

Zusatz Funk-Überwachungskamera DF400K-A

Bedienungsanleitung

1. Einleitung

Bitte 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 bitte sorgfältig auf und geben Sie sie ggf. an Dritte weiter.

2. Bestimmungsgemäße Verwendung

Die Zusatz Funk-Überwachungskamera besteht aus der Kamera DF400K und einem Netzgerät. Die Zusatzkamera ist ein optionales Zubehör zur Ergänzung des DF400 Sets. Es dient zur Überwachung von Objekten (z.B. Räumen, Tür- und Eingangsbereichen, Einfahrten) mit Bild und Ton. Die Bild- und Tonübertragung zum Smartrecorder erfolgt drahtlos mit einer Frequenz von 2,4 GHz.

Die Stromversorgung der DF400K erfolgt über das mitgelieferte Netzgerät, angeschlossen am Netzstrom 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. 14 m) ausgeleuchtet und das Videobild schaltet für eine bessere Empfindlichkeit in den schwarz/weiß- Modus. Um die Bildqualität bei Tag und Nacht zu optimieren, wird ein interner Filter mechanisch bei der Umschaltung ausgetauscht.

Ist eine Überwachung bei Dunkelheit oder bei schlechten Lichtverhältnissen erwünscht, so wird eine zusätzliche Beleuchtung empfohlen.

Es können Bilder von bis zu vier drahtlosen Kameras DF400K bzw. DF400K-A am Smartrecorder empfangen werden. Die Kanäle können manuell einzeln oder automatisch über eine Scan-Funktion nacheinander angewählt werden. Sie können auch gleichzeitig auf einem in Quadranten geteilten TV/Bildschirm betrachtet werden (mehrere Möglichkeiten zur Teilung vorhanden).

Die Funkübertragung erfolgt auf digitaler Basis auf immer wechselnden Frequenzen (Frequenzhopping) die zwischen Kamera und Smartrecorder synchronisiert sind. Nur der Smartrecorder, der mit der Kamera "gepaart" ist, kann die synchronisierten Signale empfangen. Hierdurch ist eine Abhörsicherheit gegeben.

Die Kamera ist wetterfest (Schutzart IP66) 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 Überwachungskamera ist für den Betrieb in privaten Haushalten konzipiert. Beachten Sie die Vorschriften bezüglich Videoüberwachung in gewerblichen und öffentlichen Bereichen. Eine Videoüberwachung ersetzt nicht Ihre Sorgfalts-, Vorsorge- oder Aufsichtspflicht.

Jede andere Verwendung oder Veränderung der Geräte gilt als nicht bestimmungsgemäß und birgt erhebliche Unfallgefahren. Der Hersteller haftet nicht für Schäden, die durch nicht bestimmungsgemäßen Gebrauch oder falsche Bedienung verursacht werden.

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.

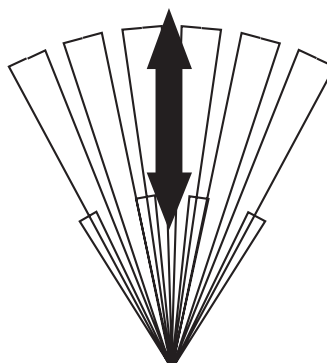
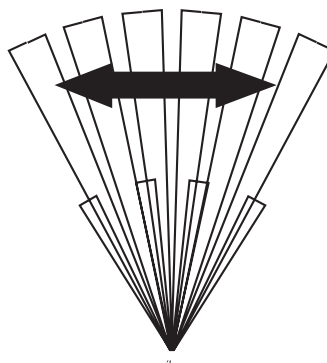
3. Lieferumfang (s. Abb. A)

- Kamera mit Anschlusskabel für Netzgerät
- Antenne
- Netzgerät 5V DC
- Kamerahalterung mit Befestigungsmaterial
- Bedienungsanleitung

