Security Tech Germany

IPCA22500 / IPCA32500 / IPCA52000 / IPCA62500 / IPCA62505 / IPCA72500 / IPCA72505

Version 10/2017

English translation of the original German user manual. Retain for future reference.

(UK) Introduction

Dear customer,

Thank you for purchasing this product.

IPCA22500
This device complies with the requirements of the following EU directives: the EMC Directive 2014/30/EU and the RoHS Directive 2011/65/EU. The full EU Declaration of Conformity text can be found at: www.abus.com/product/IPCA22500

IPCA32500
This device complies with the requirements of the following EU directives: the EMC Directive 2014/30/EU and the RoHS Directive 2011/65/EU. The full EU Declaration of Conformity text can be found at: www.abus.com/product/IPCA32500

IPCA52000
This device complies with the requirements of the following EU directives: the EMC Directive 2014/30/EU and the RoHS Directive 2011/65/EU. The full EU Declaration of Conformity text can be found at: www.abus.com/product/IPCA52000

IPCA62500
This device complies with the requirements of the following EU directives: the EMC Directive 2014/30/EU and the RoHS Directive 2011/65/EU. The full EU Declaration of Conformity text can be found at: www.abus.com/product/IPCA62500

IPCA62505
This device complies with the requirements of the following EU directives: the EMC Directive 2014/30/EU and the RoHS Directive 2011/65/EU. The full EU Declaration of Conformity text can be found at: www.abus.com/product/IPCA62505

IPCA72500
This device complies with the requirements of the following EU directives: the EMC Directive 2014/30/EU and the RoHS Directive 2011/65/EU. The full EU Declaration of Conformity text can be found at: www.abus.com/product/IPCA72500

IPCA72505
This device complies with the requirements of the following EU directives: the EMC Directive 2014/30/EU and the RoHS Directive 2011/65/EU. The full EU Declaration of Conformity text can be found at: www.abus.com/product/IPCA72505

To ensure this condition is maintained and that safe operation is guaranteed, it is your obligation to observe this user manual.

Read the entire user manual carefully before putting the product into operation, and pay attention to all operating instructions and safety information.

If you have any questions, please contact your specialist installation contractor or specialist dealer.

Disclaimer

This user manual has been produced with the greatest of care. Should you discover any missing information or inaccuracies, please let us know about them.
ABUS Security-Center GmbH & Co. KG does not accept any liability for technical and typographical errors, and reserves the right to make changes to the product and user manuals at any time and without prior warning.
ABUS Security-Center GmbH is not liable or responsible for any direct or indirect damage resulting from the installation, performance and use of this product. No forms of guarantee are accepted for the contents of this document.

Important safety information

All guarantee claims are invalid in the event of damage caused by non-compliance with this user manual. We cannot be held liable for resulting damage.

In the event of material or personal damage caused by improper operation or non-compliance with the safety information, we cannot be held liable. All guarantee claims are void in such cases.

Dear customer,
The following safety information and hazard notes are not only intended to protect your health but also to protect the device from damage. Please read the following points carefully:

- There are no components inside the product that require maintenance by the operator. Opening or dismantling the product invalidates the CE certification and guarantee claims/warranty.
- The product may be damaged if it is dropped, even from a low height.

Avoid the following adverse conditions during operation:

- Moisture or excess humidity
- Extreme heat or cold
- Direct sunlight
- Dust or flammable gases, vapours or solvents
- Strong vibrations
- Strong magnetic fields (e.g. next to machines or loudspeakers)
- The camera must not be installed on unstable surfaces.

General safety information:

- Do not leave packaging material lying around. Plastic bags, sheeting, polystyrene packaging, etc. can pose a danger to children if played with.
- The video surveillance camera contains small parts which could be swallowed and should be kept out of reach of children for safety reasons.
- Do not insert any objects into the device through the openings.
- Only use replacement devices and accessories that are approved by the manufacturer. Do not connect any non-compatible products.
- Please pay attention to the safety information and user manuals for the other connected devices.
- Check the device for damage before putting it into operation. Do not put the device into operation if you detect any damage.
- Adhere to the operating voltage limits specified in the technical data. Higher voltages could destroy the device and pose a health risk (electric shock).

When installing the device in an existing video surveillance system, ensure that all devices have been disconnected from the mains power circuit and low-voltage circuit.

If in doubt, have a specialist technician carry out assembly, installation and connection of the device. Improper or unprofessional work on the power supply system or domestic installation puts both you and other persons at risk.
Connect the installations so that the mains power circuit and low-voltage circuit always run separately
from each other. They should not be connected at any point or become connected as a result of a malfunction.

Contents

1. Intended use

This camera is used for indoor and outdoor video surveillance (depending on the model) in conjunction with a recording device or appropriate display unit (e.g. PC).

Use of this product for any other purpose than that described may lead to damage to the product and other hazards. All other uses are not as intended and will result in the invalidation of the product guarantee and warranty. No liability can be accepted as a result. This also applies to any alterations or modifications made to the product.
Read the user guide carefully and in full
before putting the product into operation. The user guide contains
important information on installation and operation.

2. Explanation of symbols

The triangular high voltage symbol is used to warn of the risk of injury or health hazards (e.g. caused by electric shock).

The triangular warning symbol indicates important notes in this user manual which must be observed.

This symbol indicates special tips and notes on the operation of the unit.

3. Scope of delivery

	IPCA22500	IPCA32500	IPCA52000	IPCA6250X	IPCA72500
IP camera	√	√	√	√	√
Quick start guide	√	√	√	√	√
General safety instructions	√	√	√	√	√
Hexagonal socket key (without pin)	√	-	-	√	-
Hexagonal socket key (with pin)	-	√	-	-	√
Reset tool	√	√	√	√	√
Software CD (ABUS, IP installer)	√	√	√	√	√
Clamp for cable attachment	-	√	-	-	√
Cable gland M25	-	-	-	-	√
Cable for analogue video output (BNC)	-	√	-	-	√
Desiccant bag	-	-	-	-	√
Rubber plate for installation	-	-	-	√ (pre-installed)	√ (separate)

	IPCA72505

IP camera	√
Quick start guide	√
General safety instructions	√
Hexagonal socket key (without pin)	-
Hexagonal socket key (with pin)	√
Reset tool	√
Software CD (ABUS, IP installer)	√
Clamp for cable attachment	√
Cable gland M25	√
Cable for analogue video output (BNC)	√
Desiccant bag	√
Rubber plate for installation	√ (separate)

	You can download a PDF version of the user guide in your language at www.abus.com via the product search.

4. Features and functions

- Full HD 1080p resolution: 1920 x 1080 @ 25 fps
- Sony Xarina DSP and Sony Exmore image sensor
- Tamron Motor Vario lens 3–9 mm (IPCA22500, IPCA32500, IPCA62500, IPCA72500) or 9–22 mm (IPCA62505) or 5–50 mm (IPCA72505)
- 16 GB internal memory for recording in the event of a power failure
- Day/night switching with electromechanical IR blocking filter (ICR)
- IR LEDs with variable intensity (IPCA22500, IPCA32500, IPCA62500, IPCA62505, IPCA72500 only)
- WDR function to compensate for high image contrasts
- Power over Ethernet (PoE)
- ONVIF-compatible

5. Device description

5.1 Overview – Model numbers

Model number	IPCA22500	IPCA32500	IPCA52000	IPCA62505	IPCA72500
Resolution	1080p	1080p	1080p	1080p	1080p
DWDR/WDR	WDR, 120 dB	WDR, 120 dB	WDR, 120 dB	WDR, 120 dB	WDR, 120 dB
2D DNR/3D DNR	√	√	√	√	√
Lens	Motor zoom, 3–9 mm	Motor zoom, 3–9 mm	-	Motor zoom, 9–22 mm	Motor zoom, 3–9 mm
Operating voltage	12 V DC	12 V DC	12 V DC	12 V DC	12 V DC
PoE	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af

Model number	IPCA62500	IPCA72505
Resolution	1080p	1080p
DWDR/WDR	WDR, 120 dB	WDR, 120 dB
2D DNR/3D DNR	√	√
Lens	Motor zoom, 3–9 mm	Motor zoom, 5–50 mm
Operating voltage	12 V DC	12 V DC
PoE	IEEE 802.3af	IEEE 802.3af

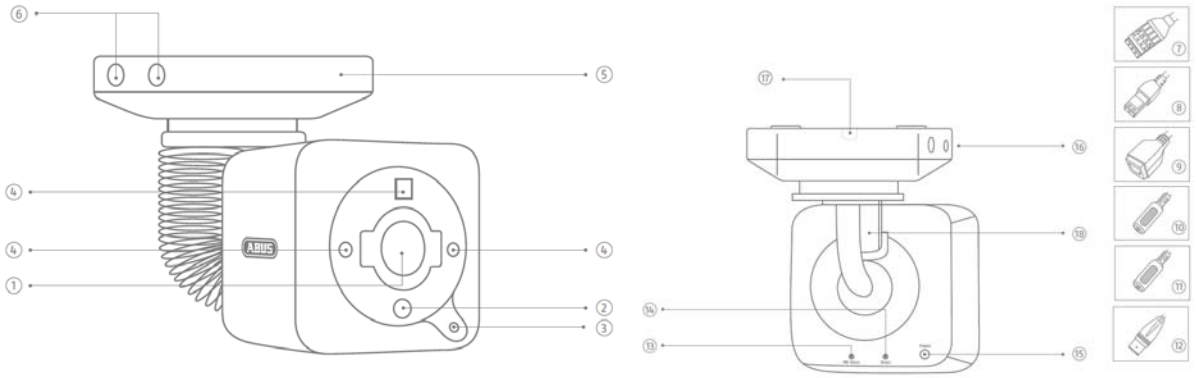
5.2 Unpacking the device

Handle the device with extreme care when unpacking it.

If the original packaging has been damaged, inspect the device first. If the device shows signs of damage, return it in the original packaging and inform the delivery service.

5.3 Overview of connections, control elements, front/back

IPCA22500



(DE)

1. Objektiv
2. Lichtsensor
3. Mikrofon
4. IR LED
5. Bodenplatte
6. Sicherheitsschrauben
7. Alarmein- und ausgang
8. Spannungsversorgung 12V
9. RJ45 Anschluss, PoE fähig

(GB)

1. Lens
2. Photo sensor
3. Microphone
4. IR LEDs
5. Base plate
6. Safety screws
7. Alarm input and output
8. Power supply 12V
9. RJ45 connection, PoE capable

(FR)

1. Objectif
2. Photodétecteur
3. Microphone
4. LED IR
5. Socle
6. Vis de sécurité
7. Entrée et sortie d'alarme
8. Alimentation électrique 12V
9. Connexion RJ45, compatible PoE

(NL)

1. Objectief
2. Lichtsensor
3. Microfoon
4. IR-LED's
5. Bodemplaat
6. Veiligheidsschroeven
7. Alarmin- en uitgang
8. Stroomvoorziening 12V
9. RJ45-aansluiting, PoE compatibel

(DK)

1. Objektiv
2. Lyssensor
3. Mikrofon
4. IR-LED'er
5. Bundplade
6. Sikkerhedsskruer
7. Alarmind- og -udgang
8. Spændingsforsyning 12V
9. RJ45-tilslutning, PoE egnet

(SE)

1. Objektiv
2. Ljussensor
3. Mikrofon
4. IR-lysdioder
5. Golvplatta
6. Säkerhetsskruvar
7. Larmingang och – utgang
8. Zasilanie napięciowe
9. RJ45-anslutning, PoE kompatibelg

(PL)

1. Obiektyw
2. Czujnik światła
3. Mikrofon
4. Diody IR LED
5. Podstawa
6. Śruby zabezpieczające
7. Wejście i wyjście alarmu
8. Napięcie zasilające 12V
9. Złącze RJ45, możliwość zastosowania z PoE

(IT)

1. Obiettivo
2. Fotosensore
3. Microfono
4. LED IR
5. Piastra di base
6. Viti di sicurezza
7. Ingresso e uscita di allarme
8. Alimentazione di tensione 12 V
9. Connettore RJ45, compatibile con PoE

(ES)

1. Objetivo
2. Fotocélula
3. Micrófono
4. LED de infrarrojos
5. Base
6. Tornillos de seguridad
7. Entrada y salida de alarma
8. Alimentación de tensión 12V
9. Conexión RJ45, apta para PoE

(RU)

1. Объектив
2. Датчик света
3. Микрофон
4. ИК-светодиоды
5. Опорная плита
6. Стопорные винты
7. Вход и выход сигнала тревоги
8. Электропитание 12 В
9. Разъем RJ45, с поддержкой PoE

(DE)

10. Audioeingang
11. Audioausgang
12. Analoger Videoausgang für Servicezwecke
13. Passwort Reset
14. Reset Taste
15. Status LED für Spannungsversorgung
16. Sicherheitsschrauben
17. Ausbruchstelle, falls seitliche Kabelführung gewünscht
18. 3-Achsen-Halterung

(GB)

10. Audio input
11. Audio output
12. Analogue video output for service
13. Password reset
14. Reset button
15. Power LED
16. Safety screws
17. Breakout point, if lateral cable routing is desired
18. 3-axle mount

(FR)

10. Entrée audio
11. Sortie audio
12. Sortie vidéo analogique à des fins de maintenance
13. Réinitialisation mot de passe
14. Touche Reset
15. LED d'alimentation
16. Vis de sécurité
17. Point de passage en cas de câblage latéral
18. Support 3 axes

(NL)

10. Audiongang
11. Audiouitgang
12. Analoge video-uitgang voor servicedoeleinden
13. Wachtwoord reset
14. Reset-toets
15. Power-LED
16. Veiligheidsschroeven
17. Breukpunt, indien zijdelingse kabelgeleiding gewenst
18. 3-assige houder

(DK)

10. Audioindgang
11. Audioudgang
12. Analog videoudgang til serviceformål
13. Kodeordet-reset
14. Reset-tast
15. Power LED
16. Sikkerhedsskruer
17. Gennemføringssted, hvis der ønsker kabelføring i siden
18. Holder med 3 akser

