













# Quick Reference Guide

CATEGORY	IP VANDAL DOME CAMERAS												
MODEL	ANVW228	ANVW240	NLPW229	NLPW237	NVW2212M	NVW2212MB	NVW229B	NVW429	NVW429B	NVW436	NVW4212M	NVW4212MB	NVW4K311M
<b>Video</b>													
<b>Resolution / Description</b>	2MP, Fixed, White	2MP, Fixed, White	2MP, Low Profile, Fixed, White	2MP, Low Profile, Fixed, White	2MP, MVF, White	2MP, MVF, Black	2MP, Fixed, Black	4MP, Fixed, White	4MP, Fixed, Black	4MP, Fixed, White	4MP, MVF, White	4MP, MVF, Black	8MP (4K), MVF, White
<b>FPS @ Max Resolution</b>	30 @ 1920 x 1080	30 @ 1920 x 1080	30 @ 1920 x 1080	30 @ 1920 x 1080	30 @ 1920 x 1080	30 @ 1920 x 1080	30 @ 1920 x 1080	30 @ 2592 x 1520	30 @ 2592 x 1520	30 @ 2592 x 1520	30 @ 2592 x 1520	30 @ 2592 x 1520	30 @ 3840 x 2160
<b>Lens</b>	Fixed 2.8mm	Fixed 4mm	Fixed 2.9mm	Fixed 3.7mm	MVF 2.8~12mm	MVF 2.8~12mm	Fixed 2.9mm	Fixed 2.9mm	Fixed 2.9mm	Fixed 3.6mm	MVF 2.8~12mm	MVF 2.8~12mm	MVF 3.6~11mm
<b>Sensor</b>	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/3" CMOS	1/3" CMOS	1/2.8" CMOS	1/3" CMOS	1/3" CMOS	1/3" CMOS	1/3" CMOS	1/3" CMOS	1/3" CMOS
<b>IR LED (Warm Light) Max Range</b>	98ft (30M)	98ft (30M)	49ft (15M)	164ft (50M)	82ft (25M)	82ft (25M)	82ft (25M)	82ft (25M)	82ft (25M)	82ft (25M)	82ft (25M)	82ft (25M)	98ft (30M)
<b>Min Scene Illum (Lux)</b>	0.03 (Col); 0 (BW, w/ IR)	0.03 (Col); 0 (BW, w/ IR)	0.2 (Col); 0 (BW, w/ IR)	0.003 (Col); 0 (BW, w/ IR)	0.1 (Col); 0 (BW, w/ IR)	0.1 (Col); 0 (BW, w/ IR)	0.08 (Col); 0 (BW, w/ IR)	0.23 (Col); 0 (BW, w/ IR)	0.23 (Col); 0 (BW, w/ IR)	0.23 (Col); 0 (BW, w/ IR)	0.1 (Col); 0 (BW, w/ IR)	0.1 (Col); 0 (BW, w/ IR)	0.03 (Col); 0 (BW, w/ IR)
<b>WDR</b>	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB
<b>Video Compression</b>	H.265	H.265	H.264	H.264	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265	H.265
<b>Video Streams</b>	4	4	3	3	4	4	4	4	4	4	4	4	4
<b>ONVIF Compliant</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>3D-DNR, BLC, Privacy, MD, Video Analytics</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>White Balance, Defog</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Corridor Mode</b>	-	-	Yes	Yes	-	-	Yes	Yes	Yes	Yes	-	-	-
<b>Add'l Features</b>	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>General</b>													
<b>NDAA Compliant</b>	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-
<b>Onboard Storage</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Alarm I / O</b>	0 / 0	0 / 0	0 / 0	0 / 0	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
<b>Audio I / O</b>	0 / 0	0 / 0	0 / 1	0 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
<b>Operating Temp Range</b>	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)
<b>Conformity Cert's</b>	IP67, IK10	IP67, IK10	IP67	IP67	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10
<b>Power</b>	12VDC / PoE 6W	12VDC / PoE 6W	12VDC / PoE 5.3W	12VDC / PoE 5.3W	12VDC / PoE 8.2W	12VDC / PoE 8.2W	12VDC / PoE 7.3W	12VDC / PoE 7.3W	12VDC / PoE 7.3W	12VDC / PoE 7.3W	12VDC / PoE 7.3W	12VDC / PoE 8.5W	12VDC / PoE 9W






