

# Advantage Line Quick Selection Guide

## IP Cameras

### Advantage Line

#### ► HD

#### ► Fixed & MiniDome

#### ► Infrared

		 HD Onvif	 HD Onvif	 Onvif	 Onvif	 Onvif	 Onvif
		<b>NBC-265-P</b>	<b>NDC-265-P</b>	<b>NBC-225-P (1) NBC-255-P (2)</b>	<b>NDC-225-P (1) NDC-255-P (2)</b>	<b>NTC-255-PI</b>	<b>NDC-225-PI</b>
<b>Imaging</b>	Camera Type	Indoor	Indoor	Indoor	Indoor	Outdoor	Indoor
	Image Sensor Type	1/4" CMOS	1/4" CMOS	1/4" CMOS	1/4" CMOS	1/4" CMOS	1/4" CMOS
	Day/Night	–	–	–	–	Yes	Yes
	WDR	–	–	–	–	–	–
	IR Sensitive	–	–	–	–	Yes	Yes
	Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes
	Privacy Zones	–	–	–	–	–	–
	LEDs	–	–	–	–	32 @ 850 nm	32 @ 940 nm
<b>Max. Resolution</b>	Color	HD 720p (1280 x 720)	HD 720p (1280 x 720)	VGA (640 x 480)	VGA (640 x 480)	VGA (640 x 480)	VGA (640 x 480)
	B/W	–	–	–	–	–	–
<b>Min. Illumination</b>	Color	1.0 lux	1.0 lux	1.0 lux	1.0 lux	1 lux (IR off)	1.0 lux
	B/W	–	–	–	–	0 lux (IR on)	0 lux (IR on)
<b>Lens</b>		2.8 - 8 mm DC Auto-iris	2.7 - 9 mm DC Auto-iris	4 mm Fixed (1) 2.8 - 10 mm Auto-iris (2)	4 mm Fixed (1) 2.8 - 10 mm Auto-iris (2)	3.7 - 10 mm DC Auto-iris	4 mm Fixed
<b>Night Vision / Infrared Range</b>		–	–	–	–	82 ft	50 ft
<b>Output Connection</b>		Ethernet, RJ45	Ethernet, RJ45	Ethernet, RJ45	Ethernet, RJ45	Ethernet, RJ45	Ethernet, RJ45
<b>Storage</b>		SD Card	microSD Card	SD Card	microSD Card	–	microSD Card
<b>Environment</b>	Operating Temperature	32° to 122° F	14° to 122° F	32° to 122° F	14° to 122° F	–4° to 131° F	14° to 113° F
	All-weather Rating	–	–	–	–	IP66	–
	Vandal Resistant	–	–	–	–	–	–
<b>Power</b>	Max. Consumption	3.36 W	4.1 W	3.36 W	4.1 W	6 W	6.6 W
	Supply	+12 VDC or PoE	+12 VDC or PoE	+12 VDC or PoE	+12 VDC or PoE	+12 VDC or PoE	+12 VDC or PoE

