DW700K v.2

Zusatz-Full-HD-Funk-Überwachungskamera

Bedienungsanleitung

1. Einleitung

Lesen Sie diese Bedienungsanleitung vollständig und sorgfältig durch. Die Bedienungsanleitung gehört zu diesem Produkt und enthält wichtige Hinweise zur Inbetriebnahme und Handhabung.
Lesen Sie auch die Bedienungsanleitung des Grundsets.
Beachten Sie immer alle Sicherheitshinweise. Sollten Sie Fragen haben oder unsicher in Bezug auf die Handhabung der Geräte sein, dann holen Sie den Rat eines Fachmannes ein.
Bewahren Sie diese Anleitung sorgfältig auf und geben Sie sie ggf. an Dritte weiter.

2. Bestimmungsgemäße Verwendung

Die Zusatz Funk-Überwachungskamera besteht aus der Kamera DW700K mit integriertem PIR-Bewegungsmelder und einem Netzgerät. Die Zusatzkamera ist ein optionales Zubehör zur Ergänzung eines DW700 oder DW500 Sets. Die Kamera dient zur Überwachung von Objekten (z.B. Räumen, Tür- und Eingangsbereichen, Einfahrten) mit Bild und Ton. Die Bild- und Tonübertragung der Kamera zum Empfänger erfolgt verschlüsselt im 2,4 GHz Frequenzbereich.
Die Spannungsersorgung der Kamera erfolgt über das mitgelieferte Netzgerät, angeschlossen an Netzspannung 230 V ~ AC, 50 Hz.
Bei ausreichenden Lichtverhältnissen wird ein Farbbild von der Kamera übertragen. Wird die Umgebungsbeleuchtung zu schwach, schaltet sich automatisch die integrierte Infrarotbeleuchtung ein. Hierbei wird der Nahbereich (bis zu max. 12 m) ausgeleuchtet und das Videobild schaltet für eine bessere Empfindlichkeit in den schwarz/weiß- Modus. Um die Überwachung bei Dunkelheit oder bei schlechten Lichtverhältnissen zu verbessern, sind die in der Kamera eingebauten Weißlicht-LED-Strahler automatisch nach Bewegungserkennung, nach Zeitplan oder manuell zuschaltbar. Die enthaltene Lichtquelle ist für die Bildaufnahme vorgesehen. Sie ist nicht für andere Anwendungen bestimmt. Die Kamera ist nicht zur Raumbeleuchtung im Haushalt geeignet.
Es können Bilder von bis zu vier Funk-Kameras DW700K am Empfänger empfangen werden. Die Kanäle können manuell einzeln oder automatisch in Sequenzen nacheinander angezeigt werden. Sie können auch gleichzeitig am zwei- oder viergeteilten Bildschirm betrachtet werden.
Die Funkübertragung erfolgt auf digitaler Basis auf immer wechselnden Frequenzen (Frequenzhopping), die zwischen Kamera und Empfänger synchronisiert sind. Jede Kamera kann nur an **einem** Empfänger angemeldet werden. Bei Anmeldung an einem anderen Empfänger verschwindet das Bild wieder vom ersten Empfänger. Nur der Empfänger, der mit der Kamera "gepaart" ist, kann die synchronisierten Signale empfangen. Hierdurch ist eine Abhörsicherheit gegeben.
Die Kamera ist wetterfest (Schutzart IP65) und somit sowohl zur Überwachung von Innenräumen, als auch zur Montage an einer geschützten Stelle im Außenbereich geeignet. Das Netzgerät muss jedoch vor Feuchtigkeit und Nässe geschützt werden. Die Kamera ist nicht geeignet für Umgebungen, in denen ein hoher Salz- oder Säuregehalt (z.B. Ammoniak in Ställen) in der Luft herrscht.
Die Kamera ist für den Betrieb in privaten Haushalten und für den Einsatz im Außenbereich konzipiert. Bitte beachten Sie die europäischen und landesspezifischen gesetzlichen Regelungen zu Videoüberwachung und Tonaufnahme, sofern Sie Bereiche außerhalb Ihrer Wohnung oder Ihres Grundstücks überwachen. Grundsätzlich sollte die Kamera zum Schutz der Privatsphäre anderer Personen so installiert werden, dass keine öffentlichen Bereiche, Straßen oder benachbarte Grundstücke überwacht werden können. Zudem sollten Besucher vor Betreten des Grundstücks auf die Videoüberwachung durch die Kamera hingewiesen werden. Eine Videoüberwachung ersetzt nicht Ihre Sorgfalts-, Vorsorge- oder Aufsichtspflicht.
Dieses Gerät ist nicht dafür bestimmt, durch Personen (einschließlich Kinder) mit eingeschränkten physischen, sensorischen oder geistigen Fähigkeiten oder mangels Erfahrung und/oder mangels Wissen benutzt zu werden, es sei denn, sie werden durch eine für ihre Sicherheit zuständige Person beaufsichtigt oder erhielten von ihr Anweisungen, wie das Gerät zu benutzen ist. Kinder müssen beaufsichtigt werden, um sicherzustellen, dass sie nicht mit dem Gerät spielen.
Jede andere Verwendung oder Veränderung des Gerätes gilt als nicht bestimmungsgemäß und birgt erhebliche Unfallgefahren. Der Hersteller haftet nicht für Schäden, die durch nicht bestimmungsgemäßen Gebrauch oder falsche Bedienung verursacht werden.