# Quick Reference Guide

CATEGORY	IP BULLET CAMERAS									FISHEYE CAMERAS
	ANBW228	ANBW240	NBW229	IPLPC2RI	NBW2212M	NBW429	NBW436	NBW4212M	NBW4K311M	NFE5360
MODEL										
<b>Video</b>										
Resolution / Description	2MP, Fixed, White	2MP, Fixed, White	2MP, Fixed, White	2MP, License Plate Capture, MVF, White	2MP, MVF, White	4MP, Fixed, White	4MP, Fixed, White	4MP, MVF, White	8MP (4K), MVF, White	5MP, Indoor, Fixed, White
FPS @ Max Resolution	30 @ 1920 x 1080	30 @ 1920 x 1080	30 @ 1920 x 1080	60 @ 1920 x 1080	30 @ 1920 x 1080	30 @ 2592 x 1520	30 @ 2592 x 1520	30 @ 2592 x 1520	30 @ 3840 x 2160	15 @ 2592 x 1944
Lens	Fixed 2.8mm	Fixed 4mm	Fixed 2.9mm	MVF 5.1 ~ 51mm	MVF 2.8~12mm	Fixed 2.9mm	Fixed 3.6mm	MVF 2.8~12mm	MVF 3.6~11mm	Fixed 1.05 Pano
Sensor	1/2.8" CMOS	1/2.8" CMOS	1/2.9" CMOS	1/2" CMOS	1/2.8" CMOS	1/3" CMOS	1/3" CMOS	1/3" CMOS	1/2.5" CMOS	1/1.8" CMOS
IR LED (Warm Light) Max Range	82ft (25M)	82ft (25M)	82ft (25M)	82ft (25M)	131ft (40M)	82ft (25M)	82ft (25M)	131ft (40M)	98ft (30M)	-
Min Scene Illum (Lux)	0.03 (Col); 0 (BW, w/ IR)	0.03 (Col); 0 (BW, w/ IR)	0.08 (Col); 0 (BW, w/ IR)	0 (BW, w/ IR)	0.1 (Col); 0 (BW, w/ IR)	0.23 (Col); 0 (BW, w/ IR)	0.23 (Col); 0 (BW, w/ IR)	0.1 (Col); 0 (BW, w/ IR)	0.03 (Col); 0 (BW, w/ IR)	0.03 (Col); 0 (BW)
WDR	120dB	120dB	120dB	-	120dB	120dB	120dB	120dB	120dB	Digital
Video Compression	H.265	H.265	H.265	H.264	H.265	H.265	H.265	H.265	H.265	H.264
Video Streams	4	4	4	3	4	4	4	4	4	3
ONVIF Compliant	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3D-DNR, BLC, Privacy, MD, Video Analytics	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
White Balance, Defog	Yes	Yes	Yes	-	Yes	Yes	Yes	Yes	Yes	Yes
Corridor Mode	-	-	-	-	-	-	-	-	-	No
Add'l Features	-	-	-	Built-in Heater	-	-	-	-	-	-
<b>General</b>										
NDAA Compliant	Yes	Yes	-	-	-	-	-	-	-	-
Onboard Storage	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Alarm I / O	0 / 0	0 / 0	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
Audio I / O	0 / 0	0 / 0	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
Operating Temp Range	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 50°C (-22°F ~ 122°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-10°C ~ 50°C (-14°F ~ 122°F)
Conformity Cert's	IP67	IP67	IP66	IP66	IP66	IP66	IP66	IP66	IP66	-
Power	12VDC / PoE 5W	12VDC / PoE 5W	12VDC / PoE 6.5W	12VDC / PoE 23W	12VDC / PoE 7.7W	12VDC / PoE 6.5W	12VDC / PoE 6.5W	12VDC / PoE 7.6W	12VDC / PoE 9W	12VDC / PoE 7.7W