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## Analog Cameras



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Advantage Line

▶ PTZ

▶ Mini Bullet

▶ Indoor MiniDome

▶ Outdoor MiniDome

								
		VEZ-400	VTC-204-F03-4	VTC-206F03-4	VDC-250F04-20	VDC-260V04-20	VDC-240V03-2	VDN-240V03-2
<b>Imaging</b>	Camera Type	Indoor / Outdoor	Indoor / Outdoor	Indoor / Outdoor	Indoor	Indoor	Outdoor	Outdoor
	Image Sensor Type	1/4" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD
	Day/Night	Yes	—	—	Yes	Yes	—	Yes
	WDR	Yes	—	—	—	—	—	—
	IR Sensitive	—	—	—	Yes	Yes	—	Yes
	Motion Detection	—	—	—	4 Zones	4 Zones	4 Zones	4 Zones
	Privacy Zones	15 Zones	—	—	4 Zones	4 Zones	4 Zones	4 Zones
	LEDs	—	—	—	—	—	—	—
<b>Max. Resolution</b>	Color	600 TVL (976 x 582)	380 TVL	600 TVL	540 TVL	540 TVL	540 TVL	540 TVL
	B/W	—	—	—	580 TVL	580 TVL	n/a	580 TVL
<b>Min. Illumination</b>	Color	0.2 lux	0.5 lux	0.1 lux	0.15 lux	0.15 lux	0.05 lux	0.05 lux
	B/W	0.001 lux	—	—	0.05 lux	0.05 lux	n/a	0.005 lux
<b>Lens</b>		3.5 - 104 mm 26x optical zoom 10x digital zoom	3.6 mm Fixed	3.6 mm Fixed	3.8 mm Fixed	3.8 - 9.5 mm DC Iris	2.8 - 10.5 mm Auto-iris	2.8 - 10.5 mm Auto-iris
<b>Night Vision / Infrared Range</b>		—	—	—	—	—	n/a	n/a
<b>Output Connection</b>		BNC Connector	BNC Connector	BNC Connector	BNC Connector	BNC Connector	BNC Connector	BNC Connector
<b>Storage</b>		—	—	—	—	—	—	—
<b>Environment</b>	Operating Temperature	-40° to 122° F*	14° to 122° F	14° to 122° F	14° to 122° F	14° to 122° F	14° to 122° F	14° to 122° F
	All-weather Rating	IP66	IP67	IP67	—	—	IP66	IP66
	Vandal Resistant	Yes	—	—	—	—	Yes	Yes
<b>Power</b>	Max. Consumption	20 W, 43 W**	3.6 W	3.6 W	3.8 W	3.8 W	3.6 W	3.6 W
	Supply	24 VAC	12 VDC	12 VDC	24 VAC, 12 VDC	24 VAC, 12 VDC	24 VAC, 12 VDC	24 VAC, 12 VDC

\* Heater works automatically from -40° to 50° F

\*\* Heater on

# Advantage Line Quick Selection Guide

## Analog Infrared Cameras

► IR Dome

► IR Bullet

							
		VDI-240V03-2	VDI-245V03-2	VTI-214F04-4	VTI-216V04-2	VTI-218V03-2	VTI-220V05-2
<b>Imaging</b>	Camera Type	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor
	Image Sensor Type	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD
	Day/Night	Yes	Yes	Yes	Yes	Yes	Yes
	WDR	—	—	—	—	—	—
	IR Sensitive	Yes	Yes	Yes	Yes	Yes	Yes
	Motion Detection	4 Zones	64 Zones	—	—	64 Zones	64 Zones
	Privacy Zones	4 Zones	4 Zones	—	—	4 Zones	4 Zones
	LEDs	20 @ 850 nm	18 @ 850 nm	30 @ 850 nm	18 @ 850 nm	18 @ 850 nm	30 @ 850 nm
<b>Max. Resolution</b>	Color	540 TVL	540 TVL	380 TVL	520 TVL	540 TVL	540 TVL
	B/W	580 TVL	540 TVL	380 TVL	520 TVL	540 TVL	540 TVL
<b>Min. Illumination</b>	Color	0.05 lux	—	—	—	—	—
	B/W	0 lux (IR on)	0 lux (IR on)	0 lux (IR on)	0 lux (IR on)	0 lux (IR on)	0 lux (IR on)
<b>Lens</b>		3.8 - 9.5 mm	2.8 - 12 mm	4 mm	3.8 - 9.5 mm	2.8 - 12 mm	5 - 50 mm
		Auto-iris	Auto-iris	Fixed	DC Auto-iris	DC Auto-iris	DC Auto-iris
<b>Night Vision / Infrared Range</b>		65 ft	60 ft	49 ft	66 ft	66 ft	150 ft
<b>Output Connection</b>		BNC Connector	BNC Connector *	BNC Connector	BNC Connector	BNC Connector	BNC Connector
<b>Storage</b>		—	—	—	—	—	—
<b>Environment</b>	Operating Temperature	14° to 122° F	-22° to 131° F	-22° to 122° F	-22° to 131° F	-22° to 122° F	-22° to 133° F
	All-weather Rating	IP66	IP66	IP67	IP67	IP66	IP66
	Vandal Resistant	Yes	Yes	—	—	—	—
<b>Power</b>	Max. Consumption	6 W	4.5 W	4.2 W	4.2 W	6.7 W	8 W
	Supply	24 VAC, 12 VDC	24 VAC, 12 VDC	12 VDC	24 VAC, 12 VDC	24 VAC, 12 VDC	24 VAC, 12 VDC

\* UTP output available on VDI-245-V03-2U

# Advantage Line Quick Selection Guide

## Accessories

### ► Video Software

#### Bosch Video Client



BVC-ESIP08A	8 IP camera add-on license
BVC-ESIP16A	16 IP camera add-on license


Easy to use graphical user interface, Display up to 20 HD (1080p and 720P) or SD cameras at the same time.