3. Lieferumfang

- Kamera DW700K mit Halterung und 3,2 m Anschlusskabel für Netzgerät
- Antenne
- Netzgerät 9 V DC mit 2,4 m Kabel
- Befestigungsmaterial
- Bedienungsanleitung

4. Technische Daten

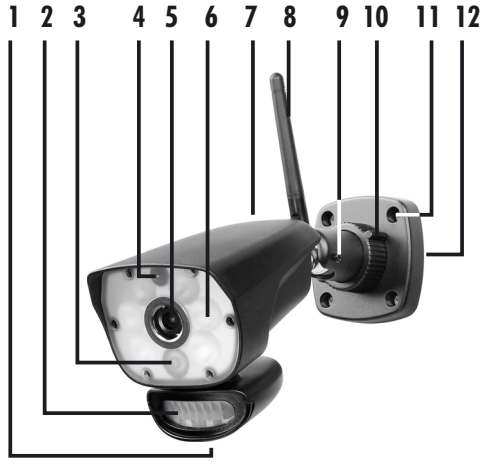
Kamera DW700K

Frequenzband	2400,0 - 2483,5 MHz
abgestrahlte maximale Sendeleistung	< 100 mW
Betriebsspannung	9 - 12 V ⎓ DC (Netzgerät)
Stromaufnahme	max. 1380 mA
Bildsensor	1/2,7" CMOS
Auflösung	max. 1920 x 1080 p
Objektiv	3,6 mm / F1.9
Erfassungswinkel	ca. 84° horizontal
Lichtempfindlichkeit	3,5 Lux (ohne IR-LEDs).
Dämmerungssensor	5-30 Lux (IR schaltet an)/ > 30 Lux (IR schaltet aus)
Ausleuchtung	1x Hochleistungs-LEDs, 6x Weißlicht-LED-Strahler (6 W)
Infrarotfilter	automatischer Austausch
Weitsicht bei Nacht	Hochleistungs-LED: max. 12 m Weißlicht-LED-Strahler: 500 Lumen, max. 25 m
Erfassungsbereich PIR-Bewegungsmelder:	6 m, max. 80 °
Mikrofon/ Lautsprecher	eingebaut
Kamerakabellänge	3,2 m
Schutzart	IP 65
Gehäuseabmessungen ohne Wandhalter:	81 x 94 x 127 mm
Betriebstemperatur	- 10° C bis + 40° C