# Quick Reference Guide

CATEGORY	IP NETWORK RECORDERS		
MODEL	ANVR04P2	ANVR08P2	ANVR16P2
			
<b>Video &amp; Audio Inputs</b>			
<b>Description / Inputs</b>	4-Ch NVR w/ 4 PoE	8-Ch NVR w/ 8 PoE	16-Ch NVR w/ 16 PoE
<b>Maximum Recording Resolution</b>	8MP (4K)	8MP (4K)	8MP (4K)
<b>Video Compression</b>	H.265	H.265	H.265
<b>Maximum Record / Playback Rate</b>	8MP @ 120fps	8MP @ 240fps	8MP @ 480fps
<b>Audio</b>	1-ch, RCA	1-ch, RCA	1-ch, RCA
<b>Video &amp; Audio Outputs</b>			
<b>VGA Output</b>	1 x 1080p	1 x 1080p	1 x 1080p
<b>HDMI Output</b>	1 x 8MP	1 x 8MP	1 x 8MP
<b>Audio Output</b>	1-ch, RCA	1-ch, RCA	1-ch, RCA
<b>Network</b>			
<b>Incoming Bandwidth</b>	72Mbps	144Mbps	288Mbps
<b>Outgoing Bandwidth</b>	72Mbps	144Mbps	288Mbps
<b>Remote Users</b>	10	10	10
<b>Hard Disk Drive</b>			
<b>SATA</b>	2 Interface	2 Interface	2 Interface
<b>Maximum Capacity</b>	Up to 12TB	Up to 12TB	Up to 12TB
<b>External Interfaces</b>			
<b>Network</b>	1 x RJ45 10M/100M Ethernet	1 x RJ45 10M/100M Ethernet	1 x RJ45 10M/100M Ethernet
<b>PoE</b>	4 x RJ45 10M/100M Base T	8 x RJ45 10M/100M Base T	16 x RJ45 10M/100M Base T
<b>Maximum PoE Power</b>	30W Total; IEEE 802.3at	60W Total; IEEE 802.3at	120W Total; IEEE 802.3at
<b>USB</b>	2 x USB2.0	2 x USB2.0	2 x USB2.0
<b>RS232</b>	n/a	n/a	n/a
<b>RS485</b>	1	1	1
<b>Alarm In</b>	4 – Terminal Strip	8 – Terminal Strip	816– Terminal Strip
<b>Alarm Out</b>	1 – Terminal Strip	1 – Terminal Strip	1 – Terminal Strip
<b>General</b>			
<b>NDAA Compliant</b>	Yes	Yes	Yes
<b>Certifications</b>	FCC, CE; (UL – Power Supply only)	FCC, CE; (UL – Power Supply only)	FCC, CE; (UL – Power Supply only)






# Quick Reference Guide

CATEGORY	HD ANALOG CAMERAS				
MODEL	HDB236	HDB2212M	HDT228	HDV228B	HDV236
					
<b>Video</b>					
<b>Resolution / Description</b>	2MP, Fixed, White, Bullet	2MP, MVF, White, Bullet	2MP, Fixed, White, Turret	2MP, Fixed, Black, Vandal Dome	2MP, Fixed, White, Vandal Dome
<b>FPS @ Max Resolution</b>	25 @ 1920 x 1080	25 @ 1920 x 1080	25 @ 1920 x 1080	25 @ 1920 x 1080	25 @ 1920 x 1080
<b>Lens</b>	Fixed 3.6mm	MVF 2.8~12mm	Fixed 2.8mm	Fixed 2.8mm	Fixed 3.6mm
<b>Sensor</b>	1/2.8" CMOS	1/2.9" CMOS	1/2.9" CMOS	1/2.9" CMOS	1/2.9" CMOS
<b>IR LED (Warm Light) Max Range</b>	82ft (25M)	131ft (40M)	65ft (22M)	82ft (25M)	82ft (25M)
<b>Min Scene Illum (Lux)</b>	1.0 (Col); 0 (BW, w/ IR)	1.0 (Col); 0 (BW, w/ IR)	1.0 (Col); 0 (BW, w/ IR)	1.0 (Col); 0 (BW, w/ IR)	1.0 (Col); 0 (BW, w/ IR)
<b>WDR</b>	Digital	Digital	Digital	Digital	Digital
<b>Analog Protocols</b>	AHD, CVBS	TVI, AHD, CVBS	TVI, AHD, CVBS	AHD, CVBS	AHD, CVBS
<b>Motion Detection, Video Analytics</b>	Yes	Yes	Yes	Yes	Yes
<b>White Balance, 3D-DNR</b>	Yes	Yes	Yes	Yes	Yes
<b>Add'l Features</b>	-	Defog, BLC, Privacy	BLC, Privacy	Defog, BLC, Privacy	Defog, BLC, Privacy
<b>General</b>					
<b>NDAA Compliant</b>	-	-	-	-	-
<b>Alarm I / O</b>	-	-	-	-	-
<b>Audio I / O</b>	-	-	-	-	-
<b>Operating Temp Range</b>	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)
<b>Conformity Cert's</b>	IP67	IP67	IP66	IP66, IK10	IP66, IK10
<b>Power</b>	12VDC; 4.5W	12VDC; 4.5W	12VDC; 5.4W	12VDC; 4.3W	12VDC; 4.3W