- Dynamic 16:9 cameo resizing
- Simultaneous viewing of live and playback streams (20 max.)
- Local recording and snapshots
- PTZ control
- Lens control and digital zoom
- Playback and export from on-camera storage and VRM
- Motion and IVA Forensic Search
- Instant replay and trick mode playback






BVC is packaged free of charge with all Bosch IP cameras, and can be downloaded from the web. Licensing is free for up to 16 cameras. For larger systems, 8-camera and 16-camera expansion license bundles are available for purchase.

### ► Power Supplies, Mounts & Hardware

#### Power Supplies

	UPA-2430-60	Input 120 VAC, 60 Hz Output 24 VAC, 1.25 A, 30 VA
	UPA-1220-60	Input 100-240 VAC, 50/60 Hz Rated Output 12 VDC, 1.0 A regulated
	UPA-2450-60	Input 120 VAC, 60 Hz Output 24 VAC, 50 VA

#### Mounts

	EXMB.045WZ	For use with VDI-245V03-2 and VDI-245V03-2U
	WZMB.001	Adapter Plate enables mounting of the VTI-220 cameras onto a circular gang box
	VEZ-A4-IC	In-ceiling Mount for VEZ-400
	VEZ-A4-PW / PC	Pipe Mount for VEZ-400. Available in white or charcoal
	VEZ-A4-WW / WC	Wall Mount for VEZ-400. Available in white or charcoal

#### Other Hardware

	MIC-BP3	Bi-Phase to RS-485 converter device for VEZ-400
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# Advantage Line Quick Selection Guide

## Digital Storage



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Advantage Line



DVR 400 Series

DVR 600 Series

DVR 400 Series      DVR 600 Series

	DVR 400 Series	DVR 600 Series		
<b>System</b>	Target System Size	1 - 8 cameras	16 - 64 cameras	
	Operating System	Embedded	Embedded	
	Rack Module	No	Yes	
	SDK Available	No	No	
<b>Video</b>	Input Channels	4, 8	8, 16	
	Output	Looping Video	Yes	Yes
		Composite Outs	1	0
		VGA	Yes	2
Spot Monitor	1	1		
<b>Audio</b>	Input Channels	1	4	
	Output Channels	1	2	
	Synchronous Audio	Yes	Yes	
<b>Alarms</b>	Associate Multiple Cameras to 1 Audio	Yes	Yes	
	Inputs	4, 8	8, 16	
	Relay Outputs	1 or 4	4	
	Call up Pre-position on Dome Cameras	Yes	Yes	
	Increase Frame Rate on Alarm	Yes	Yes	
	Vandal Resistant	Yes	Yes	
	Multiple Camera Linking on Alarm Event	Yes	Yes	
<b>Recording</b>	Notification on Email	Yes	Yes	
	Pre-alarm	Yes	Up to 30 seconds	
	Motion Detection	Yes	Yes	
	Video Compression	H.264	H.264	
<b>Recording</b>	Frame Rate (IPS) / IPS per Camera	120 IPS @ CIF	480 IPS @ CIF	
	IPS per Camera	25 / 30 IPS @ CIF	25 / 30 IPS @ CIF	
	Rec. Resolution	352x240 / 704x240 / 704x480	352x240 / 704x240 / 704x480	
	Individual Cameras Adjustment (IPS & Quality)	Yes	Yes	
	Schedule Recording Modes	Day/Week/Specific Day/32 Exception Days	Day/Week/Specific Day/32 Exception Days	

	DVR 400 Series	DVR 600 Series			
<b>Storage</b>	Internal HDD/Expandable	500 GB	500, 1000, 2000, 4000 GB / Yes		
	Export	Supported Devices	USB 1.1 and USB 2.0	Internal CD/DVD Writer, USB 2.0	
		Data Format	Native File Format	Native File Format	
<b>Search</b>	Back-up Mode	n/a	Manual or Automatic		
	Timeline Search Bar (Color-coded)	Yes	Yes		
	Search Mode	Date/time, Events, Motion, Motion Search	Date/time, Events, Motion, Bookmark, Smart Motion Search		
<b>Display</b>	Smart Motion Search	Yes	Yes		
	Live Resolution	720x484	720x484		
<b>Security</b>	Screen Division	Full, 2x2, Sequence	Full, Sequence, 2x2, 3x2, 3x3, 4x4, 5+1, 7+1, 12+1		
		User Control	User Levels	3	3
		Camera Lockouts by User	Yes	Yes	
<b>Remote Access</b>	Set Viewing Permissions	Yes	Yes		
	Data Integrity Check (Watermarking, etc.)	Yes	Yes		
	Network	10/100 Ethernet	10/100/1000 Ethernet		
	Web Browser Access	Yes	Yes		
<b>Other</b>	Simultaneous Accessible Users	4	4		
	Admin control	Yes	Yes		
	PTZ Control	Yes	Yes		
	Export Options	Native File Format	Native File Format and .AVI		
	Instant Playback	Yes	Yes		
	Digital Zoom (Live / Playback)	Yes / Yes	Yes / No		
	PTZ Joystick Control	No	Yes		
ATM/POS Interface	No	No			

