



## Standard IP Camera

- FW1173-FX (2.0M Box)
- FW1173-MS (1.3M Box)
- FW1173-WS (2.0M WDR Box )
- FW1175-FX (2.0M Vandal Dome)
- FW1175-MS (1.3M Vandal Dome)
- FW1175-WS (2.0M WDR Vandal Dome)
- FW1176-FX (2.0M Plastic Dome)
- FW1176-MS (1.3M Plastic Dome)
- FW1176-WS (2.0M WDR Plastic Dome)
- FW1179-FV (2.0M 50IR LEDs Bullet )
- FW1179-MV (1.3M 50IR LEDs Bullet )

## Speed Dome & Specialty IP Camera

- FW1177-FR (2.0M 20x IR Speed Dome)
- FW1177-FP (2.0M 20x Speed Dome)
- FW1177-FK (2.0M 20x Speed Dome)
- FW1177-DE (D1 27x/33x/37x Speed Dome)
- FW1178-DI (D1 12x Mini Speed Dome)
- FW1193-FG (2.0M Mobile IR Camera )

## Network Video Recorder

- FW5470 (4CH Hybrid NVR)
- FW5870 (8CH Hybrid NVR)
- FW5072 (16CH 2 SATA NVR)

## Motorized Zoom & Focus IP Camera

- FW1179-FM (2.0M 39IR LEDs Bullet) 1 Series
- FW1179-MM (1.3M 39IR LEDs Bullet) 1 Series
- FW1179-WM (2.0M WDR 39IR LEDs Bullet) 1 Series
- FW1175-FM (2.0M Vandal Dome)
- FW1175-MM (1.3M Vandal Dome)
- FW1175-WM (2.0M WDR Vandal Dome)
- FW1176-FM (2.0M Plastic Dome)
- FW1176-MM (1.3M Plastic Dome)
- FW1176-WM (2.0M WDR Plastic Dome)

## Cost Effective IP Camera




- FW1179-FV (2.0M 39IR LEDs Bullet) 1 Series
- FW1179-MV (1.3M 39IR LEDs Bullet) 1 Series
- FW1179-WS (2.0M WDR 39IR LEDs Bullet) 1 Series
- FW1175-FV (2.0M Vandal Dome) 1 Series
- FW1175-MV (1.3M Vandal Dome) 1 Series
- FW1176-FV (2.0M Plastic Dome) 1 Series
- FW1176-MV (1.3M Plastic Dome) 1 Series
- FW1174-MC (1.3M Mini Dome)
- FW1174-VC (VGA Mini Dome)
- FW1170-VQ (VGA Cube)

## Video Server






- FW3170 (1CH Encoder)
- FW3471 (4CH Encoder)
- FW2170 (4CH Decoder)

Standard Camera Series		Box			Vandal Dome			Plastic Dome			IR Bullet(50IR LEDs)		
		2.0M	1.3M	2.0M(WDR)	2.0M	1.3M	2.0M(WDR)	2.0M	1.3M	2.0M(WDR)	2.0M	1.3M	
													
