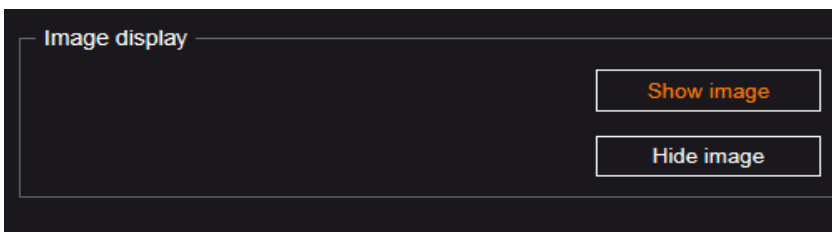
This value defines the target for the average light value of the picture provided by the camera chip which is used by the autoexposure algorithm during the night scenes (the IR LEDs on). The light value is in range 0 to 255.

### Gamma value

The value drives the gamma correction applied to the picture provided by the camera chip. Values below 0 provides higher amplification for the dark pixels than for the light pixels.

\*Gamma value and autoexposure target must be only changed when there are problems with contrast or brightness

### Image display



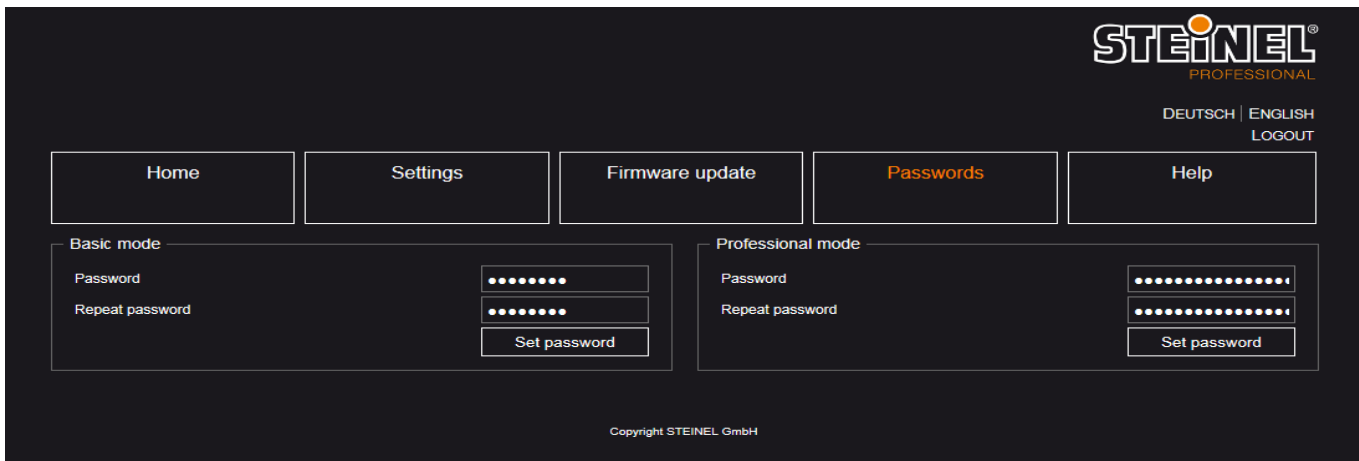
- Show image – allows showing image in Home Detail.
- Hide image – disables showing

## 4. Firmware Update



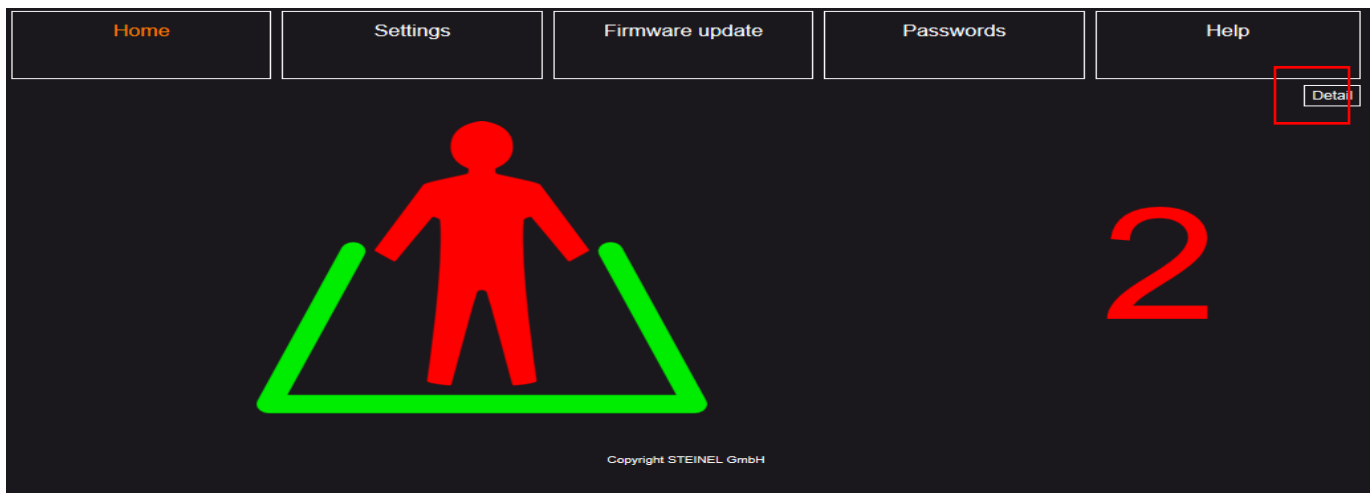
When there is a new firmware available, search for the new file and press „Update” button