Netzgerät

Modellkennung:	CS18J
Eingangsspannung:	230 V
Eingangswechselstromfrequenz:	50 Hz
Ausgangsspannung:	9,0 V
Ausgangsstrom:	2,0 A
Ausgangsleistung:	18,0W
Durchschnittliche Effizienz im Betrieb:	86,3 %
Effizienz bei geringer Last:	84,9 %
Leistungsaufnahme bei Nulllast:	0,10 W

5. Ausstattung

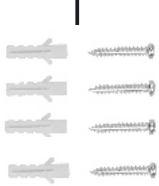


Kamera DW700K

1 Lautsprecher
2 Dämmerungssensor und PIR-Bewegungssensor
3 IR-Hochleistungs-LED
4 Mikrofon
5 Objektiv
6 Weißlicht-LED-Strahler
7 Paarungs-Taste
8 Antenne auf Antennenbuchse
9 Feststellschraube
10 Feststellring
11 Schraubenloch
12 Halterung

13

14



Zubehör

13 Netzgerät
14 Dübel und Schrauben

6. Sicherheitshinweise

Die folgenden Hinweise dienen Ihrer Sicherheit und Zufriedenheit beim Betrieb des Gerätes. Beachten Sie, dass die Nichtbeachtung dieser Sicherheitshinweise zu erheblichen Unfallgefahren führen kann.

⚠ **Gefahr!** Bei Nichtbeachtung dieses Hinweises werden Leben, Gesundheit und Sachwerte gefährdet.

- Lassen Sie Kleinkinder nicht unbeaufsichtigt mit dem Gerät, Verpackungsmaterial oder Kleinteilen! Andernfalls droht Lebensgefahr durch Ersticken!
- Beschädigen Sie bei Bohrarbeiten und beim Befestigen keine Leitungen für Gas, Strom, Wasser oder Telekommunikation! Andernfalls droht Lebens-, Verletzungsgefahr!
- Behandeln Sie die Zuleitungen vorsichtig! Verlegen Sie diese so, dass sie nicht beschädigt werden können und keine Stolpergefahr darstellen. Ziehen Sie die Kabel nicht über scharfe Kanten, und quetschen oder klemmen Sie sie nicht anderweitig ein. Andernfalls drohen Lebens- und Verletzungsgefahr!
- Achten Sie darauf, dass die Steckdose zur Versorgung der Kamera sich in deren Nähe befindet und leicht zugänglich ist, um die Kamera im Bedarfsfall schnell vom Netz trennen zu können.
- Achten Sie bei der Überwachung von Babys oder Kleinkindern darauf, dass die Kamera und das Kabel außer Reichweite des Kindes sind. Andernfalls drohen Lebens- und Verletzungsgefahr!
- Um Verletzungen vorzubeugen, befestigen Sie die Kamera zuverlässig gemäß den Montageanweisungen.
- Verhindern Sie, dass das Netzgerät mit Feuchtigkeit in Berührung kommt und tauchen Sie die Geräte nicht ins Wasser ein! Andernfalls droht Lebensgefahr!
- Betreiben Sie die Geräte ausschließlich mit den empfohlenen Netzgeräten. Vergewissern Sie sich vor dem Anschluss der Netzgeräte, dass die Spannung vorschriftsmäßig 230 V ~ AC, 50 Hz beträgt und mit einem Leitungsschutzschalter ausgestattet ist. Andernfalls droht Lebensgefahr und Brand!

- Setzen Sie die Kamera und das Netzgerät nicht der Nähe von Feuer, Hitze oder lang andauernder hoher Temperatureinwirkung aus!
- Schützen Sie die Geräte vor starken mechanischen Beanspruchungen und Erschütterungen!
- Schützen Sie die Geräte vor starken magnetischen oder elektrischen Feldern!
- Verwenden Sie das Gerät nur mit den gelieferten Originalteilen oder Originalzubehör!
- Überprüfen Sie vor dem Zusammenbau und der Inbetriebnahme die Lieferung auf Beschädigungen und Vollständigkeit!
- Trennen Sie bei längerem Nichtbenutzen der Kamera sie immer vom 230 V Netz.
- Schließen Sie kein beschädigtes Gerät (z.B. Transportschaden) an. Trennen Sie bei Beschädigungen die Kamera inklusive der Verkabelung sofort vom 230 V Netz! Lassen Sie Schäden sofort von einem Fachmann beheben. Ziehen Sie das Netzgerät aus der Steckdose. Andernfalls droht Lebensgefahr durch Stromschlag und Brand!
- Dieses System erzeugt und verwendet Funksignale. Wenn die Geräte nicht in Übereinstimmung mit der Anleitung installiert und betrieben werden, kann dies eine Störung anderer Geräte zur Folge haben, bzw. können diese durch andere Geräte gestört werden. Versuchen Sie solche Störungen zu vermeiden, indem Sie die Position der Geräte verändern.