Model Name		FW1173-FX	FW1173-MS	FW1173-WS	FW1175-FX	FW1175-MS	FW1175-WS	FW1176-FX	FW1176-MS	FW1176-WS	FW1179-FV	FW1179-MV	
Camera	Image Sensor	1/2.9" CMOS	1/3" MOS	1/3" MOS	1/2.9" CMOS	1/3" MOS	1/3" MOS	1/2.9" CMOS	1/3" MOS	1/3" MOS	1/2.9" 2.43M Progressive scan CMOS	1/3" 1.47M Progressive scan MOS	
	Lens	CS mount	CS mount	CS mount	2.8-10.0mm F1.2 varifocal, auto IRIS	2.8-10.0mm F1.2 varifocal, auto IRIS	2.8-10.0mm F1.2 varifocal, auto IRIS	2.8-10.0mm F1.2 varifocal, auto IRIS	2.8-10.0mm F1.2 varifocal, auto IRIS	2.8-10.0mm F1.2 varifocal, auto IRIS	3.5-16.0mm F1.2 varifocal, auto IRIS	3.6-16.0mm F1.2 varifocal, auto IRIS	
	Min Illumination	0.0016 Lux	0.001 Lux	0.0016 Lux	0.0016 Lux	0.001 Lux	0.0016 Lux	0.0016 Lux	0.001 Lux	0.0016 Lux	0 Lux (IR)	0 Lux (IR)	
	TDN	Auto(ICR), B&W, Sense-up	Auto(ICR), B&W, Sense-up	Auto(ICR), B&W, WDR	Auto(ICR), B&W, Sense-up	Auto(ICR), B&W, Sense-up	Auto(ICR), B&W, WDR	Auto(ICR), B&W, Sense-up	Auto(ICR), B&W, Sense-up	Auto(ICR), B&W, WDR	Auto(ICR), B&W, WDR	Auto(ICR), B&W, Sense-up	Auto(ICR), B&W, Sense-up
	IR LED	-	-	-	24IR LEDs (Optional)	24IR LEDs (Optional)	24IR LEDs (Optional)	24IR LEDs (Optional)	24IR LEDs (Optional)	24IR LEDs (Optional)	24IR LEDs (Optional)	50IR LEDs	50IR LEDs
Video	Compression	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	
	Frame Rate	Max 30fps @ 1920x1080	Max 30fps @ 1280x1024	Max 30fps @ 1280x1024	Max 30fps @ 1920x1080	Max 30fps @ 1280x1024	Max 30fps @ 1280x1024	Max 30fps @ 1920x1080	Max 30fps @ 1280x1024	Max 30fps @ 1280x1024	Max 30fps @ 1280x1024	Max 30fps @ 1920x1080	Max 30fps @ 1280x1024
	Bit Rate Control	VBR/CBR (H.264, 32k-12Mbps)	VBR/CBR (H.264, 32k-12Mbps)	VBR/CBR (H.264, 32k-12Mbps)	VBR/CBR (H.264, 32k-12Mbps)	VBR/CBR (H.264, 32k-12Mbps)	VBR/CBR (H.264, 32k-12Mbps)	VBR/CBR (H.264, 32k-12Mbps)	VBR/CBR (H.264, 32k-12Mbps)	VBR/CBR (H.264, 32k-12Mbps)	VBR/CBR (H.264, 32k-12Mbps)	VBR/CBR (H.264, 32k-12Mbps)	VBR/CBR (H.264, 32k-12Mbps)
	Standard	ONVIF(Profile S) / PSIA(v1.0)	ONVIF(Profile S) / PSIA(v1.0)	ONVIF(Profile S) / PSIA(v1.0)	ONVIF(Profile S) / PSIA(v1.0)	ONVIF(Profile S) / PSIA(v1.0)	ONVIF(Profile S) / PSIA(v1.0)	ONVIF(Profile S) / PSIA(v1.0)	ONVIF(Profile S) / PSIA(v1.0)	ONVIF(Profile S) / PSIA(v1.0)	ONVIF(Profile S) / PSIA(v1.0)	ONVIF(Profile S) / PSIA(v1.0)	ONVIF(Profile S) / PSIA(v1.0)
Audio	In/Out	2 way(1 in / 1 out)	2 way(1 in / 1 out)	2 way(1 in / 1 out)	2 way(1 in / 1 out)	2 way(1 in / 1 out)	2 way(1 in / 1 out)	2 way(1 in / 1 out)	2 way(1 in / 1 out)	2 way(1 in / 1 out)	-	-	
	Compression	8bit G.711, 8KHz, 8KByte/sec	8bit G.711, 8KHz, 8KByte/sec	8bit G.711, 8KHz, 8KByte/sec	8bit G.711, 8KHz, 8KByte/sec	8bit G.711, 8KHz, 8KByte/sec	8bit G.711, 8KHz, 8KByte/sec	8bit G.711, 8KHz, 8KByte/sec	8bit G.711, 8KHz, 8KByte/sec	8bit G.711, 8KHz, 8KByte/sec	8bit G.711, 8KHz, 8KByte/sec	8bit G.711, 8KHz, 8KByte/sec	
Interface	Alarm In/Out	1 DI / 1 DO	1 DI / 1 DO	1 DI / 1 DO	1 DI / 1 DO	1 DI / 1 DO	1 DI / 1 DO	1 DI / 1 DO	1 DI / 1 DO	1 DI / 1 DO	-	-	
	Serial Port	RS-232C/RS-485	RS-232C/RS-485	RS-232C/RS-485	RS-232C/RS-485	RS-232C/RS-485	RS-232C/RS-485	RS-232C/RS-485	RS-232C/RS-485	RS-232C/RS-485	-	-	
	Memory Slot	Micro SDHC	Micro SDHC	Micro SDHC	Micro SDHC	Micro SDHC	Micro SDHC	Micro SDHC	Micro SDHC	Micro SDHC	-	-	
Network	LAN Interface	10/100-base-T (optional PoE)	10/100-base-T (optional PoE)	10/100-base-T (optional PoE)	10/100-base-T (optional PoE)	10/100-base-T (optional PoE)	10/100-base-T (optional PoE)	10/100-base-T (optional PoE)	10/100-base-T (optional PoE)	10/100-base-T (optional PoE)	100-base-T	100-base-T	
	Protocol	HTTP, RTP/RTSP, TCP/IP, FTP, Telnet, SNMP, PAP, CHAP, DHCP, NTP, SMTP client, Upnp, ONVIF	HTTP, RTP/RTSP, TCP/IP, FTP, Telnet, SNMP, PAP, CHAP, DHCP, NTP, SMTP client, Upnp, ONVIF	HTTP, RTP/RTSP, TCP/IP, FTP, Telnet, SNMP, PAP, CHAP, DHCP, NTP, SMTP client, Upnp, ONVIF	HTTP, RTP/RTSP, TCP/IP, FTP, Telnet, SNMP, PAP, CHAP, DHCP, NTP, SMTP client, Upnp, ONVIF	HTTP, RTP/RTSP, TCP/IP, FTP, Telnet, SNMP, PAP, CHAP, DHCP, NTP, SMTP client, Upnp, ONVIF	HTTP, RTP/RTSP, TCP/IP, FTP, Telnet, SNMP, PAP, CHAP, DHCP, NTP, SMTP client, Upnp, ONVIF	HTTP, RTP/RTSP, TCP/IP, FTP, Telnet, SNMP, PAP, CHAP, DHCP, NTP, SMTP client, Upnp, ONVIF	HTTP, RTP/RTSP, TCP/IP, FTP, Telnet, SNMP, PAP, CHAP, DHCP, NTP, SMTP client, Upnp, ONVIF	HTTP, RTP/RTSP, TCP/IP, FTP, Telnet, SNMP, PAP, CHAP, DHCP, NTP, SMTP client, Upnp, ONVIF	HTTP, RTP/RTSP, TCP/IP, FTP, Telnet, SNMP, PAP, CHAP, DHCP, NTP, SMTP client, Upnp, ONVIF	HTTP, RTP/RTSP, TCP/IP, FTP, Telnet, SNMP, PAP, CHAP, DHCP, NTP, SMTP client, Upnp, ONVIF	HTTP, RTP/RTSP, TCP/IP, FTP, Telnet, SNMP, PAP, CHAP, DHCP, NTP, SMTP client, Upnp, ONVIF