# Quick Selection Guide IP Cameras

## Fixed Cameras



	<b>Dinion IP Series</b> <b>NBC-455</b>	<b>Dinion IP DN Series</b> <b>NBN-498</b>	<b>Dinion HD 720p DN</b> <b>NBN-921</b>	<b>Dinion HD 1080p DN</b> <b>NBN-832</b>
<b>Image Sensor Type</b>	1/3" progressive scan CCD	1/3" progressive scan CCD	1/3" progressive scan CCD	1/2.7" progressive scan CMOS
<b>Day/Night</b>	■	■	■	■
<b>IR Sensitive</b>	□	■	■	■
<b>WDR</b>	□	■	□	□
<b>Dynamic Range (WDR)</b>	60 dB	120 dB	70 dB	50 dB
<b>Video Motion Detection</b>	■	■	■	■
<b>Privacy Masking</b>	■	■	■	■
<b>Auto Black</b>	■	■	■	□
<b>Intelligent Video Analysis (IVA) §</b>	■	■	■	■
<b>Lens</b>	C/CS	C/CS	C/CS	C/CS
<b>Minimum Illumination (day mode) [lux] §</b>	0.3	0.015	1.0	0.5
<b>Minimum Illumination (night mode) [lux] §</b>	0.012	0.006	0.04	0.08
<b>Compression / Multistreaming</b>	H.264 Tri-streaming *	H.264 Tri-streaming *	H.264 Quad-streaming **	H.264 Quad-streaming **
<b>Images Per Second Color (max.)</b>	30 @ 4CIF	30 @ 4CIF	30 @ 720p	30 @ 1080p
<b>Maximum Resolution</b>	704 x 480 (4CIF)	704 x 480 (4CIF)	1280 x 720 (HD 720p)	1920 x 1080 (HD 1080p)
<b>Alarm Input / Output</b>	2/1	2/1	2/1	2/1
<b>Audio / Audio Alarm</b>	■	■	■	■
<b>Power Over Ethernet (PoE)</b>	■	■	■	■
<b>Power Consumption</b>	6W	6.6W - 9.6W	6.6W - 9.6W	4.8W - 8.4W
<b>Operating Temperature §</b>	-4° to 122° F -20° to 50° C	4° to 122° F -20° to 50° C	-4° to 122° F -20° to 50° C	-4° to 131° F -20° to 55° C
<b>Vandal Resistant</b>	N/A	N/A	N/A	N/A
<b>All-weather Rating</b>	N/A	N/A	N/A	N/A

### Footnotes

§ Refer to datasheet for individual camera details

± Extended temp heater module extends temperature range to -7° F (-60° C) for EnviroDome only

\* Two (2) H.264 streams with one (1) M-JPEG stream

\*\* Three (3) H.264 streams (720p HD, downsampled resolution, and HD I-frame only) with one (1) M-JPEG stream.

\*\*\* Three (3) H.264 streams with one (1) M-JPEG stream. During full bandwidth operation (1080p30) or high frame rate (720p60) the second stream is an exact copy of the first.

In reduced bandwidth mode (720p30) the second is an independently configurable, downsampled- resolution stream. In both

# Quick Selection Guide

## IP Cameras

### Fixed MiniDomes


**FlexiDome IP**
**FlexiDome IP DN**
**FlexiDome HD 720p**
**FlexiDome HD 1080p**
**AutoDome Junior HD Fixed**
**NDC-455**
**NDN-498**
**NDN-921**
**NDN-832**
**VJR-F801**