(SE)

10. Audioingång
11. Audioutgång
12. En andra videoutgång för kamera anordning
13. Lösenord-reset
14. Reset-knapp
15. LED zasilania
16. Säkerhetsskruvar
17. Utbrottsställe om kabelstyrning behövs på sidan
18. Hållare med 3 axlar

(PL)

10. Wejścia audio
11. Wyjście audio
12. Analogowe wyjście wideo do celów serwisowych
13. Hasło-reset
14. Przycisk Reset
15. LED zasilania
16. Śruby zabezpieczające
17. Maskownica wyłamywalna, jeśli kabel ma być prowadzony z boku
18. 3-osiowy uchwyt

(IT)

10. Uscita audio
11. Ingresso audio
12. Uscita video analogica per operazioni di manutenzione
13. Password-reset
14. Tasto reset
15. LED Power
16. Viti di sicurezza
17. Punto di rottura, per un'eventuale passaggio laterale dei cavi
18. Supporto a 3 assi

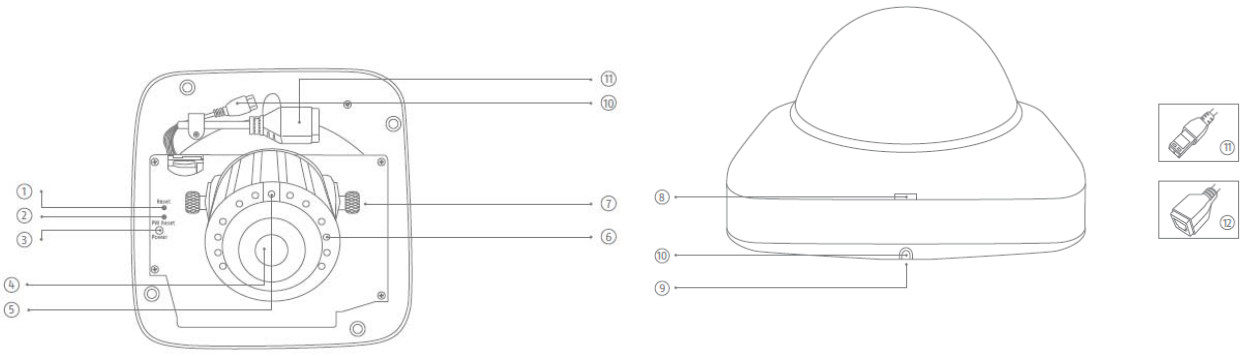
(ES)

10. Entrada de audio
11. Salida de audio
12. Salida de vídeo analógica para fines de mantenimiento
13. Reset alimentación
14. Contraseña-reset
15. LED de alimentación
16. Tornillos de seguridad
17. Punto de rotura si se desea un tendido lateral de los cables
18. Soporte triaxial

(RU)

10. звуковой вход
11. звуковой выход
12. Аналоговый видеовыход для сервисного обслуживания
13. Сброс пароля
14. пароль-перезагрузки
15. Светодиод питания
16. Стопорные винты
17. Место выламывания, если требуется боковая прокладка кабеля
18. 3-осевой кронштейн для крепления

IPCA32500



(DE)
1. Reset Taste
2. Passwort Reset Taste
3. Status LED für Spannungsversorgung 12 V
4. Objektiv
5. Lichtsensor
6. IR LED
7. Fixierschrauben für Kameramodul

(GB)
1. Reset button
2. Password reset
3. Status LED for 12 V power supply
4. Lens
5. Photo sensor
6. IR LEDs
7. Fixing screws for camera module

(FR)
1. Touche reset
2. Réinitialisation de mot de passe
3. LED d'état pour l'alimentation électrique 12 V
4. Objectif
5. Photodétecteur
6. LED IR
7. Vis de fixation pour le module de caméra

(NL)
1. Resetknop
2. Wachtwoord reset
3. Status-LED voor de stroomvoorziening 12 V
4. Objectief
5. Lichtsensor
6. IR-LED's
7. Fixeerschroeven voor cameramodule

(DK)
1. Reset-tast
2. Reset af kodeord
3. Status-LED til 12-V-spændingsforsyning
4. Objektiv
5. Lyssensor
6. IR-LED'er
7. Fastgørelsesskruer til kameramodul

(SE)
1. Återställningsknapp
2. Lösenordsåterställning
3. Status-LED för spänningsförsörjning 12 V
4. Objektiv
5. Ljussensor
6. IR-lysdioder
7. Fästskruvar för kameramodul

(PL)
1. Przycisk resetowania
2. Reset hasła
3. Dioda LED zasilania 12 V
4. Obiektyw
5. Czujnik światła
6. Diody IR LED
7. Śruby mocujące do modułu kamery

(IT)
1. Tasto reset
2. Reset password
3. LED di stato per alimentazione di tensione 12 V
4. Obiettivo
5. Fotosensore
6. LED IR
7. Viti di fissaggio per modulo per videocamera

(ES)
1. Tecla Reset
2. Restablecimiento de contraseña
3. LED de estado para la alimentación de tensión de 12 V
4. Objetivo
5. Fotocelda
6. LED de infrarrojos
7. Tornillos de fijación para el módulo de cámara

(DE)
8. Aussparung um Abdeckung zu lösen
9. Aussparung verdeckte Kabelführung
10. Ausbruchstelle, falls seitliche Kabelführung gewünscht
11. Spannungsversorgung 12 V
12. RJ45 Anschluss, PoE fähig

(GB)
8. Recess for removing the cover
9. Recess for concealed cable routing
10. Breakout point, if lateral cable routing is desired
11. 12 V power supply
12. RJ45 connection, PoE capable

(FR)
8. Encoche pour retirer le cache
9. Niche câblage caché
10. Point de passage en cas de câblage latéral
11. Alimentation électrique 12 V
12. Connexion RJ45, compatible PoE

(NL)
8. Uitsparing om afdekking los te maken
9. Uitsparing verborgen kabeldoorvoer
10. Breukpunt, indien zijdelingse kabelgeleiding gewenst
11. Stroomvoorziening 12 V
12. RJ45-aansluiting, PoE compatibel

(DK)
8. Udfræsning til at løsne afdækningen
9. Udfræsning til skjult kabelføring
10. Gennemføringssted, hvis der ønsker kabelføring i siden
11. Spændingsforsyning 12 V
12. RJ45-tilslutning, PoE-egnet

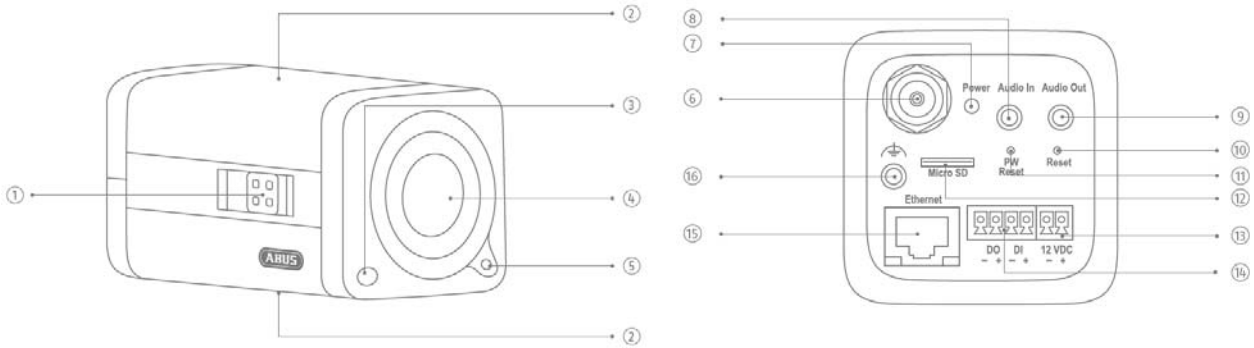
(SE)
8. Urtag för att lossa kåpa
9. Urtag, dold kabeldragning
10. Utbrottsställe om kabelstyrning behövs på sidan
11. Spänningsförsörjning 12 V
12. RJ45-anslutning, PoE-kompatibel

(PL)
8. Luka na poluzowanie pokrywy
9. Luka w celu ukrytego prowadzenia kabli
10. Maskownica wyłamywalna, jeśli kabel ma być prowadzony z boku
11. Napięcie zasilające 12 V
12. Złącze RJ45, możliwość zastosowania z PoE

(IT)
8. Rientranza per sbloccare la copertura
9. Foro per cablaggio nascosto
10. Punto di rottura, per un'eventuale passaggio laterale dei cavi
11. Alimentazione di tensione 12 V
12. Connettore RJ45, compatibile con PoE

(ES)
8. Orificio para soltar la cubierta
9. Orificio para el tendido de cables oculto
10. Punto de rotura si se desea un tendido lateral de los cables
11. Alimentación de tensión 12 V
12. Conexión RJ45, apta para PoE

IPCA52000



(DE)

1. Objektiv-Anschluss
2. ¼'' Zoll Gewinde auf Ober- und Unterseite
3. Status LED
4. Objektiv-Sockel (CS-Mount)
5. Lichtsensor

(GB)

1. Lens connection
2. ¼ inch thread on top and bottom sides
3. Status LED
4. Lens base (CS mount)
5. Photo sensor

(FR)

1. Raccordement d'objectif
2. Filetage ¼" sur la partie supérieure et inférieure
3. LED d'état
4. Culot d'objectif (CS mount)
5. Photodétecteur

(NL)

1. Objectief-aansluiting
2. ¼'' inch schroefdraad aan bovenen onderzijde
3. Status-LED
4. Objectiefadapter (CS-mount)
5. Lichtsensor

(DK)

1. Objektiv tilslutning
2. ¼-tommes gevind på over- og underside
3. Status-LED
4. Objektiv-sokkel (CS-Mount)
5. Lyssensor

(SE)

1. Objektivanslutning
2. ¼-tumgänga på ovan- och undersida
3. Statuslysdiod
4. Objektivsockel (CS-gänga)
5. Ljussensor

(PL)

1. Złącze obiektywu
2. Gwint ¼ cala na spodzie lub na wierzchu
3. Dioda LED stanu
4. Gniazdo obiektywu (CS-Mount)
5. Czujnik światła

(IT)

1. Collegamento obiettivo
2. Filettatura da ¼" su lato superiore e inferiore
3. LED di stato
4. Base obiettivo (supporto CS)
5. Fotosensore

(ES)

1. Conexión del objetivo
2. Rosca de ¼'' en la parte superior y la parte inferior
3. LED de estado
4. Zócalo del objetivo (soporte CS)
5. Fotocelda

(RU)

1. Крепление объектива
2. ''-дюймовая резьба сверху и снизу
3. Светодиод состояния
4. Основание объектива (крепление резьбой CS-Mount)
5. Световой датчик

(DE)

6. Analoger Videoausgang für Servicezwecke
7. Status LED für Spannungsversorgung 12 V
8. Audioeingang
9. Audioausgang
10. Reset Taste
11. Passwort Reset Taste
12. Micro SD Karten Slot
13. Spannungsversorgung 12 V
14. Alarmein- und -ausgang
15. RJ45 Anschluss, PoE fähig
16. Masseanschluss

(GB)

6. Analogue video output for service
7. Status LED for 12 V power supply
8. Audio input
9. Audio output
10. Reset button
11. Password reset
12. Micro SD card slot
13. 12 V power supply
14. Alarm input and output
15. RJ45 connection, PoE capable
16. Earth connection

(FR)

6. Sortie vidéo analogique à des fins de maintenance
7. LED d'état pour l'alimentation électrique 12 V
8. Entrée audio
9. Sortie audio
10. Touche reset
11. Réinitialisation de mot de passe
12. Fente pour carte micro SD
13. Alimentation électrique 12 V
14. Entrée et sortie d'alarme
15. Connexion RJ45, compatible PoE
16. Raccordement à la masse

(NL)

6. Analoge video-uitgang voor servicedoeleinden
7. Status-LED voor de stroomvoorziening 12 V
8. Audioingang
9. Audiouitgang
10. Resetknop
11. Wachtwoord reset
12. Gleuf microSD-kaart
13. Stroomvoorziening 12 V
14. Alarm in- en uitgang
15. RJ45-aansluiting, PoE compatibel
16. Massa-aansluiting

(DK)

6. Analog videoudgang til serviceformål
7. Status-LED til 12-V-spændingsforsyning
8. Audioindgang
9. Audioudgang
10. Reset-tast
11. Reset af kodeord
12. MicroSD-kort-slot
13. Spændingsforsyning 12 V
14. Alarmindgang og -udgang
15. RJ45-tilslutning, PoE-egnet
16. Stelforbindelse

(SE)

6. En andra videoutgång för kamera anordning
7. Status-LED för spänningsförsörjning 12 V
8. Audioingång
9. Audioutgång
10. Återställningsknapp
11. Lösenordsåterställning
12. Uttag, MicroSD-kort
13. Spänningsförsörjning 12 V
14. Larmingång och -utgång
15. RJ45-anslutning, PoE-kompatibel
16. Jordanslutning

(PL)

6. Analogowe wyjście wideo do celów serwisowych
7. Dioda LED zasilania 12 V
8. Wejścia audio
9. Wyjście audio
10. Przycisk resetowania
11. Reset hasła
12. Gniazdo kart MicroSD
13. Napięcie zasilające 12 V
14. Wejście i wyjście alarmu
15. Złącze RJ45, możliwość zastosowania z PoE
16. Przewód do masy

(IT)

6. Uscita video analogica per operazioni di manutenzione
7. LED di stato per alimentazione di tensione 12 V
8. Uscita audio
9. Ingresso audio
10. Tasto reset
11. Reset password
12. Slot per schede microSD
13. Alimentazione di tensione 12 V
14. Ingresso e uscita allarme
15. Connettore RJ45, compatibile con PoE
16. Collegamento a massa

