



KBN and KBE Series Prepackaged Cameras



- ▶ General purpose, high performance, and Day/Night cameras
- ▶ Network and analog cameras
- ▶ Various lens options available
- ▶ Bilinx bi-directional communication
- ▶ Indoor or outdoor versions (Outdoor IP66, NEMA 4X enclosure rating)
- ▶ Camera and lens are pre-wired into a Bosch housing
- ▶ Plug and Play design includes feed through mount and 1.5 m (5 ft) of cabling
- ▶ Coax, Fiber, UTP, and IP outputs

The KBN and KBE Series Prepackaged Cameras are complete surveillance systems that include a camera and lens installed and pre-wired into a Bosch housing which includes a feed-through wall-mount.

All packages feature Bosch's signature line of Dinion, Dinion^{XF} or Dinion IP cameras. Each package offers choices of a varifocal lens to fit a wide range of surveillance applications. Outdoor models are enclosed in a Bosch housing with an IP66, NEMA 4X enclosure rating.

Dinion^{XF} Series offers 15-bit digital video processing, delivering unsurpassed picture performance under even the most difficult light and scene conditions in conjunctions with XF-Dynamic wide dynamic range, which reveals all of the details in ultra high-contrast scenes.

Dinion IP network cameras are designed to ensure the highest possible image quality at all times, providing DVD-like, high-quality MPEG-4 video, at up to 30 images per second. Dinion IP is a true hybrid camera with both Ethernet and BNC connections for network and analog video.

Each camera is equipped with Bosch's innovative Bilinx bi-directional communication for remote programming. Bilinx uses standard video cable to transmit alarm and status messages, providing superior performance and simplified installation.

The true advantage of the Bosch prepackaged cameras lie with the plug-and-play design. Installation is quick and easy, since these units include a factory-installed camera and lens with adjusted back-focus - all of which are pre-wired through the housing base. Coax and power cable (1 1/2 m or 5 ft) are fed through the included mount to the connection point.

Camera packages are also available with transmitters for sending video signals over fiber optic or unshielded twisted pair (UTP) cable.

Everything about the KBN and KBE Series Prepackaged Cameras, from the installer-friendly design, coupled with the Dinion and Dinion^{XF} Series Cameras and a wide range of options make the KBN and KBE Series Prepackaged cameras an ideal solution for every surveillance requirement.

Certifications and Approvals

Electromagnetic Compatibility (EMC)	Complies with FCC Part 15, ICES-003 and CE Regulations
Product Safety	Complies with CE Regulations, UL, CSA, EN and IEC Standards