7. Platzierung der Kamera

Bevor Sie die Kamera montieren, planen Sie zuerst deren Montagestelle. Überprüfen Sie von dort aus vor der Montage die Funktion der Kamera und die Funk-Übertragung.
Achten Sie auf folgende Punkte:

- Die Kamera sollte so angebracht werden, dass möglichst kein direktes Licht oder Sonneneinstrahlung auf das Objektiv fällt, ansonsten kann das Bild übersteuert werden. Denken Sie daran, dass die Position der Sonne nicht konstant ist. Überprüfen Sie am besten vor der Montage das Kamerabild. Nehmen Sie hierzu das Gerät in Betrieb und halten Sie die Kamera an die gewünschte Stelle. Verändern Sie bei Bedarf die Kameraposition, bis Sie den optimalen Bildausschnitt gefunden haben.
- Richten Sie die Kamera für die nächtliche Aufnahme nicht nach außen durch ein Glasfenster oder auf helle Gegenstände im Vordergrund, da hierbei das Bild durch Reflexion der Infrarotausleuchtung gestört wird.
- Wählen Sie den Abstand zwischen Kamera und Objekt je nach der gewünschten Detailerkennung aus.
- Wenn Sie automatische Aufnahmen durch Bewegungserkennung starten möchten, dann achten Sie darauf, dass im Erfassungsbereich des PIR-Bewegungssensors keine Hintergrundbewegung vorhanden ist wie z. B. Bäume, deren Äste sich im Wind bewegen können.
- Die Kamera besitzt eine Infrarotausleuchtung (eine Hochleistungs-LED) für den Nahbereich. Diese wird über den Dämmerungssensor geschaltet. Um die Überwachung bei Dunkelheit oder bei schlechten Lichtverhältnissen zu verbessern, sind die in der Kamera eingebauten Weißlicht-LED-Strahler automatisch nach Bewegungserkennung, nach Zeitplan oder manuell zuschaltbar.
- Achten Sie darauf, dass der Montageort der Kamera möglichst staub- und vibrationsfrei ist, und dass eine gute Luftzirkulation gegeben ist.
- Achten Sie darauf, dass sich in der Nähe der Kamera eine Steckdose befindet. Optional können Sie ein Verlängerungskabel verwenden (VKD-6M bzw. Unterputz-Netzgerät ORBIT-12/2000V, s. Kapitel 11 "Optionales Zubehör").
- Wollen Sie die Kamera (IP65) im Außenbereich montieren:
  - sollte der Montageort nach Möglichkeit vor direktem Regeneinfall geschützt sein - Regen direkt vor dem Objektiv kann eine Bewegungserkennung auslösen.
  - muss das Netzgerät im Außenbereich sein.
  - müssen die Steckerverbindungen zum Netzgerätkabel so geschützt werden, dass keine Nässe in die Verbindungen gelangen kann.
  - Achten Sie darauf, dass sich eine geeignete Durchführungsmöglichkeit für das Netzgerätekabel (und ggf. für das Antennenverlängerungskabel) am Montageort befindet.
  - Achten Sie darauf, dass die Kamera eine gute Funk-Verbindung zum Empfänger hat. Für eine bessere Verbindung kann die Antenne durch Verwendung eines Antennenverlängerungskabels auf der Wandinnenseite platziert werden (s. Kapitel „Optionales Zubehör").
- <u>Funkreichweite</u>
  Um Fehlfunktionen zu vermeiden, darf **pro Überwachungsort/ Haus/Wohnung nur ein Funk-System** installiert werden.
  Die maximale Reichweite der Funkübertragung beträgt ca. 150 m (bzw. bei optimalen Bedingungen bis zu 200m) bei Sichtkontakt zwischen Kamera und Empfänger. In Gebäuden ist die Reichweite durch Wände (insbesondere Stahlbeton-Wände) und Decken deutlich geringer (typisch ca. 20 m). Eine Garantie für diese Reichweite ist jedoch nicht möglich, da die örtlichen Gegebenheiten am Aufstellungsort diese negativ beeinflussen können. Eine Verschlechterung der Reichweite ist z.B. zu erwarten durch folgende Einflüsse:
  - Wände und Decken, insbesondere solche aus Stahlbeton oder Metall
  - Metallflächen z.B. Kühlschrank, Blechregale
  - Beschichtete Fenster (z.B. Energiespar-Fenster)
  - Heizkörper
  - Starke elektrische Felder und andere Funkgeräte, z. B. Mikrowellenherde, Funktelefone, Mobiltelefone, Funk-Geräte im 2,4 GHz Bereich, elektrische Motoren und 230 V Leitungen.
  - Geräte auf der gleichen oder benachbarten Funk-Frequenz (z.B. ein WLAN-System, Funk-Wetterstation, Funk-Thermostat), evtl. auch in der Nachbarschaft
  - Witterung (Regen, Nebel,Schneefall etc.)
  - größere Hindernisse im Außenbereich (z.B. Bäume)