	Viewer	IE, Safari, Chrome, Firefox VLC, QuickTime, Smartphone App(IpCamview)	IE, Safari, Chrome, Firefox VLC, QuickTime, Smartphone App(IpCamview)	IE, Safari, Chrome, Firefox VLC, QuickTime, Smartphone App(IpCamview)	IE, Safari, Chrome, Firefox VLC, QuickTime, Smartphone App(IpCamview)	IE, Safari, Chrome, Firefox VLC, QuickTime, Smartphone App(IpCamview)	IE, Safari, Chrome, Firefox VLC, QuickTime, Smartphone App(IpCamview)	IE, Safari, Chrome, Firefox VLC, QuickTime, Smartphone App(IpCamview)	IE, Safari, Chrome, Firefox VLC, QuickTime, Smartphone App(IpCamview)	IE, Safari, Chrome, Firefox VLC, QuickTime, Smartphone App(IpCamview)	IE, Safari, Chrome, Firefox VLC, QuickTime, Smartphone App(IpCamview)	IE, Safari, Chrome, Firefox VLC, QuickTime, Smartphone App(IpCamview)	IE, Safari, Chrome, Firefox VLC, QuickTime, Smartphone App(IpCamview)
Key Function	Remote Admin	Web based administration, setup, control, and upgrade	Web based administration, setup, control, and upgrade	Web based administration, setup, control, and upgrade	Web based administration, setup, control, and upgrade	Web based administration, setup, control, and upgrade	Web based administration, setup, control, and upgrade	Web based administration, setup, control, and upgrade	Web based administration, setup, control, and upgrade	Web based administration, setup, control, and upgrade	Web based administration, setup, control, and upgrade	Web based administration, setup, control, and upgrade	
	Advanced Service	E-mail / FTP / Alarm buffering Event notification	E-mail / FTP / Alarm buffering Event notification	E-mail / FTP / Alarm buffering Event notification	E-mail / FTP / Alarm buffering Event notification	E-mail / FTP / Alarm buffering Event notification	E-mail / FTP / Alarm buffering Event notification	E-mail / FTP / Alarm buffering Event notification	E-mail / FTP / Alarm buffering Event notification	E-mail / FTP / Alarm buffering Event notification	E-mail / FTP / Alarm buffering Event notification	E-mail / FTP / Alarm buffering Event notification	
	Dynamic IP	DDNS / uPnP support	DDNS / uPnP support	DDNS / uPnP support	DDNS / uPnP support	DDNS / uPnP support	DDNS / uPnP support	DDNS / uPnP support	DDNS / uPnP support	DDNS / uPnP support	DDNS / uPnP support	DDNS / uPnP support	
	Motion Detection	HW Detection	HW Detection	HW Detection	HW Detection	HW Detection	HW Detection	HW Detection	HW Detection	HW Detection	HW Detection	HW Detection	
Hardware	Security	Multilevel user password protection	Multilevel user password protection	Multilevel user password protection	Multilevel user password protection	Multilevel user password protection	Multilevel user password protection	Multilevel user password protection	Multilevel user password protection	Multilevel user password protection	Multilevel user password protection	Multilevel user password protection	
	Certification	KC/FCC/CE, RoHS	KC/FCC/CE, RoHS	KC/FCC/CE, RoHS	KC/FCC/CE, RoHS, IP65	KC/FCC/CE, RoHS, IP65	KC/FCC/CE, RoHS, IP65	KC/FCC/CE, RoHS	KC/FCC/CE, RoHS	KC/FCC/CE, RoHS	KC/FCC/CE, RoHS, IP66	KC/FCC/CE, RoHS, IP66	
	Working Condition	-10°C ~ +50°C / 10% ~ 90% RH	-10°C ~ +50°C / 10% ~ 90% RH	-10°C ~ +50°C / 10% ~ 90% RH	-10°C ~ +50°C / 10% ~ 90% RH	-10°C ~ +50°C / 10% ~ 90% RH	-10°C ~ +50°C / 10% ~ 90% RH	-10°C ~ +50°C / 10% ~ 90% RH	0°C ~ +50°C / 10% ~ 90% RH	0°C ~ +50°C / 10% ~ 90% RH	0°C ~ +50°C / 10% ~ 90% RH	-10°C ~ +50°C / 10% ~ 90% RH	
Power Supply	Power Supply	SMPS, DC 12V/1A AC 100/240V, 50/60HZ, 350mA	SMPS, DC 12V/1A AC 100/240V, 50/60HZ, 300mA	SMPS, DC 12V/1A AC 100/240V, 50/60HZ, 300mA	SMPS, DC 12V/1A AC 100/240V, 50/60HZ, 350mA	SMPS, DC 12V/1A AC 100/240V, 50/60HZ, 350mA	SMPS, DC 12V/1A AC 100/240V, 50/60HZ, 350mA	SMPS, DC 12V/1A AC 100/240V, 50/60HZ, 350mA	SMPS, DC 12V/1A AC 100/240V, 50/60HZ, 300mA	SMPS, DC 12V/1A AC 100/240V, 50/60HZ, 300mA	SMPS, DC 12V/3A AC 100/240V, 50/60HZ, 900mA	SMPS, DC 12V/3A AC 100/240V, 50/60HZ, 900mA	
	Size/Weight	70(W) x 108(D) x 66(H) (mm) 0.372Kg w/o SMPS	70(W) x 108(D) x 66(H) (mm) 0.372Kg w/o SMPS	70(W) x 108(D) x 66(H) (mm) 0.372Kg w/o SMPS	148pi x 121(H) (in mm) 0.940Kg w/o SMPS	148pi x 121(H) (in mm) 0.940Kg w/o SMPS	148pi x 121(H) (in mm) 0.940Kg w/o SMPS	148pi x 121(H) (in mm) 0.560Kg w/o SMPS	148pi x 121(H) (in mm) 0.560Kg w/o SMPS	148pi x 121(H) (in mm) 0.560Kg w/o SMPS	92.8pi x 236(L) x 126(H) (mm) 1.10Kg w/o SMPS	92.8pi x 236(L) x 126(H) (mm) 1.10Kg w/o SMPS	