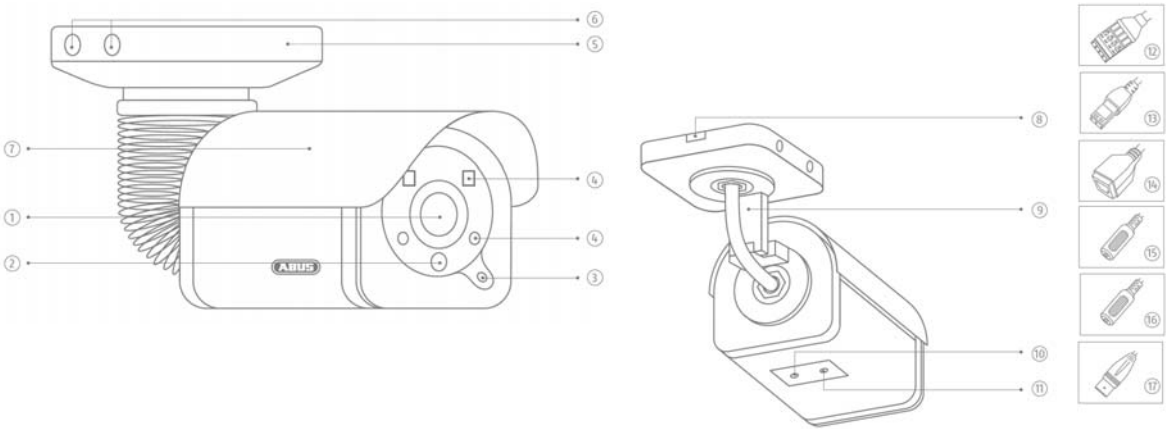
(ES)

6. Salida de vídeo analógica para fines de mantenimiento
7. LED de estado para la alimentación de tensión de 12 V
8. Entrada de audio
9. Salida de audio
10. Tecla Reset
11. Restablecimiento de contraseña
12. Ranura para tarjetas micro SD
13. Alimentación de tensión 12 V
14. Entrada y salida de alarma
15. Conexión RJ45, apta para PoE
16. Conexión a tierra

(RU)

6. Аналоговый видеовыход для сервисного обслуживания
7. Светодиод состояния дляэлектропитания 12 В
8. звуковой вход
9. звуковой выход
10. Кнопка сброса
11. Сброс пароля
12. Слот для карты MicroSD
13. Электропитание 12 В
14. Вход и выход сигналов тревоги
15. Разъем RJ45, с поддержкой PoE
16. Заземление

IPCA6250X



(DE)

1. Objektiv
2. Lichtsenor
3. Status LED
4. IR LED
5. Bodenplatte
6. Sicherheitsschrauben
7. Sonnendach

(GB)

1. Lens
2. Photo sensor
3. Status LED
4. IR LEDs
5. Base plate
6. Safety screws
7. Sun shield

(FR)

1. Objectif
2. Photodétecteur
3. LED d'état
4. LED IR
5. Socle
6. Vis de sécurité
7. Pare-soleil

(NL)

1. Objectief
2. Lichtsensor
3. Status-LED
4. IR-LED's
5. Bodemplaat
6. Veiligheidsschroeven
7. Zonnekap

(DK)

1. Objektiv
2. Lyssensor
3. Status LED
4. IR-LED'er
5. Bundplade
6. Sikkerhedsskruer
7. Solskærm

(SE)

1. Objektiv
2. Ljussensor
3. Statuslysdiod
4. IR-lysdioder
5. Golvplatta
6. Säkerhetsskruvar
7. Soltak

(PL)

1. Obiektyw
2. Czujnik światła
3. Dioda LED stanu
4. Diody IR LED
5. Podstawa
6. Śruby zabezpieczające
7. Daszek przeciwsłoneczny

(IT)

1. Obiettivo
2. Fotosensore
3. LED di stato
4. LED IR
5. Piastra di base
6. Viti di sicurezza
7. Aletta parasole

(ES)

1. Objetivo
2. Fotocelda
3. LED de estado
4. LED de infrarrojos
5. Base
6. Tornillos de seguridad
7. Techo parasol

(RU)

1. Объектив
2. Световой датчик
3. Светодиод состояния
4. ИК-светодиоды
5. Опорная плита
6. Стопорные винты
7. Козырек от солнца

(DE)

8. Ausbruchstelle, falls seitliche Kabelführung gewünscht
9. 3-Achsenhalterung
10. Passwort Reset Taste
11. Reset Taste
12. Alarmein- und -ausgang
13. Spannungsversorgung 12 VDC
14. RJ45 Anschluss, PoE fähig
15. Audioeingang
16. Audioausgang
17. Analoger Videoausgang für Servicezwecke

(GB)

8. Breakout point, if lateral cable routing is desired
9. 3-axle mount
10. Password reset
11. Reset button
12. Alarm input and output
13. Power supply 12 VDC
14. RJ45 connection, PoE capable
15. Audio input
16. Audio output
17. Analogue video output for service

(FR)

8. Point de passage en cas de câblage latéral
9. Support 3 axes
10. Réinitialisation de mot de passe
11. Touche Reset
12. Entrée et sortie d'alarme
13. Alimentation électrique 12 VDC
14. Connexion RJ45, compatible PoE
15. Entrée audio
16. Sortie audio
17. Sortie vidéo analogique à des fins de maintenance

(NL)

8. Uitbreekschot voor zijdelingse zijdelingse kabeldoorvoer
9. 3-assige houder
10. Wachtwoord reset
11. Resetknop
12. Alarm in- en uitgang
13. Stroomvoorziening 12 VDC
14. RJ45-aansluiting, PoE compatibel
15. Audiongang
16. Audiouitgang
17. Analoge video-uitgang voor servicedoeleinden

(DK)

8. Gennemføringssted, hvis der ønsker kabelføring i siden
9. Holder med 3 akser
10. Reset af kodeord
11. Reset-tast
12. Alarmindgang og -udgang
13. Spændingsforsyning 12 VDC
14. RJ45-tilslutning, PoE egnet
15. Audioindgang
16. Audioudgang
17. Analog videoudgang til serviceformål

(SE)

8. Utbrottsställe om kabelstyrning behövs på sidan
9. Hållare med 3 axlar
10. Lösenordsåterställning
11. Återställningsknapp
12. Larmingang och –utgang
13. Spänningsförsörjning 12 VDC
14. RJ45-anslutning, PoE kompatibel
15. Audioingång
16. Audioutgång
17. En andra videoutgång för kamera anordning

(PL)

8. Maskownica wyłamywalna, jeśli kabel ma być prowadzony z boku
10. Reset hasła
11. Przycisk resetowania
12. Wejście i wyjście alarmu
13. Napięcie zasilające 12 VDC
14. Złącze RJ45, możliwość zastosowania z PoE
15. Wejścia audio
16. Wyjście audio
17. Analogowe wyjście wideo do celów serwisowych

(IT)

8. Punto di rottura, per un'eventuale passaggio laterale dei cavi
9. Supporto a 3 assi
10. Reset password
11. Tasto reset
12. Ingresso e uscita allarme
13. Alimentazione di tensione 12 VDC
14. Connettore RJ45, compatibile con PoE
15. Uscita audio
16. Ingresso audio
17. Uscita video analogica per operazioni di manutenzione

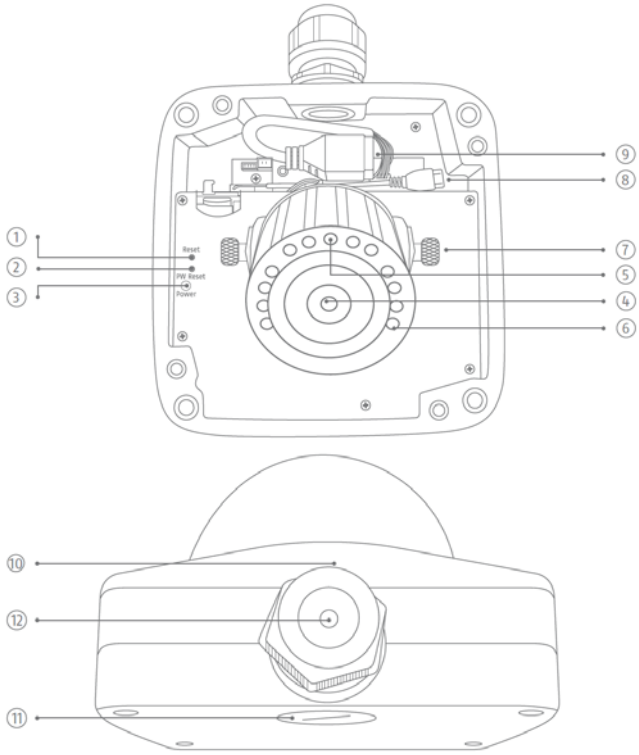
(ES)

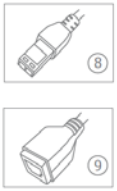
8. Punto de rotura si se desea un tendido lateral de los cables
9. Soporte triaxial
10. Restablecimiento de contraseña
11. Tecla Reset
12. Entrada y salida de alarma
13. Alimentación de tensión 12 VDC
14. Conexión RJ45, apta para PoE
15. Entrada de audio
16. Salida de audio
17. Salida de vídeo analógica para

(RU)

8. Место выпамывания, если требуется боковая прокладка кабеля
9. 3-осевой кронштейн для крепления
10. Сброс пароля
11. Кнопка сброса
12. Вход и выход сигнала тревоги
13. Электропитание 12 Вольт
14. Порт RJ45, способен PoE
15. звуковой вход
16. звуковой выход
17. Аналоговый видеовыход для сервисного обслуживания

IPCA72500 / IPCA72505





DE
1. Reset Taste
2. Passwort Reset Taste
3. Status LED für Spannungsversorgung 12 V
4. Objektiv
5. Lichtsensor
6. IR LED
7. Fixierschrauben für Kameramodul

GB
1. Reset button
2. Password reset
3. Status LED for 12 V power supply
4. Lens
5. Photo sensor
6. IR LEDs
7. Fixing screws for camera module

FR
1. Touche reset
2. Réinitialisation de mot de passe
3. LED d'état pour l'alimentation électrique 12 V
4. Objectif
5. Photodétecteur
6. LED IR
7. Vis de fixation pour le module de caméra

NL
1. Resetknop
2. Wachtwoord reset
3. Status-LED voor de stroomvoorziening 12 V
4. Objectief
5. Lichtsensor
6. IR-LED's
7. Fixeerschroeven voor cameramodule

DK
1. Reset-tast
2. Reset af kodeord
3. Status-LED til 12-V-spændingsforsyning
4. Objektiv
5. Lyssensor
6. IR-LED'er
7. Fastgørelsesskruer til kameramodul

SE
1. Återställningsknapp
2. Lösenordsåterställning
3. Status-LED för spänningsförsörjning 12 V
4. Objektiv
5. Ljussensor
6. IR-lysdioder
7. Fästskruvar för kameramodul

PL
1. Przycisk resetowania
2. Reset hasła
3. Dioda LED zasilania 12 V
4. Obiektyw
5. Czujnik światła
6. Diody IR LED
7. Śruby mocujące do modułu kamery

IT
1. Tasto reset
2. Reset password
3. LED di stato per alimentazione di tensione 12 V
4. Obiettivo
5. Fotosensore
6. LED IR
7. Viti di fissaggio per modulo per videocamera

ES
1. Tecla Reset
2. Restablecimiento de contraseña
3. LED de estado para la alimentación de tensión de 12 V
4. Objetivo
5. Fotocelda
6. LED de infrarrojos
7. Tornillos de fijación para el módulo de cámara

(DE)

8. Spannungsversorgung 12 V
9. RJ45 Anschluss, PoE fähig
10. Aussparung um Abdeckung zu lösen
11. Aussparung Verdeckte Kabelführung
12. PG-Verschraubung M25 für seitliche Kabelführung

(GB)

8. 12 V power supply
9. RJ45 connection, PoE capable
10. Recess for removing the cover
11. Recess for concealed cable routing
12. PG screw connection M25 for lateral cable routing

(FR)

8. Alimentation électrique 12 V
9. Connexion RJ45, compatible PoE
10. Encoche pour retirer le cache
11. Niche câblage caché
12. Vis PG M25 pour passage latéral du câblage

(NL)

7. Stroomvoorziening 12 V
8. RJ45-aansluiting, PoE compatibel
9. Uitsparing om afdekking los te maken
10. Uitsparing verborgen kabeldoorvoer
11. PG-schroefverbinding M25 voor kabeldoorvoer aan zijkant

(DK)

8. Spændingsforsyning 12 V
9. RJ45-tilslutning, PoE-egnet
10. Udfræsning til at løsne afdækningen
11. Udfræsning til skjult kabelføring
12. PG-forskruning M25 til kabelføring i siden

(SE)

8. Spänningsförsörjning 12 V
9. RJ45-anslutning, PoE-kompatibel
10. Urtag för att lossa kåpa
11. Urtag, dold kabeldragning
12. PG-förskruvning M25 för kabeldragning på sidan

(PL)

8. Napięcie zasilające 12 V
9. Złącze RJ45, możliwość zastosowania z PoE
10. Luka na poluzowanie pokrywy
11. Luka w celu ukrytego prowadzenia kabli
12. Złącze śrubowe PG M25 w celu bocznego poprowadzenia kabli

(IT)

8. Alimentazione di tensione 12 V
9. Connettore RJ45, compatibile con PoE
10. Rientranza per sbloccare la copertura
11. Foro per cablaggio nascosto
12. Passacavo PG M25 per cablaggio laterale

(ES)

8. Alimentación de tensión 12 V
9. Conexión RJ45, apta para PoE
10. Orificio para soltar la cubierta
11. Orificio para el tendido de cables oculto
12. Conexión roscada PG M25 para un tendido de cables lateral

6. Installation

Instructions for how to mount the camera are described in the quickstart guide for the relevant IP camera IPCAXXXX.

	When mounting the dome camera IPCA72500 please make sure that the desiccant bag supplied is placed inside the camera before placing on the dome. The bag must be placed close to the base plate. The bag must not be in the field of view of the lens. The bag must not be placed directly behind the lens or the camera board.