	NDC-455	NDN-498	NDN-921	NDN-832	VJR-F801
<b>Image Sensor Type</b>	1/3" progressive scan CCD	1/3" progressive scan CCD	1/3" progressive scan CCD	1/2.7" progressive scan CMOS	1/2.5" progressive scan CMOS
<b>Day/Night</b>	■	■	■	■	■
<b>IR Sensitive</b>	□	■	■	■	■
<b>WDR</b>	□	■	□	□	□
<b>Dynamic Range (WDR)</b>	60 dB	120 dB	70 dB	50 dB	50 dB
<b>Video Motion Detection</b>	■	■	■	■	■
<b>Privacy Masking</b>	■	■	■	■	■
<b>Auto Black</b>	■	■	■	□	□
<b>Intelligent Video Analysis (IVA)</b>	■	■	■	■	■
<b>Lens</b>	2.8 to 10 mm 9.0 to 22 mm	2.8 to 10 mm 9.0 to 22 mm 6.0 to 50 mm	3 to 9 mm	1.8 to 3 mm 3.8 to 13 mm 9 to 40 mm	10x optical zoom 2.4 to 24 mm 16x digital zoom
<b>Minimum Illumination (day mode) [lux] §</b>	0.3	0.028	1.0	0.5	1.1
<b>Minimum Illumination (night mode) [lux] §</b>	0.012	0.0099	0.04	0.08	0.06
<b>Compression / Multistreaming</b>	H.264 Tri-streaming *	H.264 Tri-streaming *	H.264 Quad-streaming **	H.264 Quad-streaming **	H.264 Quad-streaming ***
<b>Images Per Second Color (max.)</b>	30 @ 4CIF	30 @ 4CIF	30 @ 720p	30 @ 1080p	60 @ 720p 30 @ 1080p
<b>Maximum Resolution</b>	704 x 480 (4CIF)	704 x 480 (4CIF)	1280 x 720 (HD 720p)	1920 x 1080 (HD 720p)	1920 x 1080 (HD 1080p)
<b>Alarm Input / Output</b>	2/1	2/1	2/1	2/1	2/1
<b>Audio / Audio Alarm</b>	■	■	■	■	■
<b>Power Over Ethernet (PoE)</b>	■	■	■	■	■
<b>Power Consumption</b>	8W	6.6 - 9.6W	6.6 - 9.6W	9.6 - 16.8W	14W
<b>Operating Temperature §</b>	-58° to +122° F -50° to +50° C (heater on)	-58° to +122° F -50° to +50° C (heater on)	-58° to +122° F -50° to +50° C (heater on)	-58° to +131° F -50° to +55° C (heater on)	14° to 104° F -10° to 40° C
<b>Vandal Resistant</b>	■	■	■	■	■
<b>All-weather Rating</b>	IP 66 / NEMA 4X	IP 66 / NEMA 4X	IP 66 / NEMA 4X	IP 66 / NEMA 4X	IP54

# Quick Selection Guide IP Cameras

## PTZ Cameras


**HD**
**AutoDome  
800 Series HD**
**VG5-825**

**AutoDome  
700 Series IP**
**VG5-7xx**

**HD**
**AutoDome  
Junior HD**
**VJR-821**

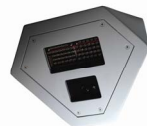
**AutoDome  
Easy II IP**
**VEZ-211**

	VG5-825	VG5-7xx	VJR-821	VEZ-211
<b>Image Sensor Type</b>	1/3" CMOS	1/4" Progressive Scan CCD	1/2.5". progressive scan CMOS	1/4" CCD
<b>Day/Night</b>	■	■	■	□
<b>IR Sensitive</b>	■	■	■	□
<b>Video Motion Detection</b>	■	■	■	■
<b>Privacy Masking</b>	■	■	■	■
<b>Auto Black</b>	□	□	□	□
<b>Intelligent Video Analysis (IVA) §</b>	■	■	■	■
<b>Lens</b>	20x optical zoom 4.7 to 94 mm 10x digital zoom	28x / 36x optical zoom 3.5 to 98.0 mm / 3.1 to 122.4 mm 12x digital zoom	10x optical zoom 6.3 to 63 mm 16x digital zoom	10x Zoom 4.2 to 42.0 mm
<b>Minimum Illumination (day mode) [lux] §</b>	0.8 (D/N)	0.66 (36x) 0.33 (28x)	1.2	1.0
<b>Minimum Illumination (night mode) [lux] §</b>	0.12 (D/N)	0.104 (36x) 0.066 (28x)	0.06	N/A
<b>Compression / Multistreaming</b>	H.264 Quad-streaming ***	H.264 Quad-streaming ***	H.264 Quad-streaming ***	H.264 Tri-streaming *
<b>Images Per Second Color (max.)</b>	60 @ 720p 30 @ 1080p	30 @ 4CIF	60 @ 720p 30 @ 1080p	30 @ 4CIF
<b>Maximum Resolution</b>	1920 x 1080 (HD 1080p)	704 x 480 (4CIF)	1920 x 1080 (HD 1080p)	704 x 480 (4CIF)
<b>Alarm Input / Output</b>	2/1	2/1	2/1	2/1
<b>Audio / Audio Alarm</b>	■	■	■	□
<b>Power Over Ethernet (PoE)</b>	□	□	■	■ (Indoor)
<b>Power Consumption</b>	55W	19W (indoor) 55W (outdoor)	17W	12W (Indoor) 27W Max (Outdoor)
<b>Operating Temperature §</b>	-40° to 122° F -40° to 50° C	14° to 104° F -10° to 40° C (indoor) -40° to 122° F -40° to 50° C (outdoor)	14° to 104° F -10° to 40° C	14° to 104° F -10° to 40° C (indoor) -22° to 122° F -30° to 50° C (outdoor)
<b>Vandal Resistant</b>	■	■	■	■ (indoor version)
<b>All-weather Rating</b>	IP66	IP66 / NEMA 4X (pendant housing)	IP54	4X IP65 / NEMA 4X (outdoor)