\* Above specifications can be changed without prior notice.

Motorized Zoom & Focus Camera Series		IR Bullet			Vandal Dome			Plastic Dome			
		2.0M	1.3M	2.0M(WDR)	2.0M	1.3M	2.0M(WDR)	2.0M	1.3M	2.0M(WDR)	
											
Model Name		FW1179-FM	FW1179-MM	FW1179-WM	FW1175-FM	FW1175-MM	FW1175-WM	FW1176-FM	FW1176-MM	FW1176-WM	
Camera	Image Sensor	1/2.9" CMOS	1/3" MOS	1/3" MOS	1/2.9" CMOS	1/3" MOS	1/3" MOS	1/2.9" CMOS	1/3" MOS	1/3" MOS	
	Lens	2.8-10.0mm F1.2 varifocal, auto IRIS	2.8-10.0mm F1.2 varifocal, auto IRIS	2.8-10.0mm F1.2 varifocal, auto IRIS	2.8-10.0mm F1.2 varifocal, auto IRIS	2.8-10.0mm F1.2 varifocal, auto IRIS	2.8-10.0mm F1.2 varifocal, auto IRIS	2.8-10.0mm F1.2 varifocal, auto IRIS	2.8-10.0mm F1.2 varifocal, auto IRIS	2.8-10.0mm F1.2 varifocal, auto IRIS	
	Min Illumination	0 Lux (IR)	0 Lux (IR)	0 Lux (IR)	0.0016 Lux	0.001 Lux	0.0016 Lux	0.0016 Lux	0.001 Lux	0.0016 Lux	
	TDN	Auto(ICR), B&W, Sense-up	Auto(ICR), B&W, Sense-up	Auto(ICR), B&W, WDR	Auto(ICR), B&W, Sense-up	Auto(ICR), B&W, Sense-up	Auto(ICR), B&W, WDR	Auto(ICR), B&W, Sense-up	Auto(ICR), B&W, Sense-up	Auto(ICR), B&W, WDR	
	IR LED	39IR LEDs	39IR LEDs	39IR LEDs	-	-	-	-	-	-	
Video	Compression	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	
	Frame Rate	Max 30fps @ 1920x1080	Max 30fps @ 1280x1024	Max 30fps @ 1920x1080	Max 30fps @ 1920x1080	Max 30fps @ 1280x1024	Max 30fps @ 1920x1080	Max 30fps @ 1920x1080	Max 30fps @ 1280x1024	Max 30fps @ 1920x1080	
	Bit Rate Control	VBR/CBR (H.264, 32k-12Mbps)	VBR/CBR (H.264, 32k-12Mbps)	VBR/CBR (H.264, 32k-12Mbps)	VBR/CBR (H.264, 32k-12Mbps)	VBR/CBR (H.264, 32k-12Mbps)	VBR/CBR (H.264, 32k-12Mbps)	VBR/CBR (H.264, 32k-12Mbps)	VBR/CBR (H.264, 32k-12Mbps)	VBR/CBR (H.264, 32k-12Mbps)	
	Standard	ONVIF(Profile S) / PSIA(v1.0)	ONVIF(Profile S) / PSIA(v1.0)	ONVIF(Profile S) / PSIA(v1.0)	ONVIF(Profile S) / PSIA(v1.0)	ONVIF(Profile S) / PSIA(v1.0)	ONVIF(Profile S) / PSIA(v1.0)	ONVIF(Profile S) / PSIA(v1.0)	ONVIF(Profile S) / PSIA(v1.0)	ONVIF(Profile S) / PSIA(v1.0)	
Audio	In/Out	-	-	-	2 way(1 in / 1 out)	2 way(1 in / 1 out)	2 way(1 in / 1 out)	2 way(1 in / 1 out)	2 way(1 in / 1 out)	2 way(1 in / 1 out)	
	Compression	-	-	-	8bit G.711, 8KHz, 8KByte/sec	8bit G.711, 8KHz, 8KByte/sec	8bit G.711, 8KHz, 8KByte/sec	8bit G.711, 8KHz, 8KByte/sec	8bit G.711, 8KHz, 8KByte/sec	8bit G.711, 8KHz, 8KByte/sec	
Interface	Alarm In/Out	-	-	-	1 DI / 1 DO	1 DI / 1 DO	1 DI / 1 DO	1 DI / 1 DO	1 DI / 1 DO	1 DI / 1 DO	
	Serial Port	-	-	-	RS-232C/RS-485	RS-232C/RS-485	RS-232C/RS-485	RS-232C/RS-485	RS-232C/RS-485	RS-232C/RS-485	
	Memory Slot	-	-	-	Micro SDHC	Micro SDHC	Micro SDHC	Micro SDHC	Micro SDHC	Micro SDHC	
Network	LAN Interface	10/100-base-T (optional PoE)	10/100-base-T (optional PoE)	10/100-base-T (optional PoE)	10/100-base-T (optional PoE)	10/100-base-T (optional PoE)	10/100-base-T (optional PoE)	10/100-base-T (optional PoE)	10/100-base-T (optional PoE)	10/100-base-T (optional PoE)	
	Protocol	HTTP, RTP/RTSP, TCP/IP, Telnet, RARP, SNMP, PAP, CHAP, DHCP, NTP, FTP.SMTP client, Upnp,ONVIF	HTTP, RTP/RTSP, TCP/IP, Telnet, RARP, SNMP, PAP, CHAP, DHCP, NTP, FTP.SMTP client, Upnp,ONVIF	HTTP, RTP/RTSP, TCP/IP, Telnet, RARP, PPPoE, SNMP, PAP, CHAP, DHCP, NTP, FTP.SMTP client, Upnp,ONVIF	HTTP, RTP/RTSP, TCP/IP, FTP, Telnet, SNMP, PAP, CHAP, DHCP, NTP, SMTP client, Upnp, ONVIF	HTTP, RTP/RTSP, TCP/IP, Telnet, RARP, SNMP, PAP, CHAP, DHCP, NTP, FTP.SMTP client, Upnp,ONVIF	HTTP, RTP/RTSP, TCP/IP, Telnet, RARP, PPPoE, SNMP, PAP, CHAP, DHCP, NTP, FTP.SMTP client, Upnp,ONVIF	HTTP, RTP/RTSP, TCP/IP, Telnet, RARP, SNMP, PAP, CHAP, DHCP, NTP, FTP.SMTP client, Upnp,ONVIF	HTTP, RTP/RTSP, TCP/IP, Telnet, RARP, PPPoE, SNMP, PAP, CHAP, DHCP, NTP, FTP.SMTP client, Upnp,ONVIF	HTTP, RTP/RTSP, TCP/IP, FTP, Telnet, SNMP, PAP, CHAP, DHCP, NTP, SMTP client, Upnp, ONVIF	