6.2 Laying the cables

You must pay attention to the following instructions when laying the cables:

IPCA22500

A break-out panel for feeding the cable is located on the base plate for laying the cables at the side. Use pliers to remove the break-out panel. Use a file to smooth out the edges of the break-out panel.

IPCA32500

A break-out panel for feeding the cable is provided for laying the cables at the side. Use a flat, narrow screwdriver to remove the break-out panel from the plastic.

	These cameras are equipped ex works with a short connecting cable for networking (RJ45), power supply (barrel connector) and analogue video output. Making the connection is possible from inside the camera. In the most simple case, a network cable with Power over Ethernet power supply is all that's needed to operate the camera. If the functions switching input, switching output or audio input/output are needed, you must install an extended connecting cable (TVAC40720).

IPCA52000

When laying the cable, ensure that none of the plug connections is subject to mechanical tension. Furthermore, cables must be fixed in such a way as to prevent the plug from being bent or snapped off.

IPCA62500 / IPCA62505

A break-out panel for feeding the cable is located on the base plate for laying the cables at the side. Use pliers to remove the break-out panel. Use a file to smooth out the edges of the break-out panel.

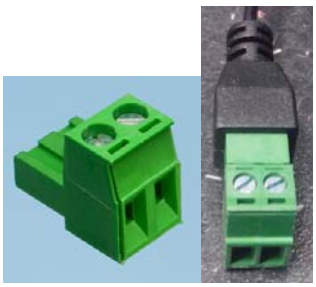
IPCA72500 / IPCA72505

For this type of camera, the cable is intended to be laid at the side or concealed. There are openings at the side and on the base for this. The unused opening is sealed using a blind plug. For installation the supplied cable gland must be used (for the side and base) in accordance with protection class IP66. When using the optional wall bracket (TVAC31310), the cable gland may be omitted, as the wall bracket panel and dome camera have been manufactured to fit together tightly.

⚠	These cameras are equipped ex works with a short connecting cable for networking (RJ45), power supply (barrel connector) and analogue video output. Making the connection is possible from inside the camera. In the most simple case, a network cable with Power over Ethernet power supply is all that's needed to operate the camera. If the functions switching input, switching output or audio input/output are needed, you must install an extended connecting cable (TVAC40720).

6.3 Power supply

Before starting installation, ensure that the power supply voltage and the rated voltage of the camera are identical.



DC power supply, 12 V

The cameras have a 12 V DC power supply. Ensure correct polarity when connecting. The polarity is indicated with "+" and "-".

In addition, all cameras have Power over Ethernet (PoE) to supply the camera directly via the network cable.

⚠	If the camera has the function "Record during network failure" and this function is to be used, it's necessary to supply the camera via the 12 V DC terminal (do not use PoE).

⚠	When using PoE, you must pay attention to the power budget of the network switch. Make sure that each network port provides the maximum power for the standard (15.4 watt per network port). If the network switch distributes the power dynamically via all ports, it may cause power shortages.

6.4 Attaching the network cable

The maximum network cable (CAT7) length from the camera to the nearest active network point (e.g. network switch) should not exceed 100 metres.

6.5 Aligning the camera

Instructions for how to align the camera are given in the quickstart guide for the relevant IP camera IPCAXXXX.

6.6 Zoom and focus settings

IPCA22500 / IPCA32500 / IPCA62500 / IPCA62505 / IPCA72500 / IPCA72505

The cameras have a built-in Motor Vario zoom lens. It is possible to change the zoom factor or adapt the focus via the camera's web interface ("installer" access).

The zoom factor can be changed in stages, whereas the focus is automatically set for each of these zoom factors. It's possible to change the focus of each zoom factor via the camera's web interface ("installer" access). The change will be saved to the camera (over button “SAVE” on main page of “installer” access).

	The IPCA72505 has separate focus settings for day and night mode. By default automatic focusing is carried out in the day mode as well as in the night mode. If this fails due to the scene scene (for example, by objects in the field of view in the near and far range), the desired focus can be manually set and stored using the buttons on the LIVE page. The stored value is then used for the next day or night switching.

When the camera undergoes a factory reset, the factory-set zoom/focus relationship is reset too.

IPCA52000

Settings for zoom and focus are made manually in the lens to be installed (lens is not included in the scope of delivery).

6.7 Attaching the optional connecting cable for IPCA32500, IPCA72500 and IPCA72505

Using the optional connecting cables TVAC40720 and TVAC40730, suitable dome cameras can gain the following additional interfaces:

	TVAC40720	**TVAC40730**
Suitable for	**IPCA32500**	**IPCA72500**
Audio input, 3.5 mm stereo plug	√	√
Audio output, 3.5 mm stereo plug	√	√
1 x switching input	√	√
1 x switching output	√	√
Video output, BNC 1 Vss	√	√

6.8 Switching input and switching output

The maximum load values must be observed, otherwise the camera may be damaged irreparably.

	Name	**Connection instructions**
Switching input	DI+	5 V DC ~ 12 V DC max. 50 mA
	DI-	
Switching output	DO+	Max. 60 V DC/AC, max. 400 mA, Ron=1.4 Ohm (photo relay)
	DO-	

6.9 Status indicators

Display LED	Function
LED to display supply voltage (green)	If the LED is active and uninterrupted, the supply voltage is correct and available.
Status LED (blue)	a) LED flashes 1/s -> Camera is starting up, booting process b) LED deactivated (LED displaying supply voltage is permanently active) -> Camera start-up process has finished, functional status normal c) LED permanently on -> Fault. Network connection not possible. If it is not possible to access the camera, try to reset the camera using the reset button.

6.10 Connection instructions for audio input/output

Audio input	Connection for microphone with pre-amp Input impedance: 32 kOhm Mic voltage: max. 1 Vrms Connections: GND (1), Input (3)
Audio output	Output impedance: 32 kOhm Output voltage: 1 Vrms Connections: GND (1), Output (3)

6.11 Restoring factory settings (reset)

Resetting the password for "installer" access

1. Turn off the camera.
2. Press and hold the "PW reset" button on the camera.
3. Now connect the power supply to the camera (using 2-pin power supply or Power over Ethernet) and hold down the "PW reset" button for a further 60 seconds.

Reset all camera settings

1. Turn off the camera.
2. Press and hold the "Reset" button on the camera.
3. Now connect the power supply to the camera (using 2-pin power supply or Power over Ethernet) and hold down the "Reset" button for a further 60 seconds.

6.12 Changing the dome

IPCA32500 / IPCA72500

If required, there is a tinted dome available for the IP dome cameras specified (ABUS item number TVAC31065).
The dome is installed as follows:

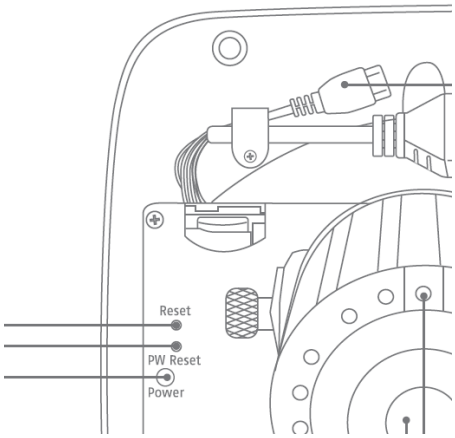
1. Remove the dome from the camera by loosening the four fixing screws (dome with dome ring).
2. Remove the remove fixing screws on the underside of the dome.
3. Remove the dome from the dome ring.
4. Insert the tinted dome into the dome ring.
5. Place the fixing ring on the underside of the dome ring and screw in the four fixing screws.

6.13 Exchange of microSD card (only IPCA32500, IPCA72500, IPCA72505)

	The exchange of the built in microSD card must be done in disconnected condition.

After loosening and removing the dome head, the pre-installed microSD card can be seen inside the housing. This card can be exchanged for a card with a different capacity. To remove, gently press the micro SD card, this will release the card from the socket. On inserting and pushing the card, the card will snap in automatically.

Max. capacity: 128 GByte



7. Initial start-up

7.1 Using the ABUS IP Installer for camera search

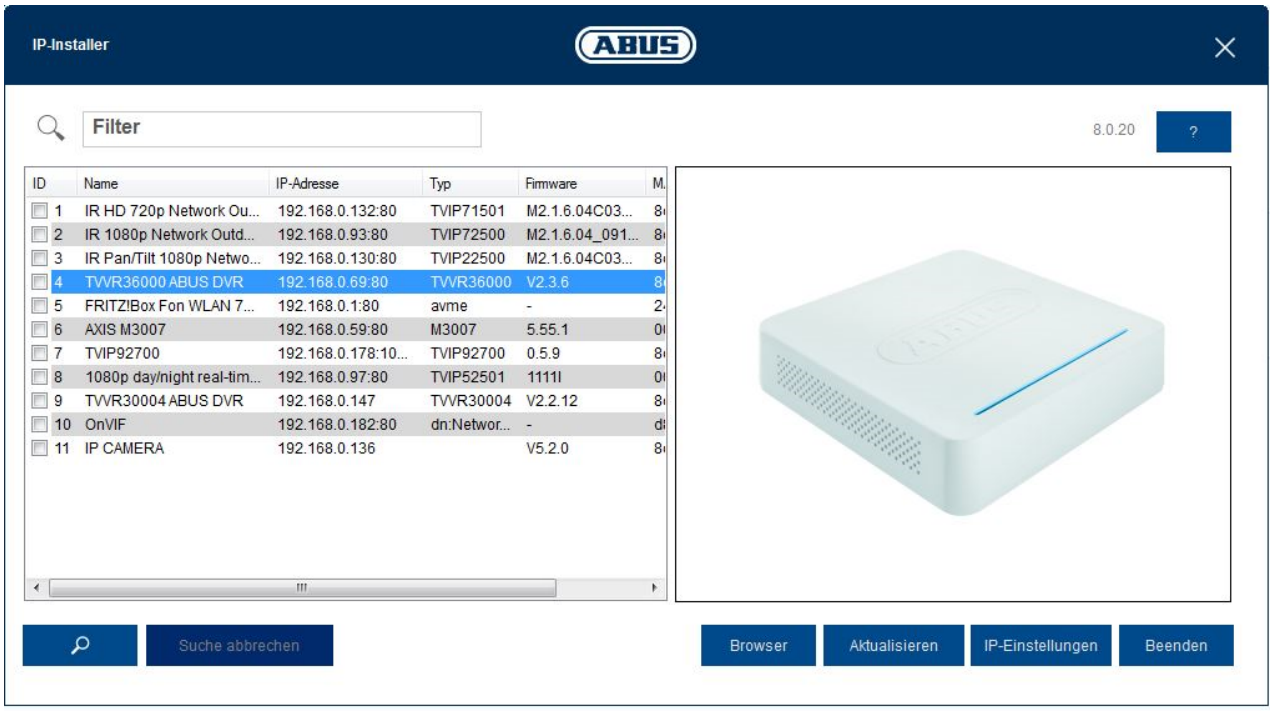
Install and start up the ABUS IP Installer using the enclosed software CD (or alternatively using the ABUS website www.abus.com, available for each respective product).

The IP camera should now appear in the selection list without the relevant IP address for the target network, where appropriate. The IP settings for the camera can be changed using the IP installer.

The language preference for the camera can also be changed using the ABUS IP installer. This will change the language preference for the master and installer users at the same time (for an explanation of master/installer, see chapter "User accounts and passwords"). Individual language preferences can be amended in the settings menus for master and installer.

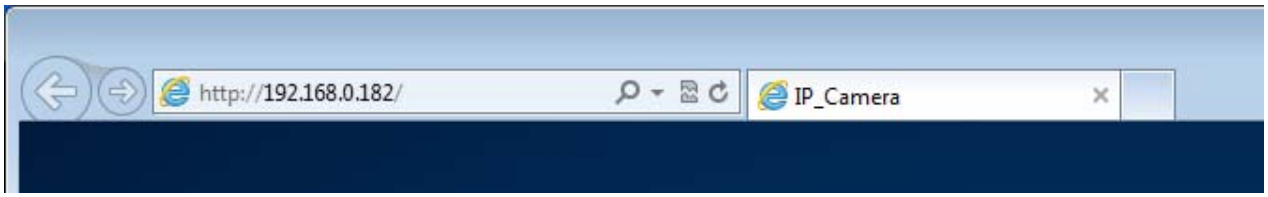
	Please be aware, that the language preference for the camera homepage is set automatically depending on the operating system language preference. If this language is not available in the camera, the homepage will be shown in English.

Using the "Browser" button, a previously selected camera can be opened directly in the internet browser (the default browser for Windows will be used).



7.2 Accessing the network camera using a web browser

Enter the camera IP address into the address bar in the browser (if a different HTTP Port is used in Internet Explorer you must also enter "http://“ before the IP address.)



7.2.1 General instructions for using the settings pages

Functional element	Description
	Save settings that have been made on the page. Please note that the new settings will only apply after the save button has been pressed.
	Function activated
	Function deactivated
	List selection
	Input field
	Slide control

7.3 Installing a video plugin

Internet Explorer

A plugin called ActiveX is used for displaying videos in Internet Explorer. This plugin must be installed in the browser. You will be asked to confirm the installation directly after entering your username and password (default: installer/<your password>).

	If the ActiveX Plugin installation is blocked by Internet Explorer, you will need to reduce your security settings to install/initialise ActiveX.

Mozilla Firefox

Unter der aktuellen Version von Mozilla Firefox ist aktuelle keine Videodarstellung möglich.

Google Chrome

Unter der aktuellen Version von Google Chrome ist keine Videodarstellung möglich.

	Hinweis für Google Chrome (ältere Versionen, bis Version 42): Das Videoplugin wird ausschließlich für die Windows-Version des Google-Chrome Browsers unterstützt. **Bei Google Chrome ist es zusätzlich notwendig, dass die NAPI Schnittstelle aktiviert ist (bis Version 42 von Google Chrome)** **Die aktuellste Version von Google Chrome unterstützt keine Videoplugs mehr. Somit ist eine Videoanzeige nicht möglich.**

Microsoft Edge

Unter der aktuellen Version von Microsoft Edge ist aktuelle keine Videodarstellung möglich.

