

DINION 7100i IR













Reliable. Precise. Robust.



Specifications

DINION 7100i IR - X Series

		 lens		 starlight	 HDR	 intelligent IR	 Electronic Image Stabilization	 IVA Pro Buildings	 IVA Pro Perimeter	 IVA Pro Traffic
2MP	1/1.8" sensor	4.7 - 10 mm 10.5 - 47 mm	60 fps	starlight X	HDR X	80m (w) /120m(T)*	●	●	●	Optional (with license)
4MP	1/1.8" sensor	4.7 - 10 mm 10.5 - 47 mm	60 fps	starlight X	HDR X	80m (w) /120m(T)*	●	●	●	Optional (with license)
8MP	1/1.2" sensor	5.9 - 13 mm	30 fps	starlight X	HDR X	80m (w)	●	●	●	Optional (with license)
DINION 7100i IR										
8MP	1/1.8" sensor	4.4 - 10 mm 12 - 38 mm	30 fps	starlight	HDR	80m (w) /120m(T)*	●	●	●	Optional (with license)

* optional: invisible IR or white light

Intelligent Video Analytics Pro (IVA Pro) for reliable detection and precise classification

IVA Pro Buildings



Accurate detection and classification



Plug-and-play (no calibration needed)

IVA Pro Perimeter



Highly reliable long-distance intrusion detection



Professional* intruder detection

IVA Pro Traffic



Distinguish and classify people and vehicle subclasses



Enhanced scene understanding

Robust design for harsh environments



High impact resistant (IK10)



Shock and vibration resistant (NEMA TS2)



Corrosion and environment resistant (ISO14993, NEMA 4X, IP66, IP 67)

*partly obstructed / crawling / rolling intruder

Invented for life

DINION 7100i IR

Equipped with Intelligent Video Analytics Pro (IVA Pro) – an expert suite of video analytics that delivers valuable insights for improved efficiency, simplicity, security, and safety.

A reliable way to enhance perimeter security



The Bosch DINION 7100i IR cameras deliver most reliable long-range detection in low light, and even zero lux environments, thanks to the built-in video analytics, exceptional imaging and robust design.

- The IVA Pro Perimeter comes free and pre-installed in the DINION 7100i and is highly sensitive to directed motion. Professional intruders who roll, crawl, or camouflage themselves in an attempt to breach fencing, entryways, or runways are detected, while false triggers are minimized.
- The exceptional imaging allows to capture objects in low-light scenes and challenging lighting conditions – even zero lux thanks to outstanding low light sensitivity and dynamic range with starlight X and HDR X technology, and built-in intelligent IR (up to 120m).
- The robust design resists shocks, vibration and corrosion, so you can minimize replacements and save costs.

A smart choice for traffic monitoring



When IVA Pro Traffic is licensed, the DINION 7100i cameras provide actionable insights for improving the efficient use of roadways and the safety of people and vehicles.

- The IVA Pro Traffic offers reliable detection and subclassification of vehicles such as cars, bicycles, buses, motorcycles, and trucks and delivers accuracy levels beyond 95 percent in vehicle counting.
- It can accurately detect and classify pedestrians, even in crowded scenes
- Maps objects with pinpoint accuracy (delivers metadata such as speed and geolocation).
- Ignores potential disturbances caused by vehicle headlights or shadows, extreme weather, sun reflections, and shaking cameras.
- Captures excellent images, critical for forensic search or analytics, thanks to starlight X technology and intelligent IR for low light or zero lux conditions, and HDR X to eliminate motion-related artefacts and blur.

IP Video Fixed Cameras

►DINION 7100i IR

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►DINION 7100i IR



■ Available – Not available

► = indication of main differentiator(s)