	Viewer	IE, Safari, Chrome, Firefox VLC, QuickTime, Smartphone App(IPcamview)	IE, Safari, Chrome, Firefox VLC, QuickTime, Smartphone App(IPcamview)	IE, Safari, Chrome, Firefox VLC, QuickTime, Smartphone App(IPcamview)	IE, Safari, Chrome, Firefox VLC, QuickTime, Smartphone App(IPcamview)	IE, Safari, Chrome, Firefox VLC, QuickTime, Smartphone App(IPcamview)	IE, Safari, Chrome, Firefox VLC, QuickTime, Smartphone App(IPcamview)	IE, Safari, Chrome, Firefox VLC, QuickTime, Smartphone App(IPcamview)	IE, Safari, Chrome, Firefox VLC, QuickTime, Smartphone App(IPcamview)	IE, Safari, Chrome, Firefox VLC, QuickTime, Smartphone App(IPcamview)	
Key Function	Remote Admin	Web based administration, setup, control, and upgrade	Web based administration, setup, control, and upgrade	Web based administration, setup, control, and upgrade	Web based administration, setup, control, and upgrade	Web based administration, setup, control, and upgrade	Web based administration, setup, control, and upgrade	Web based administration, setup, control, and upgrade	Web based administration, setup, control, and upgrade	Web based administration, setup, control, and upgrade	
	Advanced Service	E-mail / FTP / Alarm buffering Event notification	E-mail / FTP / Alarm buffering Event notification	E-mail / FTP / Alarm buffering Event notification	E-mail / FTP / Alarm buffering Event notification	E-mail / FTP / Alarm buffering Event notification	E-mail / FTP / Alarm buffering Event notification	E-mail / FTP / Alarm buffering Event notification	E-mail / FTP / Alarm buffering Event notification	E-mail / FTP / Alarm buffering Event notification	
	Dynamic IP	DDNS / uPnP support	DDNS / uPnP support	DDNS / uPnP support	DDNS / uPnP support	DDNS / uPnP support	DDNS / uPnP support	DDNS / uPnP support	DDNS / uPnP support	DDNS / uPnP support	
	Motion Detection	H/W Detection	H/W Detection	H/W Detection	H/W Detection	H/W Detection	H/W Detection	H/W Detection	H/W Detection	H/W Detection	
Hardware	Security	Multilevel user password protection	Multilevel user password protection	Multilevel user password protection	Multilevel user password protection	Multilevel user password protection	Multilevel user password protection	Multilevel user password protection	Multilevel user password protection	Multilevel user password protection	
	Certification	KC/FCC/CE, RoHS, IP66	KC/FCC/CE, RoHS, IP66	KC/FCC/CE, RoHS, IP66	KC/FCC/CE, RoHS, IP65	KC/FCC/CE, RoHS, IP65	KC/FCC/CE, RoHS, IP65	KC/FCC/CE, RoHS	KC/FCC/CE, RoHS	KC/FCC/CE, RoHS	
	Working Condition	-10°C ~ +50°C / 10% ~ 90% RH	-10°C ~ +50°C / 10% ~ 90% RH	-10°C ~ +50°C / 10% ~ 90% RH	-10°C ~ +50°C / 10% ~ 90% RH	-10°C ~ +50°C / 10% ~ 90% RH	-10°C ~ +50°C / 10% ~ 90% RH	-10°C ~ +50°C / 10% ~ 90% RH	0°C ~ +50°C / 10% ~ 90% RH	0°C ~ +50°C / 10% ~ 90% RH	0°C ~ +50°C / 10% ~ 90% RH
	Power Supply	SMPS, DC 12V/1A AC 100/240V, 50/60HZ, 300mA	SMPS, DC 12V/1A AC 100/240V, 50/60HZ, 300mA	SMPS, DC 12V/1A AC 100/240V, 50/60HZ, 200mA	SMPS, DC 12V/1A AC 100/240V, 50/60HZ, 350mA	SMPS, DC 12V/1A AC 100/240V, 50/60HZ, 350mA	SMPS, DC 12V/1A AC 100/240V, 50/60HZ, 300mA	SMPS, DC 12V/1A AC 100/240V, 50/60HZ, 350mA	SMPS, DC 12V/1A AC 100/240V, 50/60HZ, 350mA	SMPS, DC 12V/1A AC 100/240V, 50/60HZ, 350mA	SMPS, DC 12V/1A AC 100/240V, 50/60HZ, 300mA
Size/Weight	68pi x 236(L) x 85(H) (in mm) 0.669Kg w/o SMPS	68pi x 236(L) x 85(H) (in mm) 0.669Kg w/o SMPS	68pi x 236(L) x 85(H) (in mm) 0.669Kg w/o SMPS	148pi x 121(H) (in mm) 0.940Kg w/o SMPS	148pi x 121(H) (in mm) 0.940Kg w/o SMPS	148pi x 121(H) (in mm) 0.940Kg w/o SMPS	148pi x 121(H) (in mm) 0.560Kg w/o SMPS	148pi x 121(H) (in mm) 0.560Kg w/o SMPS	148pi x 121(H) (in mm) 0.560Kg w/o SMPS	148pi x 121(H) (in mm) 0.560Kg w/o SMPS	


\* Above specifications can be changed without prior notice.