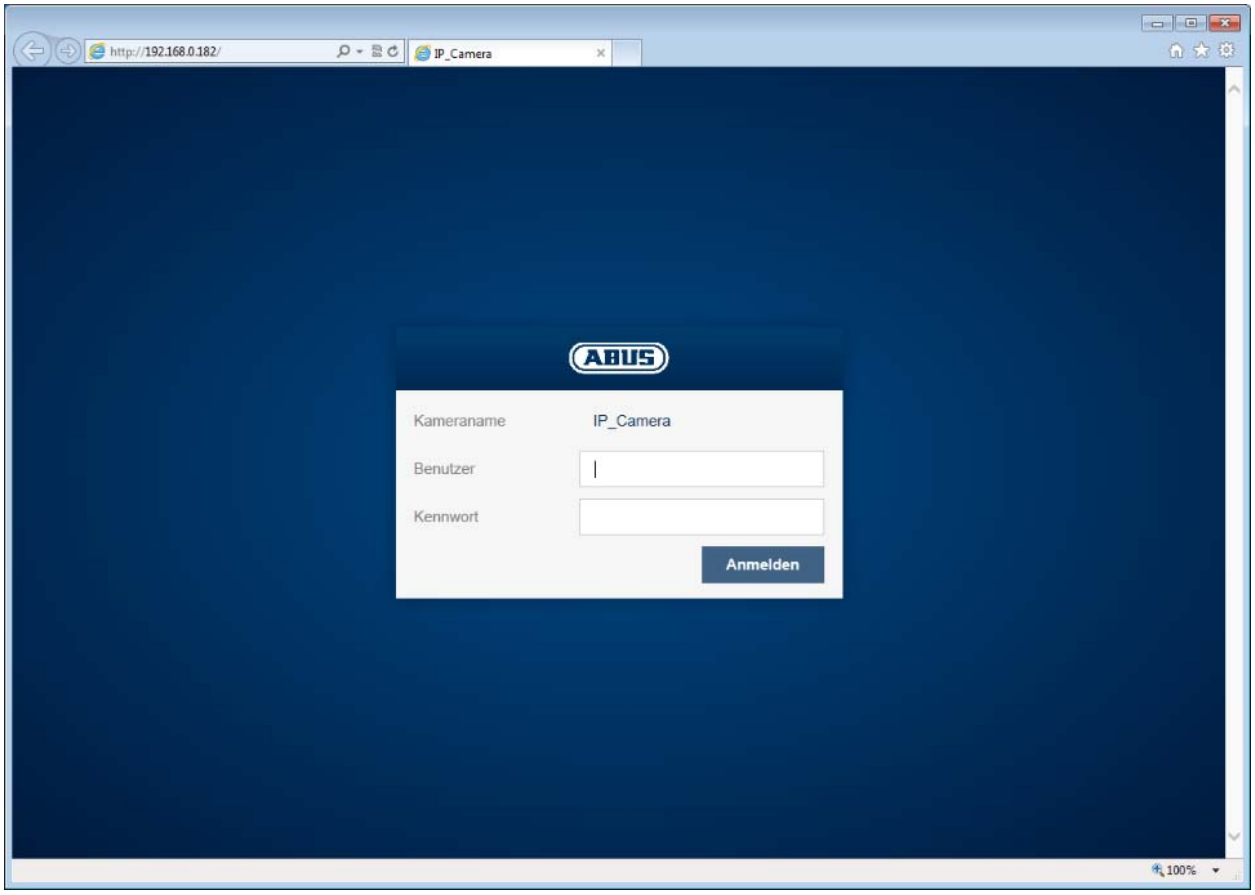
7.4 Homepage (login page)

After entering the IP address in the browser's address bar and opening up the page, the home page will appear in the language set in the Internet Explorer options (Windows setting).

Each respective user account (installer, master or user) can set their language individually. For example, the settings pages can be set to English for the "installer" account and German for the "master" account.

The following languages are supported: German, English, French, Dutch, Danish, Polish, Spanish, Portuguese, Swedish and Italian.

If a language is not supported, the website will be displayed in English.



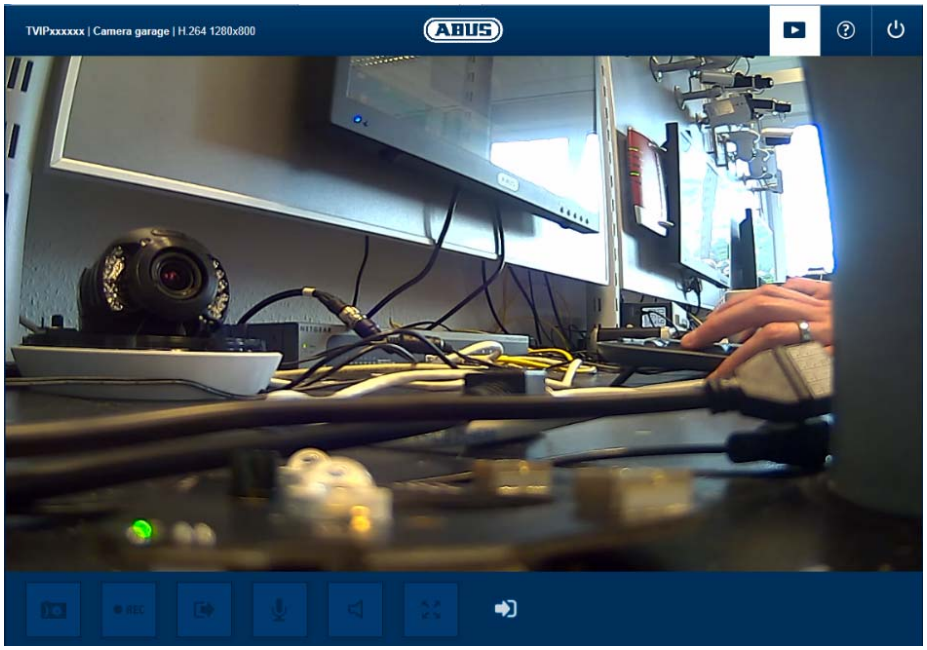
7.5 User accounts and passwords

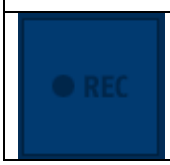
Overview of the types of user with the username descriptions, the default passwords and corresponding privileges.

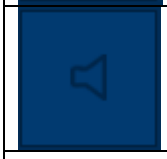
User types	Username	Default password	Privileges
Installer	installer <can be modified by installer>	installer <can be modified by installer>	• Video display on web browser • Instant image • Local video recording on PC • Control microphone/Speaker (optional) • Full screen mode in browser • Zoom/Focus setting (if available) • System overview • Image settings for day and night mode • Video streaming quality settings • Setting for network loss recording • Day/night switching • Privacy masking • IP address settings • Setting for connection ports • DDNS settings • HTTPS settings • SMTP settings • Displayed text • Date/Time • Export/Import/Restore • Firmware update/Restart • Log file • Motion detection settings • Alarm management (email/switch output) • Audio parameter • Add, change or delete users
master	<assigned by installer>	<assigned by installer>	• Video display on web browser • Instant image • Local video recording on PC • Control microphone/Speaker (optional) • Full screen mode in browser • Block and unblock "installer" access • Playback of recordings from the internal memory (after network failure)
user	<assigned by installer>	<assigned by installer>	• Video display on web browser • Instant image • Local video recording on PC • Control microphone/Speaker (optional) • Full screen mode in browser

8. User menu "user"

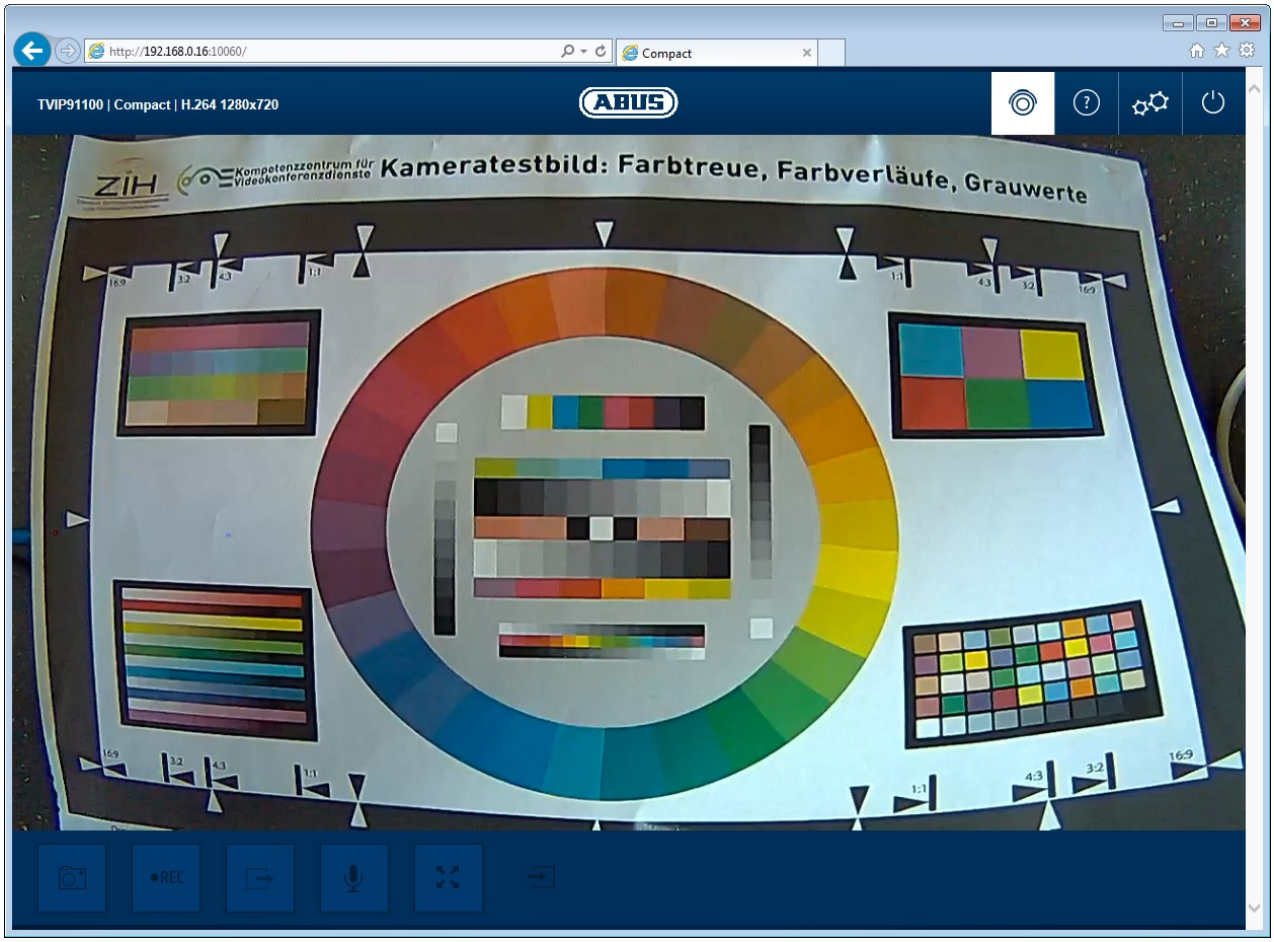
Button/display on screen	Function
TVIPxxxxxx | Camera garage | H.264 1280x800	Information bar
	Live display
	Help page
	Log out as user



Button/display on screen	Function
	Instant image function This function saves an instant image from the current video stream in JPEG format. The picture is stored in the following folder: C:/Users/<username>/Own images
	Video function This function saves a video from the current video stream in AVI format. The video is stored in the following folder:

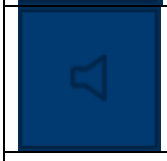
	C:/Users/<username>/Own users
	Activate switching output This button can be used to manually activate or deactivate the switching output (e.g. door opener function).
	Muting the microphone (if available) This button can be used to deactivate the microphone in the optional audio input.
	Muting the speaker (if available) This button can be used to deactivate the speaker in the optional audio output.
	Full screen mode Switching the video picture on the monitor to full screen mode (you can also do this by double clicking within the video frame). You can exit full screen mode by double clicking within the video frame again or pressing the ESC button.
	Status display switching input This symbol displays the activation status of the switching input.