# Quick Selection Guide

## IP Cameras

### Extreme Environment


**Vandal Resistant**
**IP Infrared Imager**
**Thermal IP Camera**
**EX36-IP**
**NEI-30**
**VOT-320**

Camera Options	Color or High-Performance Day/Night	Dinion 2X Day/Night	Thermal
Image Sensor Type	1/3" CCD	1/3" CCD	Vanadium Oxide (VOx) focal plane array
Day/Night	Optional	■	—
IR Sensitive	Optional	■	■
Dynamic Range (WDR)	□	■	—
Pan/Tilt/Zoom (PTZ)	□	□	□
Intelligent Video Analysis (IVA) §	■	■	■
Video Motion Detection	■	■	■
Auto Black	□	■	□
Lens	2.5 mm, 3.6 mm	5 to 50 mm Auto-iris	WFOV: 9 mm, 13 mm, 19 mm NFOV: 60 mm
Minimum Illumination (day mode) [lux] §	2.7 F1.4 (Color)	0.047 (Color)	0
Wavelength	850 nm or 940 nm	850 nm or 940 nm	—
Night Vision Maximum Range	30 ft. (9 m) @ 850 nm	525 ft (160 m) @ 850 nm	12,795 ft (3.9 km)
Compression / Multistreaming	(2) H.264 (1) JPEG	(2) H.264 (1) JPEG	(2) H.264 (1) JPEG
Images Per Second Color (max.)	30 @ 4CIF (MPEG-4) 15 @ 2CIF (H.264)	30 @ 4CIF (MPEG-4) 15 @ 2CIF (H.264)	8.33 / 30
Maximum Resolution	704 x 480 (4CIF)	704 x 480 (4CIF)	320 x 240
Alarm Input / Output	□	□	■
Audio / Audio Alarm	□	□	□
Power Over Ethernet (PoE)	□	■	□
Power Consumption	11W Max. (with IR)	35W	3.1 A
Operating Temperature §	-58° to 122° F -50° to 50° C	-40° to 122° F -40° to 50° C	-58° to 131° F -50° to 55° C
Vandal Resistant	■	□	□
All-weather Rating	N/A	IP67 / NEMA 4X	IP 66 / NEMA 4

# Quick Selection Guide

## Moving Cameras

AutoDome Series PTZ				AutoDome Series Fixed		
						
<b>800 Series HD</b>	<b>700 Series IP</b>	<b>600 Series Analog</b>	<b>Junior HD</b>	<b>Easy II IP</b>	<b>Junior HD Fixed</b>	<b>100 Series Analog</b>
<b>VG5-825</b>	<b>VG5-7xx</b>	<b>VG5-6xx</b>	<b>VJR-811</b>	<b>VEZ-211</b>	<b>VJR-F801</b>	<b>VG5-1xx</b>