Cost-effective Camera Series		IR Bullet (39IR LEDs)			Vandal Dome		Plastic Dome		Mini Dome		Cube
		2.0M	1.3M	2.0M(WDR)	2.0M	1.3M	2.0M	1.3M	1.3M	VGA	VGA
											
Model Name		FW1179-FV	FW1179-MV	FW1179-WS	FW1175-FV	FW1175-MV	FW1176-FV	FW1176-MV	FW1174-MC	FW1174-VC	FW1170-VQ
Camera	Image Sensor	1/2.9" CMOS	1/3" MOS	1/3" MOS	1/2.9" CMOS	1/3" MOS	1/2.9" CMOS	1/3" MOS	1/3" MOS	1/4" Optical CMOS	1/4" Optical CMOS
	Lens	2.8-10.0mm F1.2 varifocal, auto IRIS	2.8-10.0mm F1.2 varifocal, auto IRIS	2.8-10.0mm F1.2 varifocal, auto IRIS	2.8-10.0mm F1.2 varifocal, auto IRIS	2.8-10.0mm F1.2 varifocal, auto IRIS	2.8-10.0mm F1.2 varifocal, auto IRIS	2.8-10.0mm F1.2 varifocal, auto IRIS	3.8mm F2.0 fixed	3.6mm F1.8 fixed	3.6mm F1.8 fixed
	Min Illumination	0 Lux (IR)	0 Lux (IR)	0 Lux (IR)	0.0016 Lux	0.001 Lux	0.0016 Lux	0.001 Lux	0.1 Lux	1 Lux	1 Lux
	TDN	Auto(ICR), B&W, Sense-up	Auto(ICR), B&W, Sense-up	Auto(ICR), B&W, WDR	Auto(ICR), B&W, Sense-up	Auto(ICR), B&W, Sense-up	Auto(ICR), B&W, Sense-up	Auto(ICR), B&W, Sense-up	D&N	D&N	D&N
	IR LED	39IR LEDs	39IR LEDs	39IR LEDs	30IR LEDs (Optional)	30IR LEDs (Optional)	30IR LEDs (Optional)	30IR LEDs (Optional)	-	-	-
Video	Compression	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG
	Frame Rate	Max 30fps @ 1920x1080	Max 30fps @ 1280x1024	Max 30fps @ 1920x1080	Max 30fps @ 1920x1080	Max 30fps @ 1280x1024	Max 30fps @ 1920x1080	Max 30fps @ 1280x1024	Max 30fps @ 1280x1024	Max 30fps @ 640x480	Max 30fps @ 640x480
	Out	-	-	-	-	-	-	-	-	-	-
	Bit Rate Control	VBR/CBR (H.264, 32k-12Mbps)	VBR/CBR (H.264, 32k-12Mbps)	VBR/CBR (H.264, 32k-12Mbps)	VBR/CBR (H.264, 32k-12Mbps)	VBR/CBR (H.264, 32k-12Mbps)	VBR/CBR (H.264, 32k-12Mbps)	VBR/CBR (H.264, 32k-12Mbps)	VBR/CBR (H.264, 32k-12Mbps)	VBR/CBR (H.264, 32k-12Mbps)	VBR/CBR (H.264, 32k-12Mbps)
Audio	Standard	ONVIF(Profile S)	ONVIF(Profile S)	ONVIF(Profile S) / PSIA(v1.0)	ONVIF(Profile S) / PSIA(v1.0)	ONVIF(Profile S) / PSIA(v1.0)	ONVIF(Profile S) / PSIA(v1.0)	ONVIF(Profile S) / PSIA(v1.0)	ONVIF(Profile S) / PSIA(v1.0)	ONVIF(Profile S) / PSIA(v1.0)	ONVIF(Profile S) / PSIA(v1.0)
	In/Out	-	-	-	-	-	-	-	-	-	-
	Compression	-	-	-	-	-	-	-	-	-	-
Interface	Alarm In/Out	-	-	-	-	-	-	-	-	-	-
	Memory Slot	-	-	-	Micro SDHC (optional)	Micro SDHC (optional)	Micro SDHC (optional)	Micro SDHC (optional)	Micro SDHC	Micro SDHC	-
Network	LAN Interface	10/100-base-T (optional PoE)	10/100-base-T (optional PoE)	10/100-base-T (optional PoE)	10/100-base-T (optional PoE)	10/100-base-T (optional PoE)	10/100-base-T (optional PoE)	10/100-base-T (optional PoE)	10/100-base-T (optional PoE)	10/100-base-T (optional PoE)	10/100-base-T (PoE)
	Protocol	HTTP, RTP/RTSP, TCP/IP, Telnet, RARP, SNMP, PAP, CHAP, DHCP, NTP, FTP,SMTP client, Upnp,ONVIF	HTTP, RTP/RTSP, TCP/IP, Telnet, RARP, SNMP, PAP, CHAP, DHCP, NTP, FTP,SMTP client, Upnp,ONVIF	HTTP, RTP/RTSP, TCP/IP, Telnet, RARP, SNMP, PAP, CHAP, DHCP, NTP, FTP,SMTP client, Upnp,ONVIF	HTTP, RTP/RTSP, TCP/IP, Telnet, RARP, PPPoE, SNMP, PAP, CHAP, DHCP, NTP, FTP,SMTP client, Upnp,ONVIF	HTTP, RTP/RTSP, TCP/IP, Telnet, RARP, PPPoE, SNMP, PAP, CHAP, DHCP, NTP, FTP,SMTP client, Upnp,ONVIF	HTTP, RTP/RTSP, TCP/IP, Telnet, RARP, PPPoE, SNMP, PAP, CHAP, DHCP, NTP, FTP,SMTP client, Upnp,ONVIF	HTTP, RTP/RTSP, TCP/IP, Telnet, RARP, PPPoE, SNMP, PAP, CHAP, DHCP, NTP, FTP,SMTP client, Upnp,ONVIF	HTTP, RTP/RTSP, TCP/IP, Telnet, RARP, PPPoE, SNMP, PAP, CHAP, DHCP, NTP, FTP,SMTP client, Upnp,ONVIF	HTTP, RTP/RTSP, TCP/IP, Telnet, RARP, PPPoE, SNMP, PAP, CHAP, DHCP, NTP, FTP,SMTP client, Upnp,ONVIF	HTTP, RTP/RTSP, TCP/IP, Telnet, RARP, PPPoE, SNMP, PAP, CHAP, DHCP, NTP, FTP,SMTP client, Upnp,ONVIF
	Viewer	IE, Safari, Chrome, Firefox VLC, QuickTime, Smartphone App(IPcamview)	IE, Safari, Chrome, Firefox VLC, QuickTime, Smartphone App(IPcamview)	IE, Safari, Chrome, Firefox VLC, QuickTime, Smartphone App(IPcamview)	IE, Safari, Chrome, Firefox VLC, QuickTime, Smartphone App(IPcamview)	IE, Safari, Chrome, Firefox VLC, QuickTime, Smartphone App(IPcamview)	IE, Safari, Chrome, Firefox VLC, QuickTime, Smartphone App(IPcamview)	IE, Safari, Chrome, Firefox VLC, QuickTime, Smartphone App(IPcamview)	IE, Safari, Chrome, Firefox VLC, QuickTime, Smartphone App(IPcamview)	IE, Safari, Chrome, Firefox VLC, QuickTime, Smartphone App(IPcamview)	IE, Safari, Chrome, Firefox VLC, QuickTime, Smartphone App(IPcamview)
Key Function	Remote Admin	Web based administration, setup, control, and upgrade	Web based administration, setup, control, and upgrade	Web based administration, setup, control, and upgrade	Web based administration, setup, control, and upgrade	Web based administration, setup, control, and upgrade	Web based administration, setup, control, and upgrade	Web based administration, setup, control, and upgrade	Web based administration, setup, control, and upgrade	Web based administration, setup, control, and upgrade	Web based administration, setup, control, and upgrade
	Advanced Service	E-mail / FTP / Alarm buffering Event notification	E-mail / FTP / Alarm buffering Event notification	E-mail / FTP / Alarm buffering Event notification	E-mail / FTP / Alarm buffering Event notification	E-mail / FTP / Alarm buffering Event notification	E-mail / FTP / Alarm buffering Event notification	E-mail / FTP / Alarm buffering Event notification	E-mail / FTP / Alarm buffering Event notification	E-mail / FTP / Alarm buffering Event notification	E-mail / FTP / Alarm buffering Event notification
	Dynamic IP	DDNS / uPnP support	DDNS / uPnP support	DDNS / uPnP support	DDNS / uPnP support	DDNS / uPnP support	DDNS / uPnP support	DDNS / uPnP support	DDNS / uPnP support	DDNS / uPnP support	DDNS / uPnP support
	Motion Detection	H/W Detection	H/W Detection	H/W Detection	H/W Detection	H/W Detection	H/W Detection	H/W Detection	H/W Detection	H/W Detection	H/W Detection
Hardware	Certification	KC/FCC/CE, RoHS, IP66	KC/FCC/CE, RoHS, IP66	KC/FCC/CE, RoHS, IP66	KC/FCC/CE, RoHS, IP66	KC/FCC/CE, RoHS, IP66	KC/FCC/CE, RoHS	KC/FCC/CE, RoHS	KC/FCC/CE, RoHS	KC/FCC/CE, RoHS	KC/FCC/CE, RoHS
	Working Condition	-10°C ~ +50°C / 10% ~ 90% RH	-10°C ~ +50°C / 10% ~ 90% RH	-10°C ~ +50°C / 10% ~ 90% RH	-10°C ~ +50°C / 10% ~ 90% RH	-10°C ~ +50°C / 10% ~ 90% RH	0°C ~ +50°C / 20% ~ 80% RH	0°C ~ +50°C / 20% ~ 80% RH	0°C ~ +50°C / 20% ~ 80% RH	0°C ~ +50°C / 20% ~ 80% RH	0°C ~ +50°C / 20% ~ 80% RH
	Power Supply	SMPS, DC 12V/1A AC 100/240V, 50/60HZ, 300mA	SMPS, DC 12V/1A AC 100/240V, 50/60HZ, 300mA	SMPS, DC 12V/1A AC 100/240V, 50/60HZ, 300mA	SMPS, DC 12V/1A AC 100/240V, 50/60HZ, 200mA	SMPS, DC 12V/1A AC 100/240V, 50/60HZ, 200mA	SMPS, DC 12V/1A AC 100/240V, 50/60HZ, 200mA	SMPS, DC 12V/1A AC 100/240V, 50/60HZ, 200mA	SMPS, DC 12V/1A AC 100/240V, 50/60HZ, 200mA	SMPS, DC 12V/1A AC 100/240V, 50/60HZ, 150mA	SMPS, DC 12V/1A AC 100/240V, 50/60HZ, 150mA
	Size/Weight	68pi x 236(L) x 85(H) (in mm) 0.669Kg w/o SMPS	68pi x 236(L) x 85(H) (in mm) 0.669Kg w/o SMPS	68pi x 236(L) x 85(H) (in mm) 0.669Kg w/o SMPS	145Ø x 120(H) (in mm) 0.885Kg w/o SMPS	145Ø x 120(H) (in mm) 0.885Kg w/o SMPS	130Ø x 100(H) (in mm) 0.500Kg w/o SMPS	130Ø x 100(H) (in mm) 0.500Kg w/o SMPS	95pi x 70(H) (in mm) 0.190Kg w/o SMPS	95pi x 70(H) (in mm) 0.190Kg w/o SMPS	64(W) x 113(H) x 47(D) 0.160Kg w/o SMPS

