

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 DW500K mit integriertem PIR-Bewegungssensor und einem Netzgerät. Die Zusatzkamera ist ein optionales Zubehör zur Ergänzung der Sets DW500 und DW700. Sie dient zur Überwachung von Objekten (z.B. Räumen, Tür- und Eingangsbereichen, Einfahrten) mit Bild und Ton. Die Bild- und Tonübertragung zum Monitor erfolgt drahtlos mit einer Frequenz von 2,4 GHz.

Die Stromversorgung der DW500K erfolgt über das mitgelieferte Netzgerät, angeschlossen am Netzstrom 230V ~ 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 Bildqualität bei Tag und Nacht zu optimieren, wird ein interner Filter automatisch 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 DW500K am Monitor empfangen werden. Die Kanäle können manuell einzeln oder automatisch in Sequenzen nacheinander angewählt 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 Monitor synchronisiert sind. Nur der Monitor, 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 Überwachungskamera ist für den Betrieb in privaten Haushalten konzipiert. Beachten Sie die Vorschriften bezüglich Videoüberwachung und Tonaufnahme. 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 erhalten von ihr Anweisungen, wie das Gerät zu benutzen ist. Kinder müssen beaufsichtigt werden, um sicherzustellen, dass sie nicht mit dem Gerät spielen.

3. Lieferumfang

- Kamera DW500K mit Halterung und 3,2 m Anschlusskabel für Netzgerät
- Antenne
- Netzgerät 9 V DC
- Befestigungsmaterial
- Bedienungsanleitung

4. Technische Daten

Kamera DW500K

Funk-Frequenz:	2,4 GHz
Betriebsspannung	9V \equiv DC (Netzgerät)
Stromaufnahme	max. 530 mA
Bildsensor	1/2.7" 1080 p CMOS
Auflösung	max. 1920 x 1080 p
Objektiv	3,6 mm / F1.9 (IR cut Filter)
Erfassungswinkel	ca. 84° horizontal
Lichtempfindlichkeit	5 Lux (ohne IR-LEDs).
Dämmerungssensor	8-15 Lux (IR schaltet an) / > 15 Lux (IR schaltet aus)
Ausleuchtung	16 Infrarot-LEDs
Infrarotfilter	automatischer Austausch

Weitsicht bei Nacht	max. 12 m
Erfassungsbereich PIR-Bewegungsmelder	7 m, max. 50°
Mikrofon/ Lautsprecher	eingebaut
Kamerakabellänge	3,2 m
Schutzart	IP 65
Gehäuseabmessungen ohne Antenne	
und Sonnenschutz (mm)	128 x Ø 67
Betriebstemperatur	- 10° C bis + 40° C

Netzgerät

Betriebsspannung	230 V ~ 50 Hz
Ausgangsspannung	9V = DC, 0,6 A

5. Ausstattung

Kamera DW500K

- 1 Mikrofon
- 2 Dämmerungssensor
- 3 Infrarot-LEDs
- 4 Objektiv
- 5 PIR-Bewegungssensor
- 6 Paarungs-Taste
- 7 Feststellschrauben
- 8 Schraubenloch
- 9 Halterung
- 10 Kabelloch
- 11 Antenne
- 12 Antennenbuchse
- 13 Lautsprecher



Zubehör

- 14 Dübel
- 15 Netzgerät
- 16 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 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!
- 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 das Gerät ausschließlich mit dem mitgelieferten Netzgerät. Vergewissern Sie sich vor dem Spannungsanschluss des Netzgerätes, dass die Spannung vorschriftsmäßig mit 230 V ~ AC, 50 Hz und mit einer vorschriftsmäßigen Sicherung ausgestattet ist.
- 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.
- Setzen Sie das Gerät und das Netzgerät 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 Steckdose.
- 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. Trennen Sie bei Beschädigungen sofort die Netzstromversorgung! Ziehen Sie das Netzgerät aus der

Netzsteckdose. Andernfalls droht Lebensgefahr durch Stromschlag und Brand!