  <u>Was können Sie für eine Verbesserung tun?</u>
  - Verwenden Sie bei der Montage ein optional erhältliches Antennenverlängerungskabel (s. Kapitel 18 "Optionales Zubehör"

der Bedienungsanleitung des Grundsets) und montieren Sie die Antenne [8] auf der Wandinnenseite.
- Achten Sie darauf, dass bei mehreren Kameras diese nicht zu nah beieinander montiert sind (idealerweise 2 m oder weiter auseinander).

Hinweis:
Falls ein schwarzer senkrechter Streifen im Bild zu sehen ist oder das Bild einen Rosa-Stich hat, klopfen Sie leicht auf das Gehäuse oder dunkeln Sie kurzzeitig mit der Hand die Kameravorderseite ab bzw. trennen Sie die Kamera kurzfristig vom Netz. Die Ursache des Streifens ist dass der automatische Filter-Schwenkmechanismus nicht ordnungsgemäß schaltet, was insbesondere durch falsche Orientierung bzw. durch Bewegen der Kamera verursacht wird.

8. Montage und Anschluss der Kamera

Die Kamera kann an der Wand oder an der Decke montiert werden.

- Befestigen Sie die Kamera über die Halterung [12] mit den mitgelieferten Schrauben [14] und ggf. Dübeln an einer geeigneten Stelle.
- Richten Sie die Kamera mittels der Feststellschrauben [9] und des Feststellringes [10] an der Halterung aus.
- **Drehen Sie die Antenne [8] fest auf die Antennenbuchse, sodass sie möglichst senkrecht nach oben steht.**
- Verbinden Sie den Kleinspannungsstecker des 9 V Netzgerätes [13] mit dem Netzgerät-Anschluss der Kamera.
- Stecken Sie das Netzgerät in eine geeignete Steckdose.

9. Verbindungsaufbau

Um das Bild der Zusatzkamera am Empfänger DW700M darzustellen, muss zuerst eine Funkverbindung zwischen beiden Geräten aufgebaut werden.