\* Above specifications can be changed without prior notice.

Video Server & Hybrid NVR		Video Server(Encoder)		Hybrid NVR	
		1CH	4CH	4ch Analog + 12ch IP	8ch Analog + 8ch IP
					
Model Name		FW3170	FW3471	FW5470	FW5870
Video	Analog Input	1ch (NTSC/PAL)	4ch (NTSC/PAL)	4 Ch (NTSC/PAL)	8 Ch (NTSC/PAL)
	Out	1 out	-	1 Quad Out	1 Multiplexed Out
	Compression	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG
	Frame Rate	Max 30 fps @ 720x480(720x576)	Max 120fps @ 720x480(720x576)	Max 120fps @ 720x480(720x576)	Max 120fps @ 720x480(720x576)
	Max IP Stream	-	-	12IP Stream Channel	8 IP Stream Channel
	Bit Rate Control	VBR/CBR (H.264, 32k-12Mbps)	VBR/CBR (H.264, 32k-12Mbps)	VBR/CBR (H.264, 32k-12Mbps)	VBR/CBR (H.264, 32k-12Mbps)
Recording	Max Recording Rate	-	Max 120fps @ 720x480(720x576)	Max 120fps @ 720x480(720x576)	Max 120fps @ 720x480(720x576)
	IP Stream Recording	-	-	H.264/MPEG-4/MJPEG multivendor stream support	H.264/MPEG-4/MJPEG multivendor stream support
	HDD	-	1 SATA (Max 2TB)	1 SATA (Max 2TB)	1 SATA (Max 2TB)
	Recording Conditions	-	Always, Motion, Event, Schedule	Always, Motion, Event, Schedule	Always, Motion, Event, Schedule
Audio	In/Out	2 way(1 in / 1 out)	2 way(1 in / 1 out)	2 way(1 in / 1 out)	2 way(8 in / 1 out)
	Compression	8bit G.711, 8KHz, 8KByte/sec	8bit G.711, 8KHz, 8KByte/sec	4bit G.723, 8KHz, 6KByte/sec	4bit G.723, 8KHz, 6KByte/sec
Interface	PTZ Support	PTZ control on remote viewer	PTZ control on remote viewer	PTZ control on remote viewer	PTZ control on remote viewer
	Alarm In/Out	1 DI / 1 DO	4 DI / 4 DO	4 DI / 4 DO	8 DI / 8 DO
	Serial Port	RS-232C/RS-485	RS-232C/RS-485	RS-232C/RS-485	RS-232C/RS-485
	Peripheral Interface	-	-	USB 2.0	USB 2.0
	Memory Slot	-	Micro SDHC	1 SATA (Max 2TB)	1 SATA (Max 2TB)
Network	LAN Interface	10/100-base-T	10/100-base-T	10/100/1000-base-T	10/100/1000-base-T
	Protocol	HTTP, RTP/RTSP, TCP/IP, FTP, Telnet, RARP, PPPoE, SNMP, PAP, CHAP, DHCP, NTP, SMTP client, uPNP and etc	HTTP, RTP/RTSP, TCP/IP, FTP, Telnet, RARP, PPPoE, SNMP, PAP, CHAP, DHCP, NTP, SMTP client, uPNP and etc	HTTP, RTP/RTSP, TCP/IP, FTP, Telnet, RARP, PPPoE, SNMP, PAP, CHAP, DHCP, NTP, SMTP client, uPNP and etc	HTTP, RTP/RTSP, TCP/IP, FTP, Telnet, RARP, PPPoE, SNMP, PAP, CHAP, DHCP, NTP, SMTP client, uPNP and etc
	Viewer	IE, Safari, Chrome, Firefox etc CMS, QuickTime	IE, Safari, Chrome, Firefox etc CMS, QuickTime	IE, Safari, Chrome, Firefox etc CMS, QuickTime	IE, Safari, Chrome, Firefox etc CMS, QuickTime
	Player	-	-	Remote playback web application	Remote playback web application
Key Function	Remote Admin	Web based administration, setup, control, and upgrade	Web based Administration, Setup, Control, and Upgrade	Web based administration, setup, control, and upgrade	Web based administration, setup, control, and upgrade
	Advanced Service	E-mail / FTP / Alarm buffering Event notification	E-mail / FTP / Alarm buffering Event notification	E-mail / FTP / Alarm buffering Event notification	E-mail / FTP / Alarm buffering Event notification
	Dynamic IP	DDNS / uPNP support	DDNS / uPNP support	DDNS / uPNP support	DDNS / uPNP support
	Motion Detection	H/W Detection	H/W Detection	H/W Detection	H/W Detection
	Security	Multilevel user password protection	Multilevel user password protection	Multilevel user password protection	Multilevel user password protection
Hardware	Rack Mount	-	Optional Rack Mount	Optional Rack Mount	Optional Rack Mount
	Certification	KCC/FCC/CE, RoHS	KCC/FCC/CE, RoHS	KCC/FCC/CE, RoHS	KCC/FCC/CE, RoHS
	Working Condition	-10°C ~ +50°C / 20% ~ 80% RH	-10°C ~ +50°C / 20% ~ 80% RH	-10°C ~ +50°C / 20% ~ 80% RH	-10°C ~ +50°C / 20% ~ 80% RH
	Power Supply	SMPS, DC 12V/1A AC 100/240V, 300mA	SMPS, DC 12V/1A AC 100/240V, 300mA	SMPS, DC 12V/5A AC 100/240V, 1.5A	SMPS, DC 12V/5A AC 100/240V, 1.5A
	Size/Weight	85(W) x 110(D) x 39(H) (in mm) 0.214Kg w/o SMPS	148(W) x 118(D) x 25(H) (in mm) 0.25kg w/o SMPS	280(W) x 224(D) x 44(H)mm 1.60Kg w/o SMPS & HDD	280(W) x 224(D) x 44(H)mm 1.70kg w/o SMPS & HDD

\* Above specifications can be changed without prior notice.

NVR		NVR
		16ch
		
Model Name		FW5072
Video	Max Channel	16 IP channel
	Frame Rate	Max 240 fps @ HD
	Compression	H.264/MPEG-4/MJPEG
	Supported Resolution	QXGA(2048x1536)-VGA
	Streaming Function	Retransmission(Proxy) Video/Audio/PTZ/DI/DO
	Recording	Max Recording Rate
Recording Stream		Video / Audio / Data
HDD		2 SATA (Max 4TB)
Recording Condition		Always, Motion, Event, Schedule
Interface	PTZ Support	PTZ control on remote viewer
	Serial Port	RS-232C
	Peripheral Interface	USB2.0
Network	LAN Interface	10/100/1000-base-T
	Protocol	HTTP, TCP/IP, FTP, Telnet, RARP, PPPoE, SNMP, PAP, CHAP, DHCP, NTP, SMTP client, uPNP and etc
	Viewer	IE, Safari, Chrome, Firefox etc CMS, QuickTime
	Player	Remote playback web application
Key Function	Remote Admin	Web based administration, setup, control, and upgrade
	Advanced Service	Event notification
	Dynamic IP	DDNS / uPNP support
	Motion Detection	Motion recording
	Security	Multilevel password channel-wise privilege
Hardware	Rack Mountable	-
	Certification	KCC/FCC/CE, RoHS
	Working Condition	-10°C ~ +50°C / 20% ~ 80% RH
	Power Supply	SMPS, DC 12V/5A AC 100/240V, 1.5A
	Size/Weight	378(W) x 267(D) x 64(H)mm About 2.30kg w/o SMPS & HDD

Decoder		Media Decoder
		4ch circulation
		
Model Name		FW2170
Video	Max Channel	4 IP channel
	Out	1 HDMI, 1 Composite, 1 Component
	Display	4:3 / 16:9 Monitor
	Compression	H.264/MJPEG
	Max Display Rate	Max 30 fps @ 1280 x 1024
	Display Mode	1ch or 4ch Circulation
Audio	In/Out	2 way(1 in / 1 out)
	Compression	8bit G.711, 8KHz, 8KByte/sec
Interface	PTZ Support	PTZ control on display
	Serial Port	RS-232C/RS-485
	Peripheral Interface	-
Network	Memory Slot	-
	LAN Interface	10/100-base-T
Key Function	Protocol	HTTP, TCP/IP, FTP, Telnet, RARP, PPPoE, SNMP, PAP, CHAP, DHCP, NTP, SMTP client, uPNP and etc
	Remote Admin	Web based administration, setup, control, and upgrade
	Advanced Service	E-mail / FTP notification
Hardware	Security	Multilevel password channel-wise privilege
	Rack Mountable	Optional Rack Mountable
	Certification	KCC/FCC/CE, RoHS
	Certification	KCC/FCC/CE, RoHS
	Working Condition	-10°C ~ +50°C / 20% ~ 80% RH
	Power Supply	SMPS, DC 12V/1A AC 100/240V, 500mA
Size/Weight	Size/Weight	85(W) x 110(D) x 39(H) (in mm) About 0.214kg w/o SMPS

Speed Dome & Specialty Camera		Speed Dome					Mobile IR Camera
		2M IR 20x	2M 20x		D1 37x/33x/27x/12x		2.0M
							