Installation/Configuration Notes

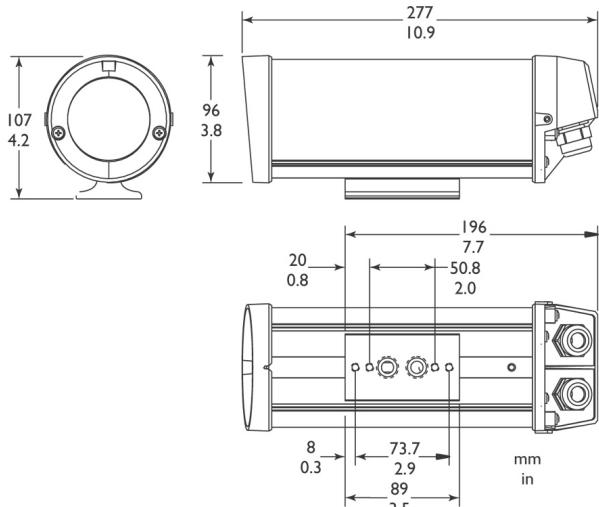


Figure 1: Indoor Models

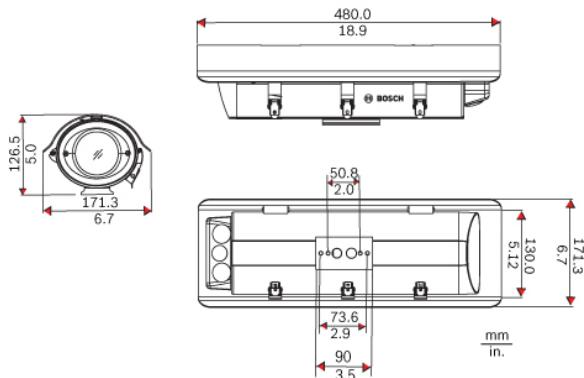


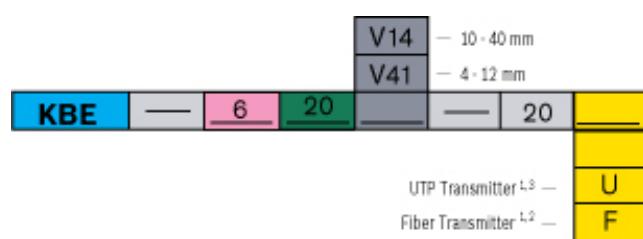
Figure 2: Outdoor Models

Ordering Guide

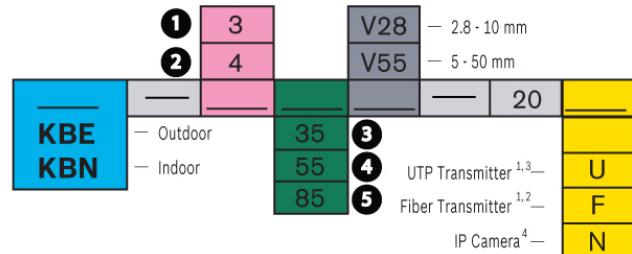
Use the following charts to create your order numbers.

Sample: KBE-495V75-20

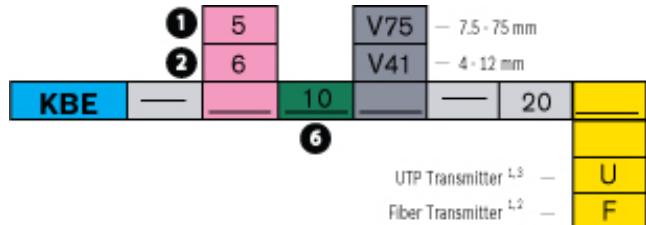
KBE	Prepackaged Outdoor Model
495	1/3 in. High Resolution Day/Night
V75	7.5-50 mm Varifocal Lens
20	24 VAC



1/2-inch Day/Night High Resolution Prepackaged Cameras

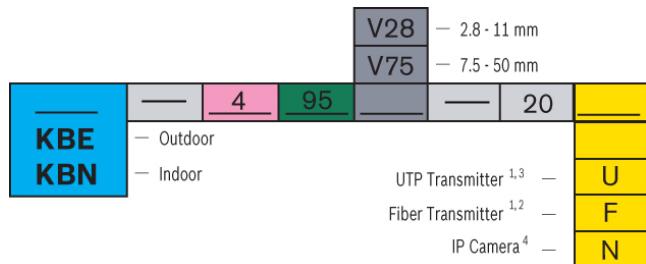


1/3-inch B&W and Color Prepackaged Cameras



1/2-inch B&W and Color Prepackaged Cameras

Number	Reference
1	Monochrome camera
2	Color camera
3	1/3 in. Standard resolution
4	1/3 in. High resolution
5	1/3 in. High resolution, high sensitivity
6	1/2 in. High resolution, high sensitivity



1/3-inch Day/Night High Resolution Prepackaged Cameras

NOTES

- 1 "U" and "F" options are available on 85, 95, 10, and 20 models only.
- 2 "F" option transmitters are compatible with Bosch LTC 4642/60 Fiber Receiver (requires 24 VAC).
- 3 "U" option transmitters are compatible with UTP Passive Receivers up to 750 ft distance; and UTP Active Receivers up to 3,000 ft distance.
- 4 "N" Option is available on the KBE outdoor versions of the 455 and 495 models only.

Technical Specifications

Cameras

Imager KBx-x35/55/85/95: Interline transfer CCD 1/3 in. format

KBx-510/610/620: Interline transfer CCD 1/2 in. format

Active Picture Elements (H x V)	Horizontal Resolution
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Monochrome

KBx-335	512 x 492	380 TVL
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KBx-355, KBx-385, KBx-510	582 x 494	570 TVL
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Color

KBx-435	510 x 494	330TVL
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KBx-455, KBx-485, KBx-610	768 x 492	540 TVL
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Day/Night

KBx-495, KBx-620	768 x 492	540 TVL
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Sensitivity (3200 K)

Full Video - lx	Usable Picture (50 IRE) - lx	Minimum Illumination - lx
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Monochrome