4. Technische Daten

Kamera DF400K-A

Betriebsspannung	5 V \equiv DC (Netzgerät)
Stromaufnahme	max. 500 mA
Frequenzband	2400,0 - 2483,5 MHz
abgestrahlte maximale Sendeleistung	< 100 mW
Bildsensor	1/4" CMOS
Erfassungswinkel	ca. 55° horizontal, ca. 44° vertikal
Lichtempfindlichkeit	1 Lux (ohne IR-LEDs)
Dämmerungssensor	1-8 Lux
Ausleuchtung	6 Infrarot-LEDs
Infrarotfilter	automatischer Austausch
Weitsicht bei Nacht	max. 14 m
Mikrofon	eingebaut
Schutzklasse	IP 66
Abmessungen Gehäuse	123 x Ø 60 mm
Betriebstemperatur	- 10° C bis + 40° C

A**B**

Netzgerät


Betriebsspannung	230 V ~ 50 Hz
Ausgangsspannung	5 V == DC, 1,0 A

5. Ausstattung (s. Abb. A)

1	Bewegungssensor	6	Verbindungs-LED
2	Power-LED	7	Antenne
3	Infrarot-LEDs	8	Halterung
4	Dämmerungssensor	9	Feststellschraube
5	Objektiv	10	Antennenbuchse
16	Dübel	11	Buchse für Halterung
17	Netzgerät	12	Mikrofon
18	Schrauben	13	Dreiecksmutter
		14	Pairing-Taste
		15	Netzgerät-Anschluss

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 Erstickten!
- 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 bei der Überwachung von Babys oder Kleinkindern darauf, dass die Kamera und das Kabel außer Reichweite des Kindes sind. Andernfalls drohen Lebens- und Verletzungsgefahr!
- Verhindern Sie, dass das Netzgerät mit Feuchtigkeit in Berührung kommen und tauchen Sie das Gerät nicht ins Wasser ein! Andernfalls droht Lebensgefahr!
- Betreiben Sie das Gerät ausschließlich mit dem mitgelieferten Netzgerät. Vergewissern Sie sich vor dem Netzstromanschluss des Netzgerätes, dass der Netzstrom vorschriftsmäßig mit 230 V ~ AC, 50 Hz und mit einer vorschriftsmäßigen Sicherung ausgestattet ist.
- Setzen Sie das Gerät nicht der Nähe von Feuer, Hitze oder lang andauernder hoher Temperatureinwirkung aus!
- Schützen Sie das Gerät vor starken mechanischen Beanspruchungen und Erschütterungen!
- Schützen Sie das Gerät 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!
- Ziehen Sie bei längerem Nichtbenutzen des Gerätes immer das Netzgerät aus der Netzsteckdose.
- Schließen Sie kein beschädigtes Gerät (z.B. Transportschaden) an. Fragen Sie im Zweifelsfall Ihren Kundendienst. Reparaturen und Eingriffe an den Geräten dürfen nur von Fachkräften durchgeführt werden.

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.
- Wählen Sie den Abstand zwischen Kamera und Objekt je nach der gewünschten Detailerkennung aus.
- Die Kamera besitzt eine Infrarotausleuchtung für den Nahbereich. Diese wird über den Dämmerungssensor geschaltet. Durch eine zusätzliche Beleuchtung der Umgebung bei Nacht können Sie die Bildqualität der Kamera verbessern.
- Achten Sie darauf, dass der Montageort der Kamera und des Smartrecorders möglichst Staub- und vibrationsfrei ist, und dass eine gute Luftzirkulation gegeben ist.
- Achten Sie darauf, dass sich in der Nähe eine Netzsteckdose befindet.
- Wollen Sie die Kamera im Außenbereich montieren, sollte der Montageort nach Möglichkeit vor direktem Regeneinfall geschützt sein. Das Netzgerät muss im Innenbereich sein. Die Steckerverbindung zum Netzgerätkabel muss so geschützt werden, dass keine Nässe in die Verbindung gelangt.
- Achten Sie darauf, dass sich eine geeignete Durchführungs-möglichkeit für das Netzgerätkabel am Montageort befindet.
- Richten Sie die Kamera für die nächtliche Aufnahme nicht nach Außen durch ein Glasfenster, da hierbei das Bild durch Reflektion der Infrarotausleuchtung gestört wird.
- Wenn Sie automatische Aufnahmen durch Bewegungs-erkennung starten möchten, dann achten Sie darauf, dass im Kamerabild keine Hintergrundbewegung vorhanden ist wie z. B. Bäume, deren Äste sich im Wind bewegen können.
- Stellen Sie die Kamera so, dass die häufigste Bewegung quer zum Bewegungssensor [1] stattfindet. Querbewegungen werden schneller erfasst als Bewegungen direkt auf den Sensor zu (s. Abb. B). Montieren Sie die Kamera nicht in der Nähe von Heizkörpern oder Lüftungsschächten bzw. richten Sie sie nicht