## 5. Change password



Change the admin password directly after the first login to your own

## 6. Zoning



Press in the Home menu the “Detail” button

- Define detection zones (max. 5) and non detection zones (max. 3)
- Define windows and mirrors as non detection zones



## 7. Data Access

via

<http://hpd2-address/api/sensorstatus.php> & Admin password

Output in json-format:

```
{
  "AppVersion": "3.2.3",
  "FpgaVersion": "v300",
  "KnxSapNumber": "0",
  "KnxVersion": "0",
  "KnxAddr": "",
  "GitRevision": "d45734c2",
  "ModelName": "15_2xroute_fix26",
  "FrameProcessingTimeMs": 1179,
  "AverageFps5": 0.850314,
  "AverageFps50": 0.855873,
  "RunningTimeHHMMSS": "672:55:58",
  "UptimeHHMMSS": "672:56:35",
  "IrLedOn": 0,
  "DetectedPersons": 0,
  "PersonPresence": 0,
  "DetectedPersonsZone": [0, 0, 0, 0, 0],
  "PersonPresenceZone": [0, 0, 0, 0, 0],
  "DetectionZonesPresent": 0,
  "GlobalIlluminanceLux": 39.0,
  "LuxZone": [0.0, 0.0, 0.0, 0.0, 0.0],
  "GlobalLightValue": 72,
  "ArmsensorCpuUsage": "20",
  "WebServerCpuUsage": "2",
  "Temperature": "27.745661",
  "Humidity": "25.286158",
  "KnxDetected": "0",
  "KnxProgramMode": "0",
  "KnxLedState": "0",
  "final": "OK"
}
```

### 7.1 Comands in json-file

"AppVersion": "3.2.3"	current version of HPD application
"FpgaVersion": "v300"	version of FPGA binary, not valid anymore, it is versioned with AppVersion
"KnxSapNumber": "0"	SAP number of KNX firmware
"KnxVersion": "0"	KNX firmware version
"KnxAddr": ""	KNX address
"GitRevision": "d45734c2"	identificator of the version in git versioning system
"ModelName": "15_2xroute_fix26"	name of detection model
"FrameProcessingTimeMs": 1179	time in ms needed to process single frame
"AverageFps5": 0.850314	fps averaged through 5 frames
"AverageFps50": 0.855873	fps averaged through 50 frames
"RunningTimeHHMMSS": "672:55:58"	how long is the application running
"UptimeHHMMSS": "672:56:35"	time from last power up
"IrLedOn": 0	state of IR leds
"DetectedPersons": 0	number of detected persons
"PersonPresence": 0	1 if DetectedPersons > 0, else 0
"DetectedPersonsZone": [0, 0, 0, 0, 0]	number of detections in each zone
"PersonPresenceZone": [0, 0, 0, 0, 0]	1 if DetectedPersonsZone > 0, else 0 for each zone
"DetectionZonesPresent": 0	1 if any zone is defined, else 0
"GlobalIlluminanceLux": 39.0	luxes measured from whole picture or from zones union if
"LuxZone": [0.0, 0.0, 0.0, 0.0, 0.0]	luxes in each zone
"GlobalLightValue": 72	average brightness of picture (0-255)
"ArmsensorCpuUsage": "20"	cpu usage by main application
"WebServerCpuUsage": "2"	cpu usage by webserver
"Temperature": "27.745661"	measured temperature (°C)
"Humidity": "25.286158"	Humidity (%)
"KnxDetected": "0"	1 if KNX cpu was detected, else 0
"KnxProgramMode": "0"	1 if KNX is in programming mode, else 0
"KnxLedState": "0"	KNX request for LED blinking, there are several states with various periods
"final": "OK"	this is always at the end of our JSON message, needed for parsing