# Quick Reference Guide

CATEGORY	HD ANALOG HYBRID RECORDERS		
MODEL	AHVR042	AHVR082	AHVR162
			
<b>Video &amp; Audio Inputs</b>			
<b>Description / Analog Inputs</b>	4-ch Hybrid Recorder / 4-BNC	8-ch Hybrid Recorder / 8-BNC	16-ch Hybrid Recorder / 16-BNC
<b>IP Video Inputs</b>	1ch (with 3 Analog BNC)	2ch (with 6 Analog BNC)	4ch (with 12 Analog BNC)
<b>Maximum Recording Resolution</b>	AHD, TVI: 4MP CVBS: 720TVL; IP: 2MP	AHD, TVI: 4MP CVBS: 720TVL; IP: 3MP	AHD, TVI: 4MP CVBS: 720TVL; IP: 3MP
<b>Video Compression</b>	H.265	H.265	H.265
<b>Maximum Record / Playback Rate</b>	4MP @ 60fps	4MP @ 120fps	4MP @ 120fps
<b>Audio</b>	4-ch, RCA	4-ch, RCA	4-ch, RCA
<b>Video &amp; Audio Outputs</b>			
<b>CVBS Output</b>	1-ch, BNC	1-ch, BNC	1-ch, BNC
<b>VGA Output</b>	1 x 1080p	1 x 1080p	1 x 1080p
<b>HDMI Output</b>	1 x 8MP	1 x 8MP	1 x 8MP
<b>Audio Output</b>	1-ch, RCA	1-ch, RCA	1-ch, RCA
<b>Network</b>			
<b>Incoming Bandwidth</b>	72Mbps	144Mbps	288Mbps
<b>Outgoing Bandwidth</b>	72Mbps	144Mbps	288Mbps
<b>Remote Users</b>	10	10	10
<b>Hard Disk Drive</b>			
<b>SATA</b>	2 Interface	2 Interface	2 Interface
<b>Maximum Capacity</b>	Up to 12TB	Up to 12TB	Up to 12TB
<b>External Interfaces</b>			
<b>Network</b>	1 x RJ45 10M/100M Ethernet	1 x RJ45 10M/100M Ethernet	1 x RJ45 10M/100M Ethernet
<b>USB</b>	3 x USB2.0	3 x USB2.0	3 x USB2.0
<b>RS232</b>	n/a	n/a	n/a
<b>RS485</b>	1	1	1
<b>Alarm In</b>	4 – Terminal Strip	8 – Terminal Strip	816– Terminal Strip
<b>Alarm Out</b>	1 – Terminal Strip	1 – Terminal Strip	1 – Terminal Strip
<b>General</b>			
<b>NDAA Compliant</b>	Yes	Yes	Yes
<b>Certifications</b>	FCC, CE; (UL – Power Supply only)	FCC, CE; (UL – Power Supply only)	FCC, CE; (UL – Power Supply only)