Imaging	Image Sensor Type	1/3" CMOS	1/4" Progressive Scan CCD	1/4" Progressive Scan CCD	1/2.5" Progressive Scan CMOS	1/4" CCD	1/2.5" Progressive Scan CMOS	1/3" Interline CCD
	Day/Night	■	■	■	■	□	■	■
	IR Sensitive	■	■	■	■	□	■	■
	Maximum Resolution	HD 1080p (1920 x 1080)	4CIF (704 x 480)	550 TVL	HD 1080p (1920 x 1080)	4CIF (704 x 480)	HD 1080p (1920 x 1080)	540 TVL
	Video Motion Detection	■	■	■	■	■	□	□
	Intelligent Video Analysis (IVA)	■	■	□	■	■	■	□
	Privacy Masking	■	■	■	■	■	■	□
	Auto Black	□	□	□	□	□	□	■
	Zoom	20x optical 10x digital	28x / 36x optical 12x digital	28x / 36x optical 12x digital	10x optical 16x digital	10x optical	10x optical 16x digital	—
Lens	4.7 – 94 mm	3.5 – 98.0 mm (18x) 3.4 – 122.4 mm (36x)	3.5 – 98.0 mm (18x) 3.4 – 122.4 mm (36x)	6.3 – 63 mm	4.2 – 42.0 mm	2.4 – 24 mm	2.7 – 13.5 mm 5 – 50 mm	
Sensitivity §	Min. Illumination (day mode)	0.8 lux (D/N)	0.66 lux (36x) 0.33 lux (28x)	0.66 lux (36x) 0.33 lux (28x)	1.2 lux	1.0 lux	1.1 lux	0.29 lux (D/N)
	Min. Illumination (night mode)	0.12 lux (D/N)	0.104 lux (36x) 0.066 lux (28x)	0.104 lux (36x) 0.066 lux (28x)	0.06 lux	n/a	0.06 lux	0.12 lux (D/N)
Streaming	Compression	H.264 Quad-streaming **	H.264 Quad-streaming **	n/a	H.264 Quad-streaming **	H.264 Tri-streaming *	H.264 Quad-streaming **	n/a
	Images Per Second Color (max.)	60 @ 720p 30 @ 1080p	30 @ 4CIF	n/a	60 @ 720p 30 @ 1080p	30 @ 4CIF	60 @ 720p 30 @ 1080p	n/a
Input / Output	Alarm Input / Output	2/1	2/1	7/4	2/1	2/1	2/1	n/a
	Audio / Audio Alarm	■	■	Audio In	■	□	■	□
Power	Power Over Ethernet (PoE)	□	□	n/a	■	■ (Indoor)	■	n/a
	Max. Power Consumption	19W (indoor) 55W (outdoor)	19W (indoor) 55W (outdoor)	15W (indoor) 51W (outdoor) ***	17W	12W (indoor) 27W (outdoor)	14W	7.5W (indoor) 43.5W (outdoor) ***
Operating Temperature §	Indoor (In-ceiling)	14° to 122° F (-10° to 50° C)	14° to 104° F (-10° to 40° C)	14° to 104° F (-10° to 40° C)	14° to 104° F (-10° to 40° C)	14° to 104° F (-10° to 40° C)	14° to 104° F (-10° to 40° C)	14° to 122° F (-10° to 50° C)
	Outdoor	-49° to 131° F (-45° to 55° C)	-40° to 122° F (-40° to 50° C)	-40° to 122° F (-40° to 50° C)	n/a	-22° to 122° F (-30° to 50° C)	n/a	-40° to 122° F (-40° to 50° C)
Environmental	Vandal Resistant	■	■	■	■	■ (indoor)	■	■
	All-weather Rating	IP66 / NEMA rated (pendant)	IP66 / NEMA rated**** (pendant)	IP66 / NEMA rated**** (pendant)	IP54	IP65 (outdoor)	IP54	IP66 / NEMA rated**** (pendant)

§ Refer to datasheet for individual camera details

\* Two (2) H.264 streams with one (1) M-JPEG stream






\*\* Three (3) H.264 streams with one (1) M-JPEG stream. During full bandwidth operation (1080p30) or high frame rate (720p60) the second stream is an exact copy of the first. In reduced bandwidth mode (720p30) the second is an independently configurable, downscaled-resolution stream. In both modes the third H.264 stream consists of HD I-frames only.

\*\*\* Add 16 W if using heater module

\*\*\*\* Meets requirements for NEMA 4X certification with use of a polycarbonate bubble. Meets requirements for NEMA 4X, except impact test, with use of an acrylic bubble.