Commercial Type Number		NBE-7702-ALX	NBE-7702-ALXT	NBE-7703-ALX	NBE-7703-ALXT
Bitrate management	Intelligent Dynamic Noise Reduction	–	–	–	–
	Intelligent streaming	■	■	■	■
	Compression (H.265 / H.264 & MJPEG) / multi-streaming	■/■/4 streams	■/■/4 streams	■/■/4 streams	■/■/4 streams
Basic features	Maximum resolution ►	HD 1080p	HD 1080p	4MP	4MP
	Image sensor type	1/1.8"	1/1.8"	1/1.8"	1/1.8"
	Max. frames per second (fps)	60	60	60	60
	Indoor / outdoor	Indoor/outdoor	Indoor/outdoor	Indoor/outdoor	Indoor/outdoor
	Day / night	■	■	■	■
	Wide Dynamic Range (WDR) ►	144dB HDR X		144dB HDR X	
	ONVIF conformant	■	■	■	■
	Built-in microphone	–	–	–	–
Advanced features	Intelligent Auto Exposure / Intelligent Defog	--	--	--	--
	Privacy masking	■	■	■	■
	Region Of Interest tracking	–	–	–	–
	Upright video mode	■	■	■	■
Analytics	Intelligent Video Analytics Pro (IVA Pro) Buildings / Perimeter	■/■	■/■	■/■	■/■
	IVA Pro Traffic	Optional (with license)	Optional (with license)	Optional (with license)	Optional (with license)
Alarm triggering	Tamper detection / Video motion detection	■/■	■/■	■/■	■/■
	Built-in video analytics	■	■	■	■
	Audio detection	■	■	■	■
Sensitivity	Minimum illumination day mode (color) ►	0.0061 lux	To be announced	0.0078 lux	To be announced
	Minimum illumination night mode (black / white) ►	0.0010 lux / 0 lux with IR	To be announced	0.0011 lux / 0 lux with IR	To be announced
	Night vision	■ 850nm IR default, optional 940nm invisible IR or white light	■ 850nm IR default, optional 940nm invisible IR or white light	■ 850nm IR default, optional 940nm invisible IR or white light	■ 850nm IR default, optional 940nm invisible IR or white light
	Max. range at night ►	80m (default)	120m (default)	80m (default)	120m (default)
Lens	Automatic varifocal	■ (P-iris)	■ (P-iris)	■ (P-iris)	■ (P-iris)
	Focal length ►	4.7 - 10 mm	10.5 - 47 mm	4.7 - 10 mm	10.5 - 47 mm
	Horizontal Angle of View (H AoV) ►	103 - 48°	41.6 - 9.3°	103 - 48°	41.6 - 9.3°
DORI distances	Detect / Observe / Recognize / Identify (m) ► (Distances in according to EN-IEC 62676-4 standard)	30-86/12-34/6-17/3-9	101-472/40-187/20-94/10-47	42-101/17-40/8-20/4-10	141-661/56-262/28-132/14-66
Storage	Industrial SD card support with health monitoring	■ (2 slots)	■ (2 slots)	■ (2 slots)	■ (2 slots)
	Cloud application storage	Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting	Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting	Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting	Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting
Connections	Alarm input / output	4x virtual input	4x virtual input	4x virtual input	4x virtual input
	Audio in / out	■/■	■/■	■/■	■/■
	Hybrid / public view monitor	–	–	–	–
Housing	Weather rating	IP66/ IP67/IP6K9K	IP66/ IP67/IP6K9K	IP66/ IP67/IP6K9K	IP66/ IP67/IP6K9K
	Vandal resistant	IK10	IK10	IK10	IK10
	Operating temperature	-50° to +60° C (-58° to +140° F)	-50° to +60° C (-58° to +140° F)	-50° to +60° C (-58° to +140° F)	-50° to +60° C (-58° to +140° F)
Power input voltage	Power over Ethernet / 12V / 24V	■/■/■	■/■/■	■/■/■	■/■/■
Accessories	Modular mount compatible	■	■	■	■

IP Video

Fixed Cameras

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■ Available – Not available

► = indication of main differentiator(s)

Commercial Type Number		NBE-7704-ALX	NBE-7704-ALT	NBE-7704-AL
Bitrate management	Intelligent Dynamic Noise Reduction	-	-	-
	Intelligent streaming	■	■	■
	Compression (H.265 / H.264 & MJPEG) / multi-streaming	■/■/4 streams	■/■/4 streams	■/■/4 streams
Basic features	Maximum resolution	8MP	8MP	8MP
	Image sensor type ►	1/1.2"	1/1.8"	1/1.8"
	Max. frames per second (fps)	30	30	30
	Indoor / outdoor	Indoor/outdoor	Indoor/outdoor	Indoor/outdoor
	Day / night	■	■	■
	Wide Dynamic Range (WDR) ►	To be announced	To be announced	120dB HDR
	ONVIF conformant	■	■	■
	Built-in microphone	-	-	-
Advanced features	Intelligent Auto Exposure / Intelligent Defog	-/-	-/-	-/-
	Privacy masking	■	■	■
	Region Of Interest tracking	-	-	-
	Upright video mode	■	■	■
Analytics	Intelligent Video Analytics Pro (IVA Pro) Buildings / Perimeter	■/■	■/■	■/■
	IVA Pro Traffic	Optional (with license)	Optional (with license)	Optional (with license)
Alarm triggering	Tamper detection / Video motion detection	■/■	■/■	■/■
	Built-in video analytics	■	■	■
	Audio detection	■	■	■
Sensitivity	Minimum illumination day mode (color)	To be announced	To be announced	To be announced
	Minimum illumination night mode (black / white)	To be announced	To be announced	To be announced
	Night vision	■ 850nm IR default, optional 940nm invisible IR or white light	■ 850nm IR default, optional 940nm invisible IR or white light	■ 850nm IR default, optional 940nm invisible IR or white light
	Max. range at night ►	80m (default)	120m (default)	80m (default)
Lens	Automatic varifocal	■ (P-iris)	■ (P-iris)	■ (P-iris)
	Focal length ►	5.9 - 13 mm	12 - 38 mm	4.4 - 10 mm
	Horizontal Angle of View (HAoV) ►	To be announced	To be announced	108 - 44°
DORI distances	Detect / Observe / Recognize / Identify (m) ► (Distances in according to EN-IEC 62676-4 standard)	To be announced	To be announced	55-190/22-75/11-38/5-19
Storage	Industrial SD card support with health monitoring	■ (2 slots)	■ (2 slots)	■ (2 slots)
	Cloud application storage	Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting	Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting	Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting
Connections	Alarm input / output	4x virtual input	4x virtual input	4x virtual input
	Audio in / out	■/■	■/■	■/■
	Hybrid / public view monitor	-	-	-
Housing	Weather rating	IP66/ IP67/IP6K9K	IP66/ IP67/IP6K9K	IP66/ IP67/IP6K9K
	Vandal resistant	IK10	IK10	IK10
	Operating temperature	-50° to +60° C (-58° to +140° F)	-50° to +60° C (-58° to +140° F)	-50° to +60° C (-58° to +140° F)
Power input voltage	Power over Ethernet / 12V / 24V	■/■/■	■/■/■	■/■/■
Accessories	Modular mount compatible	■	■	■