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 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, s. Kapitel "Optionales Zubehör").
- 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 Netzgerät-kabel muss so geschützt werden, dass keine Nässe in die Verbindung gelangen kann.
- Achten Sie darauf, dass sich eine geeignete Durchführungs-möglichkeit für das Netzgerät-kabel 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 Bewegungserkennung starten möchten, dann achten Sie darauf, dass im Erfassungsbereich des PIR-Bewegungssensors keine Hintergrund-bewegung vorhanden ist wie z. B. Bäume, deren Äste sich im Wind bewegen können.
- **Funkreichweite**
Die maximale Reichweite der Funkübertragung beträgt ca. 150 m (bzw. bei optimalen Bedingungen bis zu 200 m) bei Sichtkontakt zwischen Kamera und Monitor. 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
- Blechflächen z.B. Kühlschrank, Blechregale
- Beschichtete Fenster (z.B. Energiespar-Fenster), Heizkörper, Metallflächen
- Starke elektrische Felder und andere Funkgeräte, z. B. Mikrowellenherde, Funktelefone, Handys, Funk-Geräte im 2,4 GHz Bereich, elektrische Motoren und Starkstromleitungen.
- Geräte auf der gleichen oder benachbarten Funk-Frequenz (z.B. ein WLAN-System)

Was können Sie für eine Verbesserung tun?

- Verwenden Sie bei der Montage ein optional erhältliches Antennenverlängerungskabel (s. Kapitel "Optionales Zubehör") und montieren Sie die Antenne [11] auf der Wandinnenseite.

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 Netzstrom. Die Ursache des Streifens ist ein "Hänger" des Filter-Schwenkmechanismus, der insbesondere durch falsche Orientierung bzw. durch Bewegungen der Kamera verursacht wird.

8. Montage und Anschluss der Kamera

Die Kamera kann an der Wand oder an der Decke montiert werden (s. Abb. I und II).

- Befestigen Sie Kamera über die Halterung [9] mit den mitgelieferten Schrauben [16] und ggf. Dübeln [14] an einer geeigneten Stelle.
- Richten Sie die Kamera mittels der drei Feststellschrauben [7] an der Halterung aus.
- Drehen Sie die Antenne [11] auf die Antennenbuchse [12].
- Drehen Sie die Antenne so, dass sie möglichst senkrecht steht.
- Verbinden Sie den Kleinspannungsstecker des 9 V Netzgerätes [15] mit dem Netzgerät-Anschluss der Kamera.
- Stecken Sie das Netzgerät in eine geeignete Steckdose.

Hinweis:

Alternativ können Sie die Kamera über ein Unterputznetzgerät OTTO-9/1000 anschließen.

9. Verbindungsaufbau

Die Zusatzkamera und der Monitor DW500M müssen miteinander gepaart werden (Pairing), um eine Funkverbindung aufbauen zu können. Die im DW500 Set enthaltene Kamera ist bereits werkseitig mit Kanal 1 des Monitors gepaart. Um die Zusatzkamera (bis max. 3 Zusatzkameras) mit dem Monitor zu verbinden, gehen Sie wie folgt vor:

- Drücken Sie den Menü-Button  am Monitor-Bildschirm.
- Drücken Sie "Allgemeine Einstellungen".
- Drücken Sie "Kamera-Einstellung".

- Drücken Sie "Paarung".
- Wählen Sie einen der Kamerakanäle 2, 3 oder 4 aus.
- Sobald von "30" herunter gezählt wird, drücken Sie innerhalb dieser 30 Sekunden die Paarungs-Taste [6] an der Vorderseite der Zusatzkamera. War die Paarung erfolgreich, erscheint die Meldung "Paarung erfolgreich" und das Livebild der Kamera auf dem Bildschirm.

Hinweis:

War die Paarung nicht erfolgreich, erscheint die Meldung "Keine Übereinstimmung". In diesem Fall positionieren Sie die Kamera weiter weg vom Monitor, wenn Sie vorher zu nah am Monitor war bzw. positionieren Sie die Kamera näher am Monitor, wenn sie vorher zu weit weg vom Monitor war.

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 die Netzgeräte 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 den Kameras getan werden, da Schmutz das Sichtfeld einschränkt bzw. nachts Reflexionen verursachen kann (z. B. durch ein Spinnennetz).

11. Entsorgung



Entsorgen Sie Verpackungsmaterial oder Geräte nicht im Hausmüll, führen Sie sie der Wiederverwertung zu. Den zuständigen Recyclinghof bzw. die nächste Sammelstelle erfragen Sie bei Ihrer Gemeinde.

12. Vereinfachte EU-Konformitätserklärung



Hiermit erklärt INDEXA GmbH, dass der Funkalarmanlagentyp DW500K der Richtlinie 2014/53/EU entspricht. Der vollständige Text der EU-Konformitätserklärung ist unter der folgenden Internetadresse verfügbar:

http://www.indexa.de/w2/f_CE.htm.

13. Fehlerbehebung

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

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