9. View and configuration menu user "master"

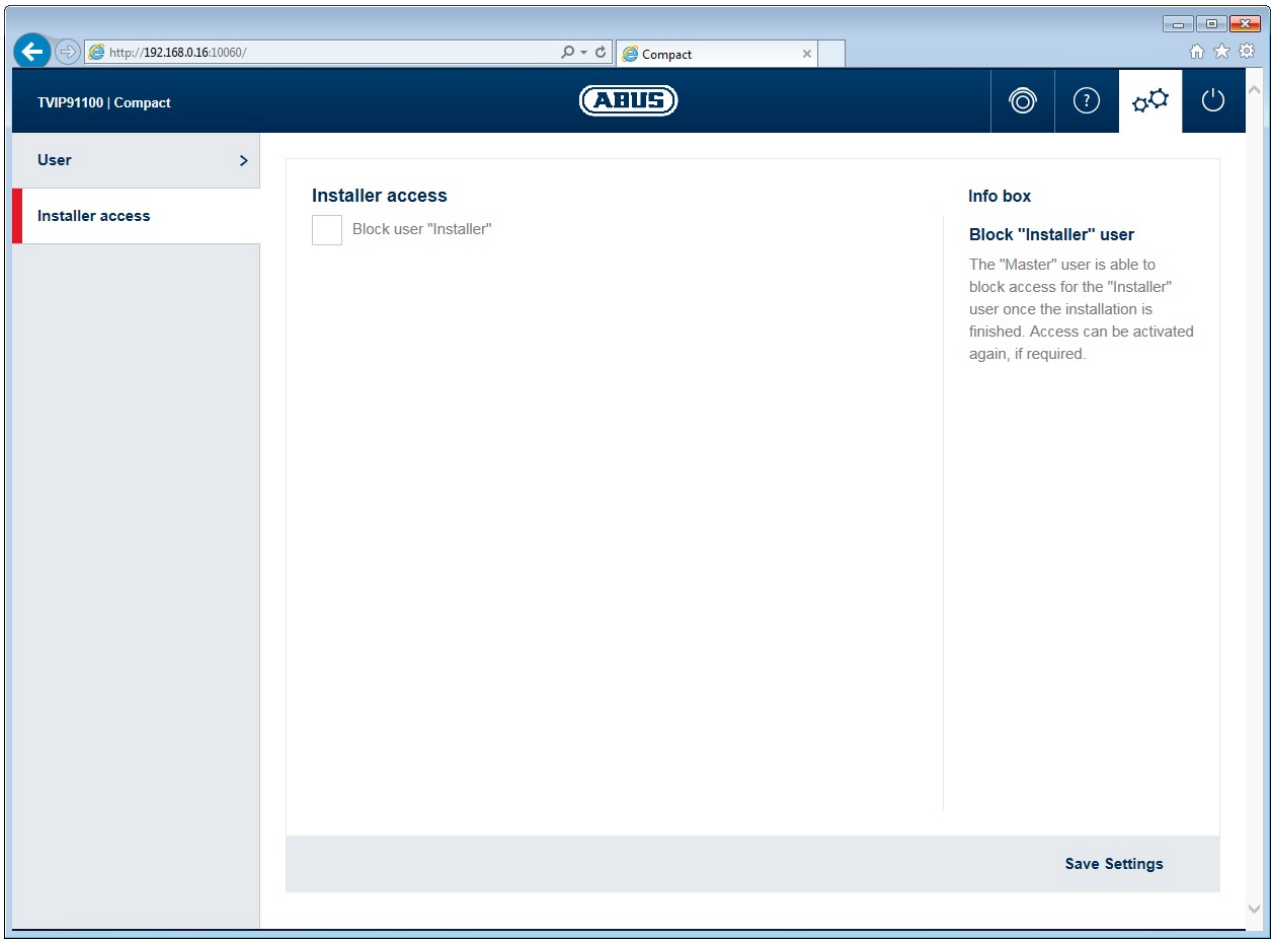


(Example image)

Button/display on screen	Function
	Instant image function This function saves an instant image from the current video stream in JPEG format. The picture is stored in the following folder: C:/Users/<username>/User images
	Video function This function saves a video from the current video stream in AVI format. The video is stored in the following folder: C:/ Users /<username>/User videos
	Activate switching output This button can be used to manually activate or deactivate the switching output (e.g. door opener function).

	Muting the microphone (if available) This button can be used to deactivate the microphone in the optional audio input.
	Muting the speaker (if available) This button can be used to deactivate the speaker in the optional audio output.
	Full screen mode Switching the video picture on the monitor to full screen mode (you can also do this by double clicking within the video frame). You can exit full screen mode by double clicking within the video frame again or pressing the ESC button.
	Status display switching input This symbol displays the activation status of the switching input.
	Live view page for "master" user
	Information page with explanations of what the buttons do.
	Settings page for "master" user.
	Log out as user. Afterwards the login page is displayed again.

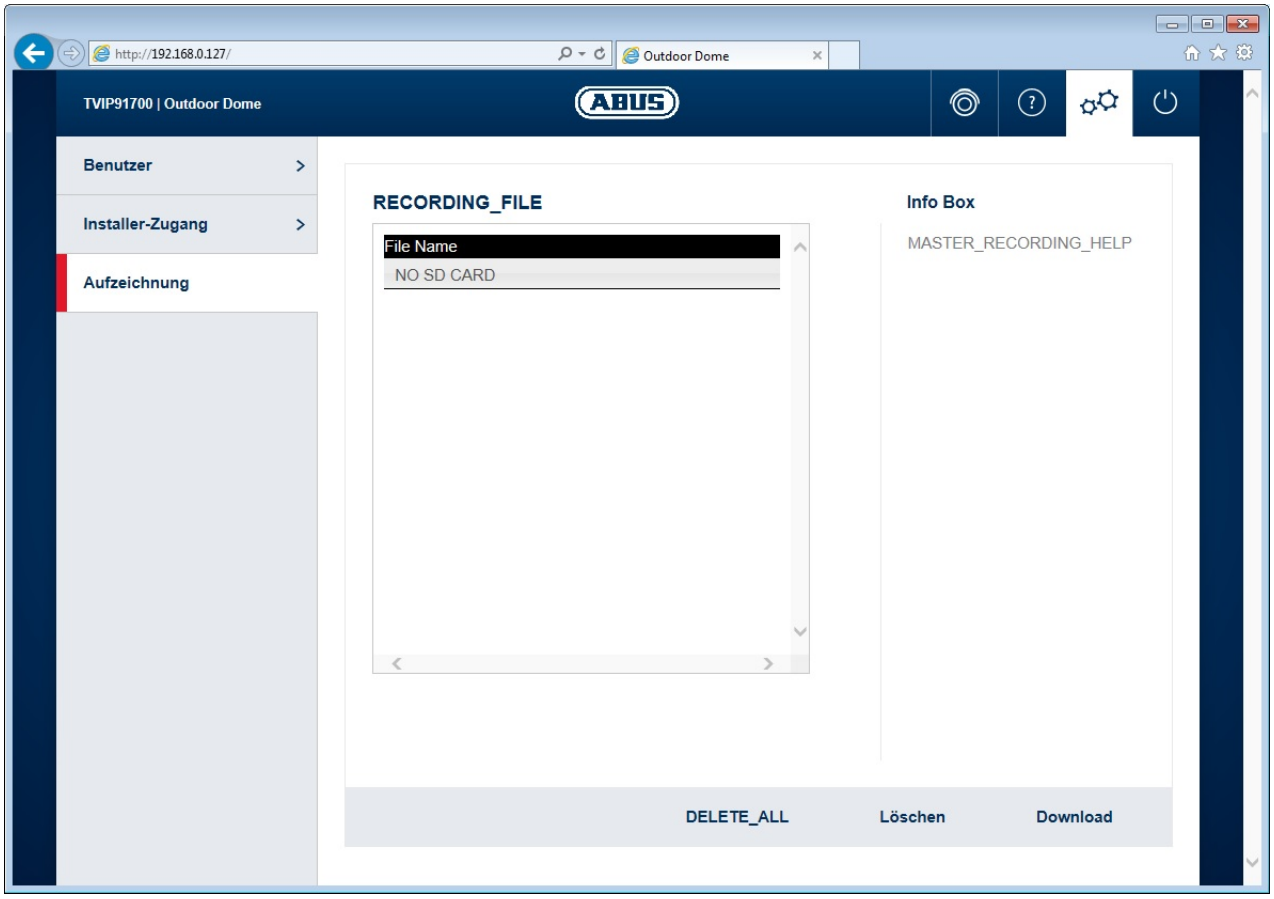
9.1 Deactivate/activate installer access



Block user "installer": ticking the box will block access for the user "installer". Only the "master" user can unblock access again.

⚠	If the "installer" user has forgotten their login information, you must load the factory settings for the camera via the "RESET" button. This will restore all usernames and passwords to factory settings.

9.2 Displaying/downloading video from the internal memory



File list: all the video data recorded by the camera during a network failure is displayed here. The maximum file size is 150 MB. If the file size is exceeded due to the length of recording, a new file is opened.

The file name represents the recording's starting time.
File format: YYYYMMTThhmmss.avi

⚠	Make sure that the camera's time setting is entered correctly before activating the network loss recording function.

Delete all: delete all recorded data from the camera's internal memory. Important: all files are permanently lost after performing this function.

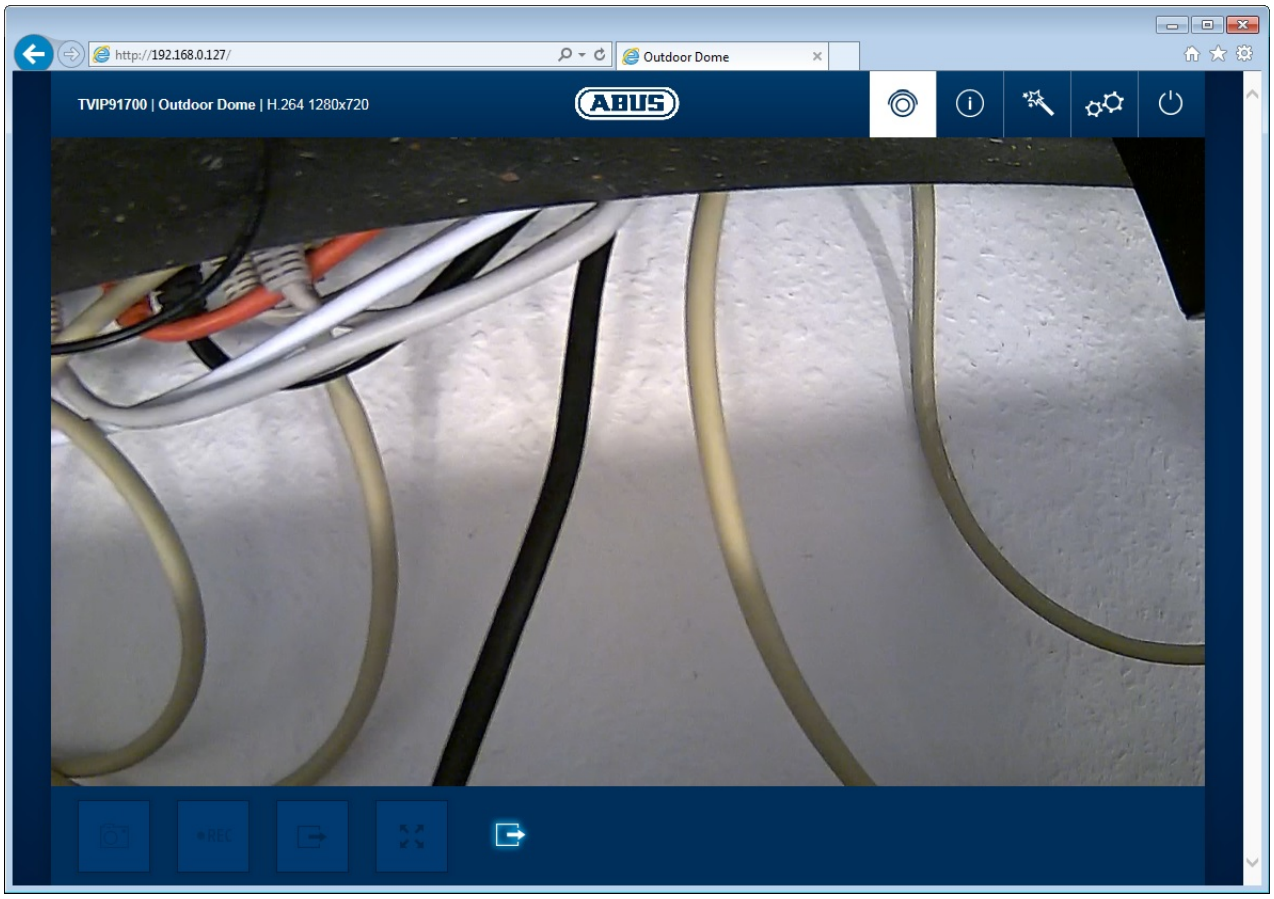
Delete: delete one or more files by marking them in the file list.

Download: download files by marking them in the file list (they will be downloaded one after another).

10. View and configuration menus user "installer"

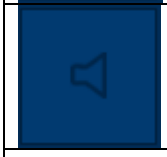
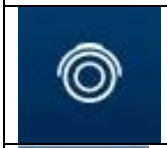
10.1 Live view

The live view display for the installer user is similar to that of the master user. However, the installer user has extended options for settings such as the set up wizard or extended configuration.



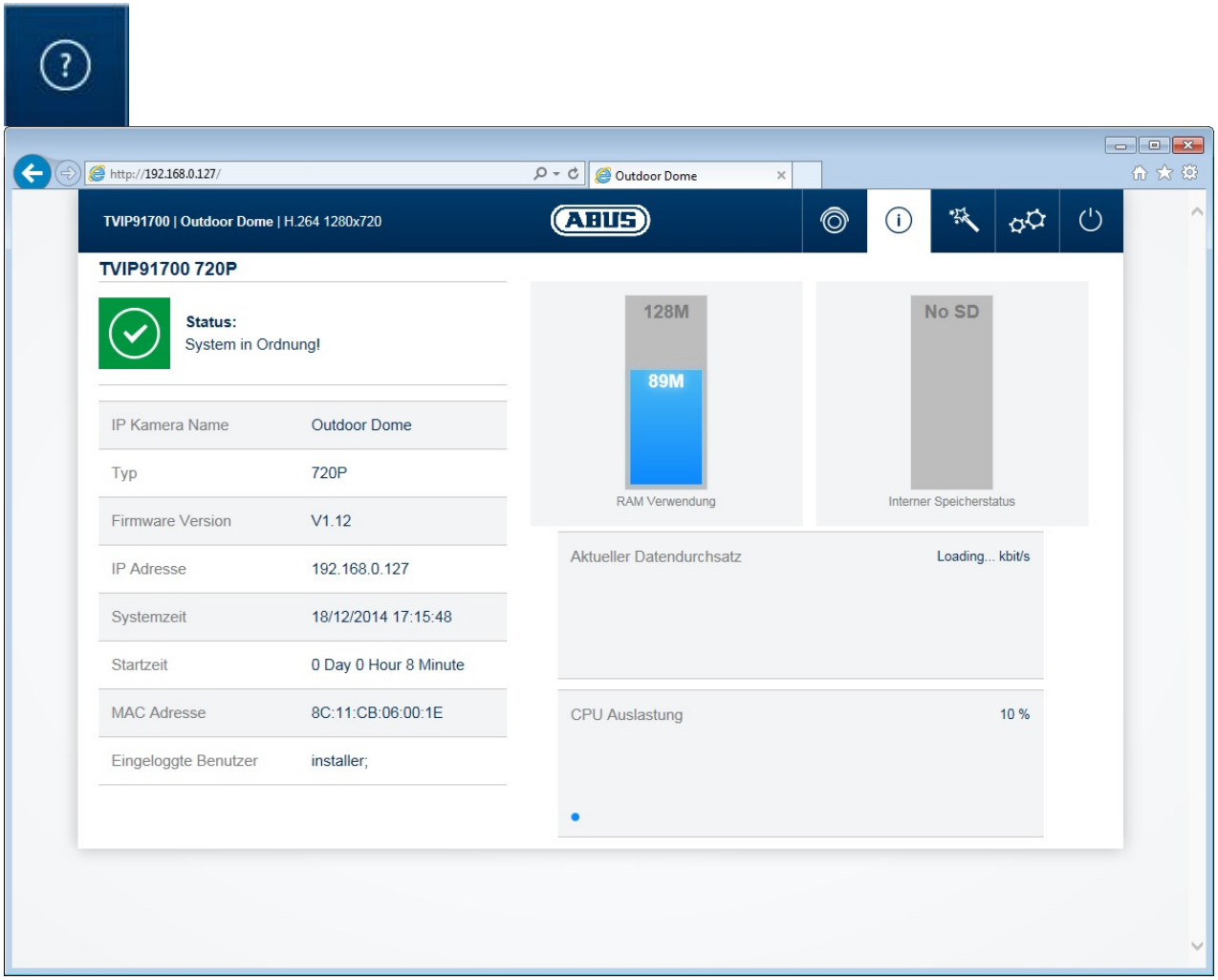
(example image of TVIP91700)