darauf aus, da der Bewegungssensor auf Wärme reagiert.

- Die maximale Reichweite der Funkübertragung beträgt ca. 100 m (bzw. bei optimalen Bedingungen bis zu 150 m) bei Sichtkontakt zwischen Kamera und Smartrecorders. In Gebäuden ist die Reichweite durch Wände (insbesondere Stahlbeton-Wände) und Decken deutlich geringer (typisch ca. 20 m). Blechflächen z.B. Kühlschrank, Blechregale und bedampfte Spiegel schirmen auch die Funkübertragung ab.
- Die Funkübertragung kann durch starke elektrische Felder und andere Funkgeräte beeinträchtigt werden. Achten Sie auf ausreichende Entfernung zu: Mikrowellenherden, Funktelefonen, Handys, Funk-Geräten im 2,4 GHz Bereich, elektrischen Motoren und Starkstromleitungen.

8. Montage und Anschluss der Kamera

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

- Für die Wand- oder Deckenmontage befestigen Sie die Halterung [8] mit den mitgelieferten Schrauben [18] und ggf. Dübeln [16] an einer geeignete Stelle.
- Drehen Sie das Gewinde der Halterung in das entsprechende Gewinde [11] am Kameragehäuse.
- Richten Sie die Kamera aus und drehen Sie die seitliche Feststellschraube [9] an der Halterung sowie die Dreiecksmutter [13] fest.
- Drehen Sie die Antenne [7] auf die Antennenbuchse [10].
- Drehen Sie die Antenne bitte so, dass sie senkrecht nach oben steht.
- Verbinden Sie den Kleinspannungsstecker des Netzgerätes [17] mit dem Netzgerät-Anschluss [15] der Kamera.
- Stecken Sie das Netzgerät in eine geeignete Netzsteckdose.
- Die Power-LED [2] leuchtet rot auf.

9. Verbindungsaufbau

Die Zusatzkamera und der Smartrecorder DF400R müssen miteinander gepaart werden (Pairing), um eine Funkverbindung aufzubauen. Die im DF400 Set enthaltenen Kameras sind im Werk mit Kanal 1 und Kanal 2 des Smartrecorders bereits gepaart. Um die Zusatzkamera (bis max 2 Zusatzkameras) mit dem Smartrecorder zu verbinden, gehen Sie wie folgt vor:

- Wählen Sie im Hauptmenü "Paarung" [49] unter "Kameraeinstellungen" aus.
- Klicken Sie den Kamerakanal an, den Sie paaren möchten.
- Drücken Sie innerhalb von 35 Sekunden die Pairing-Taste [14] an der Kamera.

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.

11. 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.

12. Vereinfachte EU-Konformitätserklärung



Hiermit erklärt INDEXA GmbH, dass der Funkanlagentyp DF400K der Richtlinie 2014/53/EU entspricht. Der vollständige Text der EU-Konformitätserklärung ist unter der folgenden Internetadresse verfügbar: <https://www.indexa.de/ce.htm>

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