Model Name	FW1177-FR	FW1177-FP	FW1177-FK	FW1177-DE	FW1178-DI	FW1193-FG	
Camera	Image Sensor	1/3" 2.2M Progressive scan CMOS	1/2.8" 3.2M Progressive scan CMOS	1/2.8" 3.2M Progressive scan CMOS	1/4" 410 K Super HAD CCD 700 TV line	1/4" 410 K Super HAD CCD 600 TV Lines	1/2.9" 2.43M Progressive scan CMOS
	Lens	4.7 ~ 94.0mm 20x optical, 32x digital	4.7 ~ 94.0mm 20x optical, 10x digital	4.7 ~ 94.0mm 20x optical	3.5 ~ 129.5mm 37x optical, 16x digital (Optional 33x/27x)	3.94 ~ 46.5mm 12x optical, 16x digital	3.15mm (F2.0) Fixed
	Min Illumination	0.0005 Lux (IR)	0.00005 Lux	0.00005 Lux	0.00004 Lux	0.004 Lux	0.0016Lux
Video	TDN	Auto(ICR), B&W, DSS, WDR	Auto(ICR), B&W, DSS, WDR	Auto(ICR), B&W, DSS, WDR	Auto(ICR), B&W, DSS, WDR	Auto(ICR), B&W, DSS, WDR	Auto(ICR), B&W, DSS
	Compression	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG
	Frame Rate	Max 30fps @ 1920x1080	Max 30fps @ 1920x1080	Max 30fps @ 1920x1080	Max 30fps @ 720x480(720x576)	Max 30fps @ 720x480(720x576)	Max 30fps @ 720x480(720x576)
	Out	HD-SDI & Composite V out	Composite V out	Composite V out	Composite V out	Composite V out	-
	Bit Rate Control	VBR/CBR (H.264, 32k~12Mbps)	VBR/CBR (H.264, 32k~12Mbps)	VBR/CBR (H.264, 32k~12Mbps)	VBR/CBR (H.264, 32k~12Mbps)	VBR/CBR (H.264, 32k~12Mbps)	VBR/CBR (H.264, 32k~12Mbps)
	Standard	ONVIF(Profile S) / PSIA(v1.0)	ONVIF(Profile S) / PSIA(v1.0)	ONVIF(Profile S) / PSIA(v1.0)	ONVIF(Profile S) / PSIA(v1.0)	ONVIF(Profile S) / PSIA(v1.0)	ONVIF(Profile S) / PSIA(v1.0)
	In/Out	2 way(1 in / 1 out)	2 way(1 in / 1 out)	2 way(1 in / 1 out)	2 way(1 in / 1 out)	2 way(1 in / 1 out)	-
Audio	Compression	8bit G.711, 8KHz, 8KByte/sec	8bit G.711, 8KHz, 8KByte/sec	8bit G.711, 8KHz, 8KByte/sec	8bit G.711, 8KHz, 8KByte/sec	8bit G.711, 8KHz, 8KByte/sec	-
Interface	Alarm In/Out	1 DI / 1 DO	1 DI / 1 DO	1 DI / 1 DO	1 DI / 1 DO	1 DI / 1 DO	-
	Serial Port	RS-485	RS-232C/RS-485	RS-232C/RS-485	RS-232C/RS-485	RS-485	-
	Peripheral Interface	-	-	-	-	-	-
	Memory Slot	Micro SDHC	Micro SDHC	Micro SDHC	-	Micro SDHC	-
Network	LAN Interface	10/100-base-T (optional PoE)	10/100-base-T (optional PoE)	10/100-base-T (optional PoE)	10/100-base-T	10/100-base-T	10/100-base-T
	Protocol	HTTP, RTP/RTSP, TCP/IP, FTP, Telnet, RARP, PPPoE, SNMP, PAP, CHAP, DHCP, NTP, SMTP client, uPNP, ONVIF	HTTP, RTP/RTSP, TCP/IP, FTP, Telnet, RARP, PPPoE, SNMP, PAP, CHAP, DHCP, NTP, SMTP client, uPNP, ONVIF	HTTP, RTP/RTSP, TCP/IP, FTP, Telnet, RARP, PPPoE, SNMP, PAP, CHAP, DHCP, NTP, SMTP client, uPNP, ONVIF	HTTP, RTP/RTSP, TCP/IP, FTP, Telnet, RARP, PPPoE, SNMP, PAP, CHAP, DHCP, NTP, SMTP client, uPNP, ONVIF	HTTP, RTP/RTSP, TCP/IP, FTP, Telnet, RARP, PPPoE, SNMP, PAP, CHAP, DHCP, NTP, SMTP client, uPNP, ONVIF	HTTP, RTP/RTSP, TCP/IP, FTP, Telnet, RARP, PPPoE, SNMP, PAP, CHAP, DHCP, NTP, SMTP client, uPNP, ONVIF
	Viewer	IE, Safari, Chrome, Firefox VLC, QuickTime, Smartphone App(IPcamview)	IE, Safari, Chrome, Firefox VLC, QuickTime, Smartphone App(IPcamview)	IE, Safari, Chrome, Firefox VLC, QuickTime, Smartphone App(IPcamview)	IE, Safari, Chrome, Firefox VLC, QuickTime, Smartphone App(IPcamview)	IE, Safari, Chrome, Firefox VLC, QuickTime, Smartphone App(IPcamview)	IE, Safari, Chrome, Firefox VLC, QuickTime, Smartphone App(IPcamview)
Key Function	Remote Admin	Web based administration, setup, control, and upgrade	Web based administration, setup, control, and upgrade	Web based administration, setup, control, and upgrade	Web based administration, setup, control, and upgrade	Web based administration, setup, control, and upgrade	Web based administration, setup, control, and upgrade
	Advanced Service	E-mail / FTP / Alarm buffering Event notification	E-mail / FTP / Alarm buffering Event notification	E-mail / FTP / Alarm buffering Event notification	E-mail / FTP / Alarm buffering Event notification	E-mail / FTP / Alarm buffering Event notification	E-mail / FTP / Alarm buffering Event notification
	Dynamic IP	DDNS / uPnP support	DDNS / uPnP support	DDNS / uPnP support	DDNS / uPnP support	DDNS / uPnP support	DDNS / uPnP support
	Motion Detection	H/W Detection	H/W Detection	H/W Detection	H/W Detection	H/W Detection	H/W Detection
Hardware	Certification	KC/FCC/CE, RoHS, IP67	KC/FCC/CE, RoHS, IP66	KC/FCC/CE, RoHS, IP66	KC/FCC/CE, RoHS, IP66	KC/FCC/CE, RoHS, IP67(Outdoor)	KC/FCC/CE, RoHS
	Working Condition	-50°C ~ +70°C / 0% ~ 90% RH	-40°C ~ +50°C / 10% ~ 90% RH	-40°C ~ +50°C / 10% ~ 90% RH	-10°C ~ +50°C / 10% ~ 90% RH	-20°C ~ +50°C / 10°C ~ +50°C	-10°C ~ +50°C / 10% ~ 90% RH
	Power Supply	AC21~26V, 50/60HZ, AC 100/240V, 45W	SMPS, DC 12V/3A AC 100/240V, 50/60HZ, 1.2A	SMPS, DC 12V/3A AC 100/240V, 50/60HZ, 1.2A	AC 24~26V/1.5A AC 100/240V, 50/60HZ, 21W	SMPS, DC 12V 1.5A AC 100/240V, 50/60HZ,	SMPS, DC 12V/1A AC 100/240V, 50/60HZ, 300mA
	Size/Weight	231pi x 385(H) (in mm) 6.4Kg w/o SMPS & brac.	235pi x 314(H) (in mm) 5.5Kg w/o SMPS & brac.	235pi x 314(H) (in mm) 5.5Kg w/o SMPS & brac.	216.8pi x 289.2(H) (in mm) 4.3Kg w/o Adaptor & brac.	131pi x 162.5(H) 1.40Kg	125pi x 129.4(H) 0.8kg

\* Above specifications can be changed without prior notice.

## Software



### Smart NVR

- Web based IP Video management software
- Real-time live-view, recording and playback
- Megapixel & Multi vendor camera support
- Advanced monitoring functions
- Support up to 128 ch



### IPcamVision (Smart Phone App)

- Support iOS & Android
- Lite : 4ch Live View
- Pro : Live View, Playback, Audio, PTZ Control



### IP Installer

- Search & IP Setup for FlexWATCH products
- Server, Camera setup and update by CGI
- Apply to All Functions for Easy Setup