KBx-335	0.48 lx	0.12 lx	0.072 lx
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KBx-355	0.36 lx	0.09 lx	0.054 lx
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KBx-385	0.23 lx	0.031 lx	0.031 lx
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KBx-510	0.16 lx	0.021 lx	0.021 lx
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Color

KBx-435	1.6 lx	0.39 lx	0.3 lx 0.12 lx
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KBx-455 NightSense	2.6 lx	0.65 lx 0.26 lx	0.24 lx 0.10 lx
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KBx-485 NightSense	2.4 lx	0.59 lx 0.24 lx	0.18 lx 0.08 lx
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KBx-610 NightSense	1.4 lx	0.35 lx 0.14 lx	0.24 lx 0.038 lx
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Day/Night

KBx-495 Monochrome	2.4 lx	0.59 lx 0.08 lx	0.24 lx 0.038 lx
SensUp Color			0.024 lx
SensUp Monochrome			0.0038 lx

KBx-620 Monochrome	1.4 lx	0.31 lx 0.052 lx	0.18 lx 0.024 lx
SensUp Color			0.018 lx
SensUp Monochrome			0.0024 lx

Sensitivity Up (495, 620) Off, automatic continuous up to 10x

Synchronization

335/355/435/455	Line-lock, crystal-lock
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385/510/485/610	Line-lock, crystal-lock, Genlock
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495/620	Internal, line-lock, HV-lock, and Genlock (burst lock) selectable
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White Balance

335/355/385/510	N/A
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435/455	Auto (2500-9000)K
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485/610/495/620	ATW Auto (2500-9000)K, AWB Hold, manual WB
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Electronic Shutter

335/355/435/455	Automatic, 1/60 to 1/600,000 sec.
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385/510/485/610	Auto (1/60 to 1/500,000 sec.), fixed, flickerless, default
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495/620	Auto (1/60 to 1/500,000 sec.), fixed, flickerless, default
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AGC

335/355/435/455	21 dB (max.)
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385/510/485/610	28 dB (max.)
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495/620	Auto (maximum level selectable to 28 dB) or fixed level selectable
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Video Output

Signal-to-Noise	Composite video 1.0 Vp-p, 75 Ohm
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Ratio	> 50 dB
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XF-Dynamic (485, 495, 610, 620)

Range	32x dynamic range enhancement
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Dynamic Noise Reduction	Auto, Off selectable
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Contour	Sharpness enhancement level selectable
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BLC	Off, area and level selectable
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Gain	Auto (maximum level selectable to 28 dB) or fixed level selectable
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Connections

Video	Prewired 1.5 m (5 ft) coax with female BNC connector
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Power ²	1 mm ² (18 AWG), 3 conductor, 1 m (5 ft) wiring harness with flying leads (Brown/Blue-24 V, Green-Ground)
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“N” Models	Ethernet: 10/100 Base-T, auto sensing half/full duplex, RJ-45
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²Power supply input terminals are isolated from video output terminals.

UTP “U” Models

Receiver	UTP Passive Receivers up to 750 ft (NV-213A, NV-213 A-M) UTP Active Receivers(NV-652R) up to 3,000 ft
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Fiber Optic “F” Models

Receiver	Bosch LTC 4642/60 Fiber Receiver (requires 24 VAC)
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IP "N" Models

Video Standards	MPEG-4; M-JPEG Video
Data Rate	9.6 Kbps – 6 Mbps constant & variable
Video Resolution	704 x 576/480 (4CIF: 25/30 IPS) 704 x 288/240 (2CIF: 25/30 IPS) 352 x 576/480 (Half D1: 25/30 IPS) 352 x 288/240 (CIF: 25/30 IPS) 176 x 144/120 (QCIF: 25/30 IPS)
Select. Frame Rate	1-25/30IPS (PAL/NTSC); field/frame based coding
Network Protocols	RTP, Telnet, UDP, TCP, IP, HTTP, IGMP, ICMP
Software Update	Flash ROM, remote programmable
Configuration	Using web browser, built-in Web server interfaces

Power

KBN	12 to 28 VAC, 60 Hz, 5 W
KBE	21 to 28 VAC, 60 Hz, 45 W
"N" Models	PoE: IEEE 802.3af compliant (camera only; housing requires 40 W)