Button/display on screen	Function
	Instant image function This function saves an instant image from the current video stream in JPEG format. The picture is stored in the following folder: C:/Users/<username>/Own images
	Video function This function saves a video from the current video stream in AVI format. The video is stored in the following folder: C:/Users/<username>/Own images

	Activate switching output This button can be used to manually activate or deactivate the switching output (e.g. door opener function).
	Muting the microphone (if available) This button can be used to deactivate the microphone in the optional audio input.
	Muting the speaker (if available) This button can be used to deactivate the speaker in the optional audio output.
	Full screen mode Switching the video picture on the monitor to full screen mode (you can also do this by double clicking within the video frame). You can exit full screen mode by double clicking within the video frame again or pressing the ESC button.
	Zoom/focus setting (only available with IPCA22500, IPCA32500, IPCA62500, IPCA62505, IPCA72500, IPCA72505)
	Status display switching input This symbol displays the activation status of the switching input.
	Setting the basic position of the lens (zoom factor 1x, wide angle)
	Save the currently configured zoom and focus position. After restarting the camera, this position is set again.
	Live view page for "installer" user
	Information page with explanations of what the buttons do.
	Settings page for "installer" user.
	Log out as user. Afterwards the login page is displayed again.

10.2 Info page

The info page displays general information about the camera, e.g. installed firmware version or MAC address of the camera.



In the area to the upper left, the general status of the system is represented by a symbol.

	System is running correctly All parameters such as system temperature and processor usage are fine. All functions in use are working correctly.
	System is faulty Errors have occurred in the system. But these are not critical to the basic functionality of the camera. However, they could cause limitations or malfunctions within certain functions. The system may need to be tested by the installer.
	System condition is critical Certain parameters such as system temperature or processor usage are critical for the system. The system must be tested by the installer immediately.

IP camera name: display of the camera name. Can be modified using Configuration/System
Type: display of the max. resolution of the camera platform.
Firmware version: display of the firmware version currently installed

IP address:	display of the IP address currently set
System time:	current date/time set:
MAC address:	MAC address of the camera (hardware address of the network interface)
Logged on user:	user currently logged on
Memory usage:	internal memory status
Data throughput:	total video and audio bit rate over the network interface (outgoing)
CPU usage:	display of the processor usage of the camera.

10.3 Setup wizard

The setup wizard navigates you through the most important menu options the camera has. The setup wizard deals with the following menu options:

Network ► DDNS ► Text ► Date/time ► Installer ► Service ► Storage/Restart

	For more information on each settings option see the section "Advanced camera settings".

10.4 Advanced camera settings

10.4.1 Video

10.4.1.1 General

Mirroring:	This setting is used to reflect the picture horizontally or horizontally and vertically.
Network frequency:	Here you can set the network frequency of the power supply. The standard for Germany is 50 Hz.
Shutter:	Please select Auto, Anti-Flicker (shutter adjustment to flickering arteficial light source) or fixed value.
Slow Shutter:	This function is a long exposure function (brighter image at low illumination), this is the value of 1/2 of the longest exposure time. Longer exposure time, the frame rate is reduced.
AGC:	Max. Value for the gain control
White balance:	Choice of automatic or manual white balance (choice of color temperature with possibility of adjustment of red and blue values)
AWB Push Lock:	When this option is selected and then saved, the white balance is performed once. This setting is no longer automatically changed.

10.4.1.2 Day profile

For the day mode settings can be made for the following parameters. The night profile settings in the following point are unaffected by these.

Brightness:	image brightness settings
Contrast:	image contrast settings
Sharpness:	image sharpness settings. A high sharpness value can increase image noise.
Hue:	image hue settings
Saturation:	image saturation settings
WDR:	ticking the checkbox activates the camera's wide dynamic range (WDR) function.
WDR level:	the WDR function intensity can be set here.
Noise reduction:	ticking the checkbox activates the DNR function.
Colour image:	if this function is activated, a colour image is displayed in day mode. When it's deactivated, a black and white image is displayed. This function is active by default.

10.4.1.3 Night profile

The settings options for night mode are almost identical to the day profile. The day and night profile settings are independent of one another.

Brightness:	see option "Day profile"
Contrast:	see option "Day profile"
Sharpness:	see option "Day profile"
Hue:	see option "Day profile"
Noise reduction:	ticking the checkbox activates the corresponding noise reduction function.
3D-DNR level:	noise reduction for dynamic images
Colour image:	see option "Day profile"
IR LEDs off:	this function is only available for models IPCA22500, IPCA32500, IPCA62500, IPCA62505 and IPCA72500. This function helps if the built-in IR LEDs are causing undesired reflections in the video picture (e.g. camera installation behind window panes or too close to objects) Checkbox ticked: IR LEDs are deactivated in night mode Checkbox not ticked: IR LEDs are activated in night mode.

10.4.1.4 Day/night switching

Lighting level:	the current lighting level is measured using a light sensor on the camera. Day/night switching is controlled according to the lighting level. The minimum gap required to avoid constant switching between the two is set automatically.
Day > Night:	the lighting threshold for switching from day mode to night mode.
Night > Day:	the lighting threshold for switching from night mode to day mode.
Schedule:	switching between day and night mode using a time schedule. The camera can be set to switch at intervals of 30 minutes.

	The time range set represents the day time range. Outside of these times, night mode is used.

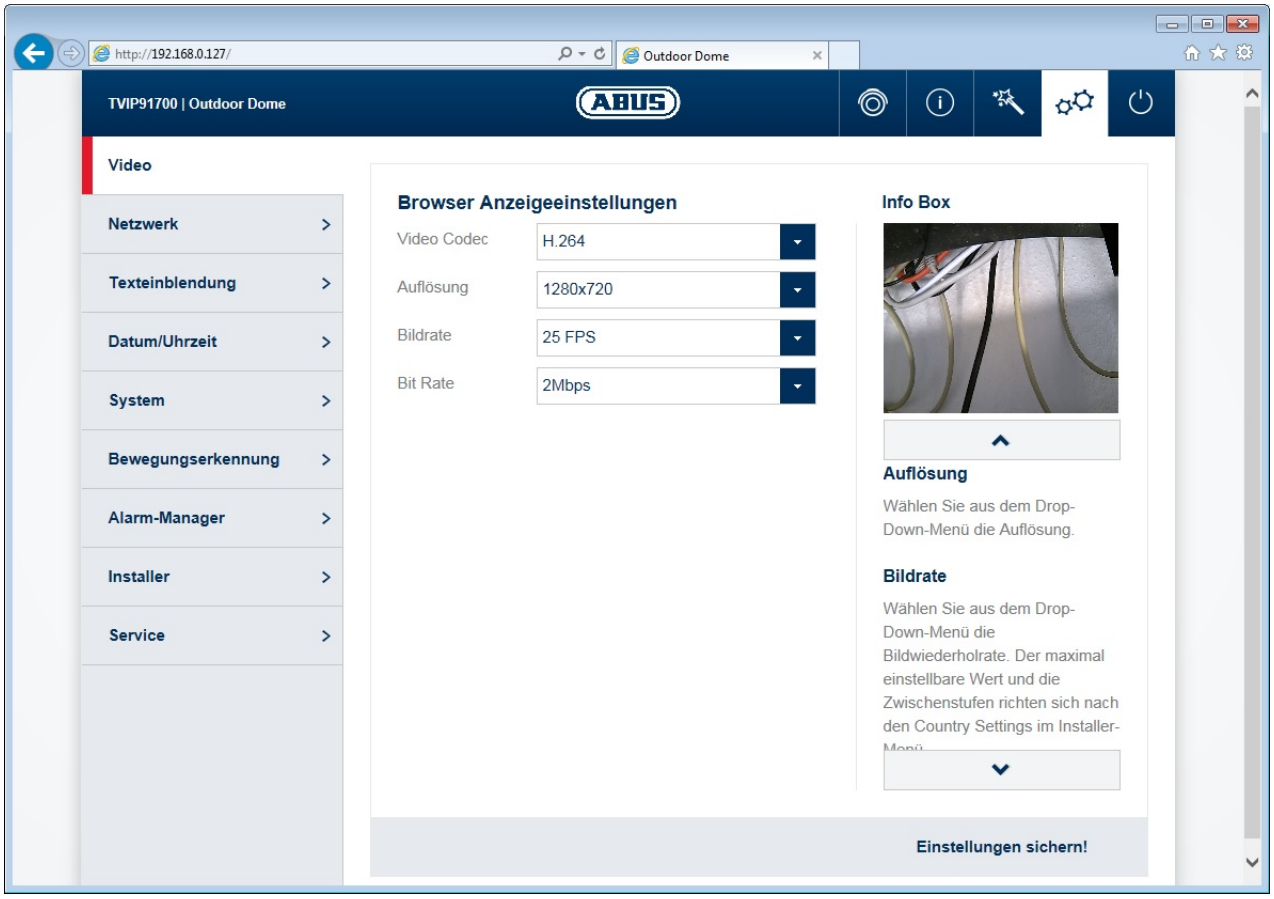
Day:	the camera stays in day mode permanently. In day mode the infrared cut filter (ICR) is constantly in front of the lens. This means that the image sensor can't pick up any infrared light.
Night:	the camera stays in night mode permanently. The infrared cut filter is constantly separated from the lens.

10.4.1.5 Privacy masking

Up to three ranges can be selected in the video. The ranges are automatically named P1, P2 and P3. These ranges are marked as black in the actual video image.

List of ranges:	list of all the ranges established
Add:	if you press this button, a new entry is created in the list. Then click on the list entry to select a mask further on in the preview. Selecting a second one will remove the previously selected mask. The masks are applied by saving them to the settings.
Delete:	deleting a range previously selected in the list of ranges.

10.4.1.6 Video stream settings



In the video stream setting there are settings for the video stream 1, 2 or 3.

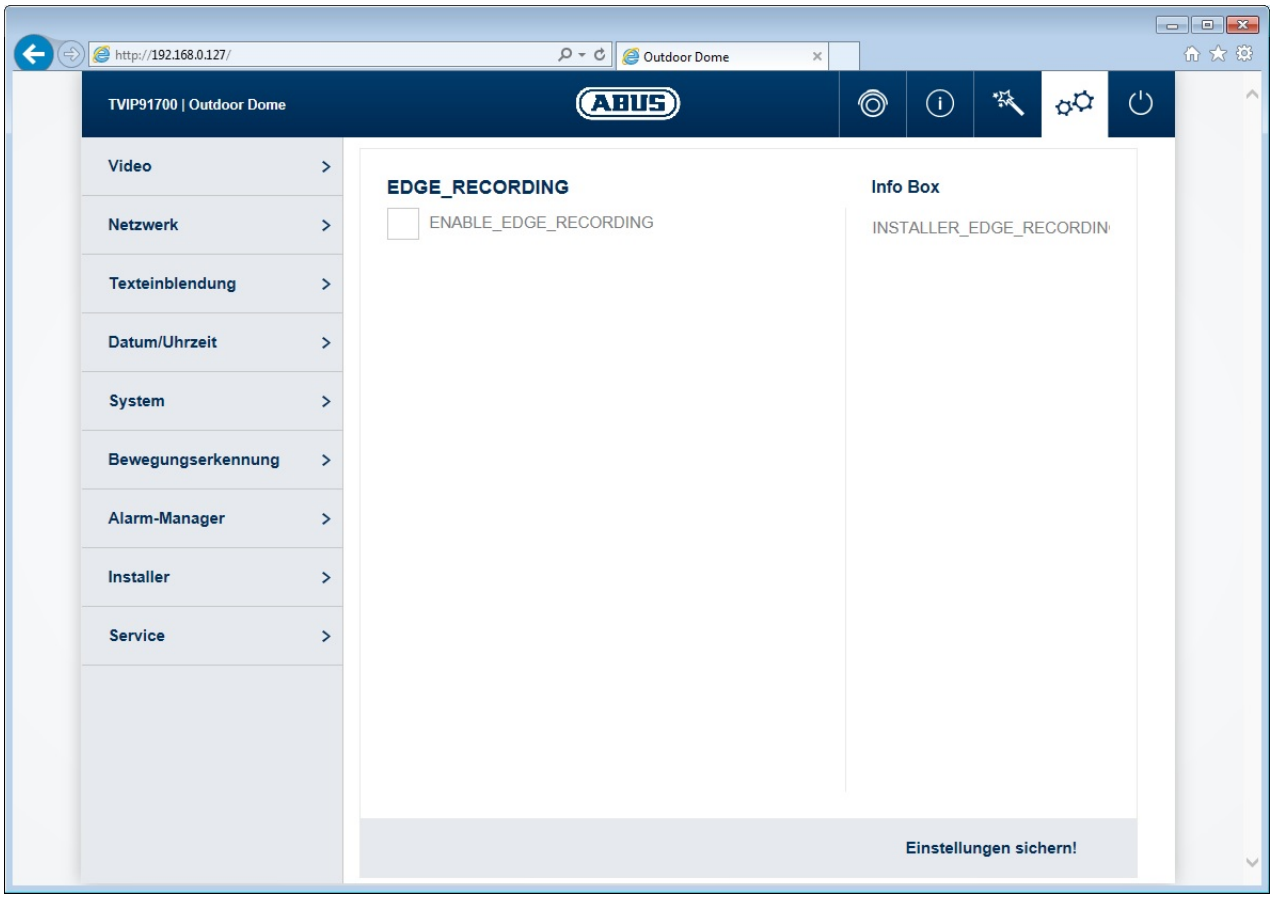
Stream 1 (record/browser stream)
Stream 2 (app-/multi screen view stream)
Stream 3 (network loss stream)