# Quick Selection Guide

## Moving Cameras

		Stainless Steel	Aluminum		Thermal	Explosion-Protected	High Speed	Long Range
								
		MIC Series 400	MIC Series 550		MIC Series 412	MIC Series 440	HSPS Series	GVS Series
		MIC400ST	MIC-550AL	MIC-550IR	MIC412TI/TF	MIC440AX	UPH-Cxx	GVS1000
Imaging	Image Sensor Type	1/4" CCD	1/4" CCD	1/4" CCD	1/4" CCD	14" CCD	1/3" / 1/2" CCD	1/2" CCD
	Day/Night	■	■	■	■	■	■	■
	IR Sensitive	■	■	■	■	■	■	■
	Maximum Resolution	470 TVL (18x) 530 TVL (36x)	550 TVL	550 TVL	530 TVL	470 TVL	540 TVL	540 TVL
	Video Motion Detection	□	■	■	■	□	■	□
	Intelligent video Analysis (IVA)	□	□	□	□	□	□	□
	Privacy Masking	□	■	■	■	□	□	□
	Auto Black	□	□	□	□	□	■	□
	Zoom	18x / 36x optical 12x digital	28x / 36x optical 12x digital	28x / 36x optical 12x digital	36x optical 12x digital	18x / 36x	10x / 15x / 18x	60x
	Lens	4.1 – 73.8 mm (18x) 3.4 – 122.4 mm (36x)	3.5 – 98.0 mm (18x) 3.4 – 122.4 mm (36x)	3.5 – 98.0 mm (18x) 3.4 – 122.4 mm (36x)	3.4 – 122.4 mm (36x) 60 mm (Thermal)	4.1 – 73.8 mm (18x) 3.4 – 122.4 mm (36x)	8 – 120 mm 8.5 – 85 mm 8.6 – 154 mm	12.5 – 750 mm 25 – 1500 mm
Sensitivity §	Min. Illumination (day mode)	0.7 lux (18x) 1.4 lux (36x)	1.4 lux	1.4 lux	1.4 lux (36x)	0.7 lux (18x) 1.4 lux (36x)	0.31 lux	0.31 lux
	Min. Illumination (night mode)	0.01 lux (18x) 0.01 lux (36x)	0.01 lux	0 lux	0.01 lux (36x)	0.01 lux (18x) 0.1 lux (36x)	0 lux	0 lux
Infrared	Integrated IR	□	□	■	■	□	■	■
	Wavelength	n/a	n/a	850 nm	7.5 / 30 Hz (NTSC) ** 8.3 / 25 Hz (PAL)	n/a	850 nm	730 / 850 nm
	Max. Night Vision Range	n/a	n/a	197 ft (60 m)	Detection: 1.3 miles (2.2 km)	n/a	876 ft (267m) *	Classification: 3900 ft (1200 m)
	3D Diffuser	n/a	n/a	□	n/a	n/a	■	■
Power	Input Voltage	18 VAC	18 VAC	18 VAC	18 VAC	18 VAC	24 VAC	120 / 230 VAC
	Max. Power Consumption	37 W	36 W	43 W	50 W	25 W	8 A	800 W (full IR)
Mechanical	Construction	Grade 316L Stainless Steel	Cast Solid Aluminum	Cast Solid Aluminum	Machined Aluminum	Machined, Alodined, Powder-coated Aluminum	Aluminum with acrylic front fascia	Aluminum with stainless steel fastenings
	Pan-Tilt Range	360° continuous pan 270° tilt	360° continuous pan 267° tilt	360° continuous pan 186.6° tilt	360° continuous pan 260° tilt	360° continuous pan 240° tilt	360° continuous pan 130° tilt	215° pan 90° tilt
	On-site Canting Ability	□	■	■	□	□	□	□
Environmental	Operating Temperature	-40° to 122° F (-40° to 50° C)	-40° to 140° F (-40° to 60° C)	-40° to 140° F (-40° to 60° C)	-40° to 140° F (-40° to 60° C)	-4° to 140° F (-20° to 60° C)	-4° to 122° F (-20° to 50° C)	-4° to 122° F (-20° to 50° C)
	All-weather Rating	IP 68	IP68 / NEMA 6P	IP68 / NEMA 6P	IP68	IP68	IP66	IP65

§ Refer to datasheet for individual camera details

\* Actual illumination distance achieved is dependent on camera and lens characteristics.

\*\* U.S. export license required for 30 / 25 Hz . Contact Bosch for details.

For more information, contact:

America  
www.boschsecurity.us  
+1-800-289-0096

Asia-Pacific  
www.boschsecurity.asia  
+65 6571 2808

Europe, Middle East, Africa  
www.boschsecurity.com  
+31 (0) 40 25 77 284