Mechanical**Housing**

Construction	Aluminum housing casing, neoprene gaskets, UV-resistant polymer end caps, and all stainless steel hardware
Finish	Gray
Window	3 mm (0.12 in.) Thick UV-stabilized polycarbonate
Mounting	Four (4), 8mm (5/16 in.) diameter fasteners (not included) are required for mounting
Dimensions	See figures 1 and 2
Weight (approx.)	Indoor model: 2.85 kg (6.28 lb) Outdoor model: 4.1 kg (9.04 lb)

Feed-through Mount

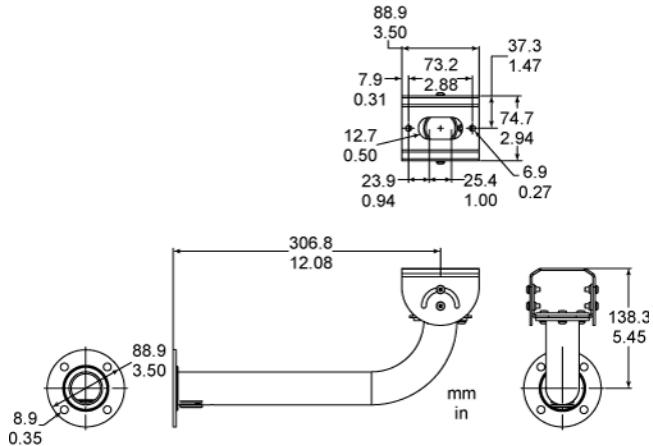
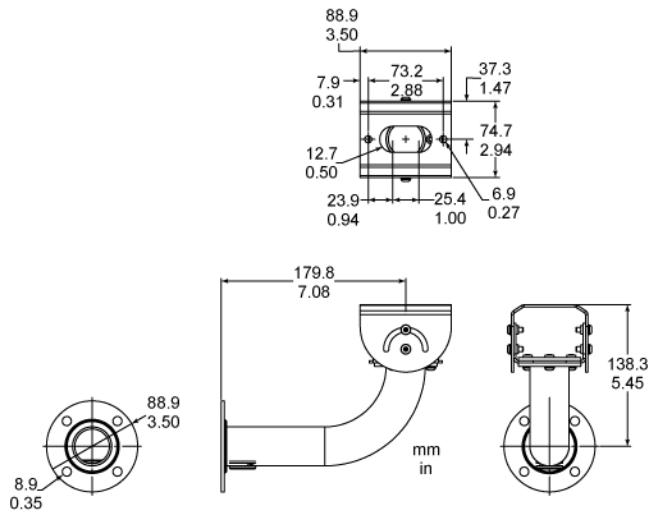
Max Load	9 kg (20 lb)
Size	30 cm (12 in.)
Weight	0.4 kg (0.9 lb)

Environmental - Outdoor Models

Operating Temperature	External temperature -40°C to 50°C (-40°F to 122°F) Internal temperature -20°C and 55°C (-4°F to 131°F)
"N" models	External temperature -40°C to 46°C (-40°F to 116°F)
Humidity	0% to 93% relative, non-condensing
Enclosure Protection	IP66, NEMA-4X

Accessories

Heater/Blower	Included (outdoor models only)
Sunshield	Included (outdoor models only)
Wall Mount	Included
Pole Mount Adapter	LTC 9213/01

Outdoor**Indoor****Ordering Information**

KBE-335V28-20 B/W Unity Camera	KBE-335V28-20
KBE-355V55-20 B/W Unity Camera	KBE-355V55-20
KBE-355V28-20 B/W Unity Camera	KBE-355V28-20
KBE-355V55-20 B/W Unity Camera	KBE-355V55-20
KBE-385V28-20 B/W Unity Camera	KBE-385V28-20
KBE-385V28-20F B/W Unity Camera, Fiber Optic	KBE-385V28-20F
KBE-385V28-20U B/W Unity Camera, UTP	KBE-385V28-20U
KBE-385V55-20 B/W Unity Camera	KBE-385V55-20