TV output:	Enable or disable of the analog video output on the camera
Video codec:	Select the type of video coding from the drop-down menu. You can choose from H.264 and MJPEG. Note: For the Video display a Browser Plugin is always required (only compatible with Internet Explorer).
Resolution:	Select the resolution from the drop-down menu.
Frame rate:	Select the frame rate from the drop-down menu.
Bit rate type:	CBR (Constant Bit Rate) = The codec tries to reach the set bit rate on average. MBR (Multiple Bit Rate) = The codec used lower bit rates, if not elaborate scene changes take place.
Profile:	Selection of Codec Profile type

Bit rate / Video quality:	Select the maximum bit rate (h.264) or video quality (MJPEG) from the drop-down menu. The recommended settings for h.264 are 4 mbit/s at 1080p and 2 mbit/s at 720p.
QP:	Setting the size of the I-frame image. Higher values (eg +12) result in better image quality, however, there may be restrictions on playback, since the decoding is more complex and takes longer.
GOP Size:	Frequency, how often an I-frame image is transferred. At higher frequency the Bildqualiät is better, however, increases the bit rate required.

10.4.1.7 Network loss recording

This function allows you to record video data to your internal camera memory in case of IP network failure. Despite the recording device losing its connection to the network, the video data remains available in the camera for this period.
As the function tests the existence of a certain IP address or domain address in the network, it can also be considered "recording when the network device fails". That means that the camera can record internally if another camera fails. This function is useful where both cameras have the same or a similar field of view.



Enable network loss recording:	activates the function
Cycle recording:	if activated, old data is deleted when the internal memory reaches its maximum capacity so that new data can be stored.

Ping IP address:	IP address or domain address that is tested for existence in the network (this could be the NVR, for example)
Interval:	interval for the test. The ping interval determines when recording starts after the unsuccessful ping. The smaller the interval, the earlier the recording is able to begin (but this does require a good network infrastructure).

	If the camera has the function "Record during network failure" and this function is to be used, it's necessary to supply the camera via the 12 V DC terminal (do not use PoE).

10.4.2 Network

10.4.2.1 IPv4 Settings

DHCP:	the IP address, subnet mask, gateway (default router) and address for the DNS server are obtained automatically from a DHCP server. An activated DHCP server must be present in the network in this case. The fields on this page are deactivated in this mode and serve as informational fields for the data obtained.
Static IP address:	manual setting of the network parameter for IPv4.
IP address:	manual setting of the camera's IP address
Subnet mask:	manual setting of the camera's subnet mask
Gateway:	manual setting of the camera's gateway IP address (also known as default router)
DNS server 1:	manual setting of the DNS server's IP address
DNS server 2:	alternative IP address of a DNS server

10.4.2.2 Ports

HTTP port:	the default port for HTTP transmission is 80. If several IP cameras are located on one subnet, each camera should have its own unique HTTP port.
RTSP port:	the default port for RTSP transmission is 554. If several IP cameras are located on one subnet, each camera should have its own unique RTSP port.
RTSP authentication:	when authorising an activated RTSP, you must give your username and password for the video to be requested by a client.

	If the camera is to be accessed via routers (e.g. from the internet to the local network), port forwarding must be set up for the HTTP and RTSP port in the router. If HTTPS is also being used, port forwarding must be set up for the HTTPS port too.

10.4.2.3 DDNS

Activate DDNS:	ticking the checkbox activates the DDNS function.
Select service:	select a service provider for the DDNS service.
Username:	user account identification with the DDNS service provider
Password:	account password with the DDNS service provider
Host name:	registered host name with the DDNS service provider

	Further information on the "ABUS SERVER" can be found on the help page at the following address: https://www.abus-server.com/faq.html

10.4.2.4 HTTPS

Activate HTTPS:	ticking the checkbox activates the HTTPS function (fixed, self-signed certificate). The HTTP interface is largely active.
HTTPS port:	the default port for HTTPS transmission is 443. If several IP cameras are located on one subnet, each camera should have its own unique HTTPS port.

	If the camera is to be accessed via routers (e.g. from the internet to the local network), port forwarding must be set up for the HTTP and RTSP port in the router. If HTTPS is also being used, port forwarding must be set up for the HTTPS port too.

10.4.2.5 SMTP/Email

The settings on this page are required to send an email in case of an incident. This action is configured in the "Alarm manager" menu option.

Activate email:	ticking the checkbox activates the SMTP/email function.
Sender email address:	email address of sender
Sender name:	name of sender
SMTP server:	SMTP server address of email provider
SMTP server port:	SMTP server port
Activate SSL:	ticking the checkbox activates the SSL function if the SMTP server supports or requires this.
Activate TLS:	ticking the checkbox activates the TLS function if the SMTP server supports or requires this.
Activate authentication:	ticking the checkbox activates authentication if the SMTP server supports or requires this.
Username:	username for the SMTP server account
Password:	password for the SMTP server account
Test email address:	assign an optional email address for sending a test email. To send the test email, press the button "Test email".

10.4.2.6 Multicast

Multicast IP address:	IP address of the multicast group
Port:	Port number of the multicast group
TTL:	Time-to-Live value

10.4.2.7 ONVIF

ONVIF enable:	Acivation of the ONVIF interface
ONVIF authentification:	To connect via ONVIF protocol a valid username and password is required.

10.4.2.8 FTP Server

FTP server address:	Enter the address of the FTP server in the LAN or WAN.
FTP user name:	Enter the user name from the FTP server account.

FTP password:	Enter the password from the FTP server account.
FTP server port:	Enter the FTP port of the server. The default for the FTP port is 23.
Path:	If necessary, enter another path (subfolder on the FTP server).
FTP mode:	Port: Active FTP mode PASV: Passive FTP mode
Create a folder:	If this function is enabled, the camera automatically places sub-folders on the FTP server with date (for example: folder/20160527/121032m.avi).

10.4.3 Overlay text

This function allows certain text, the date and time to be superimposed on to the video.

Activate overlay text:	ticking the checkbox activates the function.
Date:	superimposes the date
Time:	superimposes the time
Text activated:	activation of text
Text:	assignment of text. Up to a maximum of 16 characters can be assigned. Permissible characters are: A-Z, a-z, 0-9

10.4.4 Date/time

Current date and time:	the current date and time settings are displayed here.
Time zone:	select the time zone in which the camera is located.
Enable daylight savings time:	by ticking the checkbox, you are confirming that the location in which the camera is installed takes part in daylight savings time. Auto: the camera automatically uses the switch-over times every year. Manual: manual switch-over time settings.
NTP server synchronisation:	tick the box for the camera to automatically obtain the date and time from a server (please note: the NTP server does not hold any information on the summer/winter time changeover).
NTP server:	enter the domain name or the IP address of the time server here.
NTP update interval:	update interval for the date and time with the server. An update also takes place when the camera is restarted.
PC time synchronisation:	when you save, the date and time from the connected client PC are adopted.
Manual:	manual assignment of date and time

10.4.5 System

10.4.5.1 General

Camera name:	you can change the default camera name here. Up to a maximum of 16 characters are permitted. Permissible characters are: A-Z, a-z, 0-9
Export configuration:	export the camera' s configuration data into a file
Import configuration:	import the camera' s configuration data from a file
Reset settings:	restore all settings to factory settings, except network settings
Include network:	after ticking the checkbox and performing the function for resetting settings, all settings including the network parameter are reset.

10.4.5.2 Firmware/Reset

Current firmware:	displays the firmware version currently installed
Firmware online check:	this function checks whether a new firmware version is available on the ABUS website. If there is, the camera offers to download the firmware on to the PC (download link). Then the firmware must be manually installed using the firmware update function.
Firmware update:	a more recent version of the camera firmware can be installed here. More information on firmware is available on the ABUS website (www.abus.com).
Restart:	manual camera restart
Schedule restart:	the camera can be restarted here at a specific frequency.

10.4.5.3 Log file

Log file:	data relevant to the system is recorded in the log file. This can help with troubleshooting, for example.
Export:	exporting the log file into another file

10.4.6 Motion detection

List of ranges:	displays all the ranges of movement set
Display all:	tick the checkbox to display a preview of all ranges at the same time.
Range name:	name of range
Ignore the threshold value:	The threshold value is ignored, thereby causing any small pixel change movement. This setting can be advantageous with a wide image width (e.g., outside). However, a delay before alarm should be used.
Delay before alarm:	Delay time before a motion alarm is triggered after recognition of the image change.
Add:	after assigning the range a name and pressing this button, a new entry is created in the list. Then click on the list entry to select a

	mask further on in the preview. Selecting a second one will remove the previously selected mask. The masks are applied by saving them to the settings.
Delete:	selecting a range in the list and pressing this button deletes the range.
Threshold value:	represents the area that has to be changed in the video frame
Day sensitivity:	represents the rate of change (day mode)
Night sensitivity:	represents the rate of change (night mode)

10.4.7 Alarm manager

Alarm manager:	in alarm manager you can create rules for handling events, e.g. switching a camera switching output during motion detection. A maximum of one trigger can be used for each rule. A maximum of one action can be set for each rule. A maximum of five rules can be created for handling one event.
Trigger:	select the event trigger
Schedule:	defines when the rule should be active (in half hour increments). If an area is marked as red, it's marked as active.
Action:	you can choose between two events: 1) Switching output: the switching output can either function as a normally closed or normally open contact whereby the active periods can be defined. There are certain time periods and continuous activities available as an active period. 2) Email An email can be sent to a specific recipient. The content and subject line can be assigned. It is also possible to select a certain number of pre- and post-alarm images. 3) FTP It is possible to select a certain number of pre- and post-alarm images.
Add:	adds a new event rule
Edit:	edits an event rule
Delete:	deletes an event rule

The following triggers for events are available:

Switching input:	All cameras in this series have a switching input (an optional cable in dome cameras). On standby, you can select N.O. (normally open) or N.C. (normally closed).
Motion detection:	select the camera's internal motion detection. This will analyse all configured masks. It is not possible to detect which mask has made the trigger.
Restart:	triggering when the camera restarts
Watchdog error:	the system can restart automatically after a serious malfunction (this is known as 'watchdog'). This can be used as a trigger.
Day/night switching:	choose between switching to day or night mode as an event trigger.
Authentication error:	entering an incorrect password twice can be used as a trigger.

Continuous trigger:	The Continuous trigger is used to send a single image to an FTP server at a certain interval (30 sec - 24h). The existing file is always overwritten (rights on the FTP server for overwriting must be present).
Back up settings:	the last page of event configuration displays an overview of all rule parameters that have been set. You must then press the "Save" button.

10.4.8 Audio

Audio input:	settings for input volume
Audio output:	settings for output volume

10.4.9 User

Username:	display registered username
Type:	the registered user's user account type There may only be one "master" user account type. Up to 10 users can be assigned the "user" account type.
Language:	display the language set for the users. Available languages are: English, German, French, Dutch, Danish, Polish, Italian, Spanish, Russian and Swedish
Add:	open the menu for registering users of account type "user"
Edit:	edit the language or password for "master" or "user"
Delete:	delete users of account type "user". Users of account type "master" cannot be deleted.
Password:	assign the password for the user. Permissible characters are: A-Z, a-z, 0-9
Confirm password:	confirmation of password for the user.
Change password:	ticking the checkbox opens up the menu for changing the password.
Password:	enter the new password. Permissible characters are: A-Z, a-z, 0-9
Confirm password:	confirm the password

10.4.10 Service

Country of service:	select the country responsible for providing support for the camera in use.
Network frequency:	set the network frequency (only 720p camera types). In Germany the standard network frequency is 50 Hz.
Send data:	with approval from the "installer" user, the camera settings data and log file can be sent to ABUS Support. This is dependent on the previous setting in your country of service.
Service user:	if service is required, this function can create a username and password. Username: **service** Password: the password must be entered. Max. 16 characters. Permissible characters are:

11. Maintenance and cleaning

11.1 Function test

Regularly check the technical safety of the product, e.g. check the housing for damage.

If it seems that it may no longer be possible to operate the device safely, stop using the product and secure it to prevent unintentional use.
It is likely that safe operation is no longer possible in the event that:

- the device shows signs of visible damage
- the device no longer works correctly
- the device has been stored in adverse conditions for a long period of time
- the device has been exposed to stresses during transportation.

Please note:
You do not need to perform any maintenance on the product. There are no components requiring servicing or checking inside the product. Never open it.

11.2 Cleaning

Clean the product with a clean, dry cloth. The cloth can be dampened with lukewarm water if there is dirt that is hard to remove.

Make sure that no liquids enter the inside of the device, as this will destroy it. Do not use any chemical cleaning agents, as these could damage the surface of the housing.

12. Disposal

Devices displaying this symbol may not be disposed of with domestic waste. At the end of its service life, dispose of the product according to the applicable legal requirements.
Please contact your dealer or dispose of the products at the local collection point for electronic waste.

13. Technical data

Technical data of all cameras of this series are available under www.abus.com over the product search function.