Um die Zusatzkamera (bis max. 3 Zusatzkameras) mit dem Empfänger zu verbinden, muss sich die Zusatzkamera in umittelbarer Nähe des Empfängers befinden. Die Verbindung wird wie folgt aufgebaut:

- Tippen Sie auf den Menü-Button ✤ am Empfänger-Bildschirm und dann auf [Allgemeine Einstellungen - Kamera-Einstellungen - Paarung].
- Wählen Sie einen der Kamerakanäle 2, 3 oder 4 aus.
- Sobald der Countdown von 30 Sekunden startet, halten Sie die Paarungs-Taste [7] an der Rückseite der Zusatzkamera für einige Sekunden gedrückt. War die Paarung erfolgreich, erscheint die Meldung "Paarung erfolgreich"und das Livebild der Kamera auf dem Bildschirm.

Hinweise:
- War die Paarung nicht erfolgreich, erscheint die Meldung "Keine Übereinstimmung". In diesem Fall positionieren Sie die Kamera näher am Empfänger, wenn sie vorher zu weit weg war.
- Jeder Kamerakanal, der erfolgreich mit einer Zusatzkamera gepaart wurde, wird automatisch aktiviert.
- Falls eine Kamera auf einen bereits belegten Kanal gepaart wird, wird dieser Kanal mit der neu angemeldeten Kamera überschrieben.

10. Wartung und Reinigung

- Die Geräte sind wartungsfrei: Öffnen Sie sie deshalb niemals.
- Überprüfen Sie regelmäßig die technische Sicherheit und die Funktion.
- Ziehen Sie vor der Reinigung das Netzgerät aus der Steckdose.
- Äußerlich dürfen die Geräte nur mit einem weichen, nebelfeuchten Tuch oder Pinsel gereinigt werden. Dies sollte ab und zu vor allem bei Kameras getan werden, da Schmutz das Sichtfeld einschränkt bzw. nachts Reflexionen verursachen kann (z. B. durch ein Spinnennetz).

11. Optionales Zubehör

- Antennenverlängerungskabel für Kamera inkl. Wandhalterung zur Durchführung durch die Wand und Montage im Gebäude:
  DWAK-3M, Länge 3 m, Dämpfung 2,4 dB, Art.Nr. 27902
  DWAK-6M, Länge 6 m, Dämpfung 4,8 dB, Art.Nr. 27903.
- VKD-6M Verlängerungskabel für Kamera-Netzgerät, Länge 6 m, Art. Nr. 27315.
- Anschlusskasten AK208, erleichtert die Montage und schützt die Anschlüsse, Art.Nr. 29298.
- Unterputznetzgerät ORBIT 12/2000V, Art.Nr. 32163.

12. Entsorgung

Die durchgestrichene Mülltonne bedeutet, dass Sie gesetzlich verpflichtet sind, diese Geräte einer vom unsortierten Siedlungsabfall getrennten Erfassung zuzuführen.

Die Entsorgung über die Restmülltonne oder die gelbe Tonne ist untersagt. Sie haben Altbatterien und Altakkumulatoren, die nicht vom Altgerät umschlossen sind, sowie Lampen, die zerstörungsfrei aus dem Altgerät entnommen werden können, vor der Abgabe an einer Erfassungsstelle vom Altgerät zerstörungsfrei zu trennen. Den zuständigen Recyclinghof bzw. die nächste Sammelstelle erfragen Sie bei Ihrer Gemeinde oder unter https://www.ear-system.de/ear-verzeichnis/sammel-und-ruecknahmestellen. Außerdem besteht die Möglichkeit der kostenfreien Rücknahme über Ihren Händler. Das Löschen eventuell vorhandener privater Daten vor der Entsorgung obliegt Ihnen als Nutzer.

13. Vereinfachte EU-Konformitätserklärung

CE

Hiermit erklärt INDEXA GmbH, dass der Funkanlagentyp DW700K der Richtlinie 2014/53/EU entspricht. Der vollständige Text der EU-Konformitätserklärung ist unter der folgenden Internetadresse verfügbar: https://www.indexa.de/ce.htm.

14. Fehlerbehebung

Zur Fehlerbehebung beachten Sie das Kapitel "Fehlersuche" in der Bedienungsanleitung des Grundsets.

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www.indexa.de Änderungen vorbehalten, Stand: 2024/03/04

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