Ordering Information	
KBE-385V55-20F B/W Unity Camera, Fiber Optic	KBE-385V55-20F
KBE-385V55-20U B/W Unity Camera, UTP	KBE-385V55-20U
KBE-435V28-20 Color Unity Camera	KBE-435V28-20
KBE-435V55-20 Color Unity Camera	KBE-435V55-20
KBE-455V28-20 Color Unity Camera	KBE-455V28-20
KBE-455V28-20N IP Unity Camera	KBE-455V28-20N
KBE-455V28-20 Color Unity Camera	KBE-455V28-20
KBE-455V55-20N IP Unity Camera	KBE-455V55-20N
KBE-485V28-20 Color Unity Camera	KBE-485V28-20
KBE-485V28-20F Color Unity Camera, Fiber Optic	KBE-485V28-20F
KBE-485V28-20U Color Unity Camera, UTP	KBE-485V28-20U
KBE-485V55-20 Color Unity Camera	KBE-485V55-20
KBE-485V55-20F Color Unity Camera, Fiber Optic	KBE-485V55-20F
KBE-485V55-20U Color Unity Camera, UTP	KBE-485V55-20U
KBE-495V28-20 Day/Night Unity Camera	KBE-495V28-20
KBE-495V28-20F Day/Night Unity Camera, Fiber Optic	KBE-495V28-20F
KBE-495V28-20N IP Day/Night Unity Camera	KBE-495V28-20N
KBE-495V28-20U Day/Night Unity Camera, UTP	KBE-495V28-20U
KBE-495V75-20 Day/Night Unity Camera	KBE-495V75-20
KBE-495V75-20F Day/Night Unity Camera, Fiber Optic	KBE-495V75-20F
KBE-495V75-20N IP Day/Night Unity Camera	KBE-495V75-20N
KBE-495V75-20U Day/Night Unity Camera, UTP	KBE-495V75-20U
KBE-510V41-20 B/W Unity Camera	KBE-510V41-20
KBE-510V41-20F B/W Unity Camera, Fiber Optic	KBE-510V41-20F
KBE-510V41-20U B/W Unity Camera, UTP	KBE-510V41-20U
KBE-510V75-20 B/W Unity Camera	KBE-510V75-20
KBE-510V75-20F B/W Unity Camera, Fiber Optic	KBE-510V75-20F
KBE-510V75-20U B/W Unity Camera, UTP	KBE-510V75-20U
KBE-610V41-20 Color Unity Camera	KBE-610V41-20
KBE-610V41-20F Color Unity Camera, Fiber Optic	KBE-610V41-20F
KBE-610V41-20U Color Unity Camera, UTP	KBE-610V41-20U
KBE-610V75-20 Color Unity Camera	KBE-610V75-20
KBE-610V75-20F Color Unity Camera, Fiber Optic	KBE-610V75-20F

Ordering Information	
KBE-610V75-20U Color Unity Camera, UTP	KBE-610V75-20U
KBE-620V14-20 Day/Night Unity Camera	KBE-620V14-20
KBE-620V14-20F Day/Night Unity Camera, Fiber Optic	KBE-620V14-20F
KBE-620V14-20U Day/Night Unity Camera, UTP	KBE-620V14-20E
KBE-620V41-20 Day/Night Unity Camera	KBE-620V41-20
KBE-620V41-20F Day/Night Unity Camera, Fiber Optic	KBE-620V41-20F
KBE-620V41-20U Day/Night Unity Camera, UTP	KBE-620V41-20U
KBN-335V28-20 Indoor B/W Unity Camera	KBN-335V28-20
KBN-335V55-20 Indoor B/W Unity Camera	KBN-335V55-20
KBN-355V28-20 Indoor B/W Unity Camera	KBN-355V28-20
KBN-355V55-20 Indoor B/W Unity Camera	KBN-355V55-20
KBN-385V28-20 Indoor B/W Unity Camera	KBN-385V28-20
KBN-385V55-20 Indoor B/W Unity Camera	KBN-385V55-20
KBN-435V28-20 Indoor Color Unity Camera	KBN-435V28-20
KBN-435V55-20 Indoor Color Unity Camera	KBN-435V55-20
KBN-455V28-20 Indoor Color Unity Camera	KBN-455V28-20
KBN-455V55-20 Indoor Color Unity Camera	KBN-455V55-20
KBN-485V28-20 Indoor Color Unity Camera	KBN-485V28-20
KBN-485V55-20 Indoor Color Unity Camera	KBN-485V55-20
KBN-495V28-20 Indoor Day/Night Unity Camera	KBN-495V28-20
KBN-495V75-20 Indoor Day/Night Unity Camera	KBN-495V75-20

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