





HD/1,280 x 960 H.264 True Day/Night Network Camera with ABF (Auto Back Focus)

Key Features

- 720p HD images up to 30 fps
- Newly developed 1.3 Megapixel high sensitivity MOS Sensor
- Multiple H.264 (High profile) streams and JPEG streams ensure simultaneous real time monitoring and high resolution recording by "UniPhier®", Panasonic's proprietary System LSI platform.
- Full frame (Up to 30 fps) transmission at 1,280 x 960 image size
- Wide Dynamic Range and ABS (Adaptive Black Stretch) technologies deliver wider dynamic range compared with conventional cameras.
- Face Wide Dynamic Range technology ensures clear face image.
- H.264 and MPEG-4 are selectable for system migration.
- High sensitivity with Day/Night function: 0.3 lx (Color), 0.05 lx (B/W) at F1.4
- VIQS (Variable Image Quality on Specified area) technology allows the designated area to retain higher image quality while the excluded area will have a decreased image quality, which enables to use lower image file size and bit rate.
- ABF (Auto Back Focus) ensures easy installation.
- Digital Noise Reduction: 3D-DNR ensures noise reduction in various conditions.
- Progressive scan ensures clear images with less motion blur and no tearing even when the subject is moving.
- Superior color reproduction by primary (RGB) color filter
- Electronic sensitivity enhancement: Auto (Up to 16x) / OFF
- Selectable light control modes: Outdoor / Indoor / ELC / Fixed electronic shutter
 Outdoor / Indoor: Electronic shutter and ALC lens iris control are
 automatically controlled depending on the mode and luminance level.
 ELC: Up to 1/10,000 Electronic shutter is automatically applied for a fix iris lens.
 Fixed electronic shutter: Up to 1/10,000 fixed electronic shutter can be selectable.
- VMD (Video Motion Detector) with 4 programmable detection areas,
 15 steps sensitivity level and 10 steps detection size
- Face detection function detects the position of human face and the information is sent by XML or video stream.
- Meta data for VMD is supplied to work with the WJ-ND400 playback VMD function.
- Privacy Zone can mask up to 2 private areas, such as house windows and entrances/exits.
- 2x extra zoom at VGA resolution
- 2x, 4x digital zoom controlled by browser
- Camera title display: Up to 20 alphanumeric characters on the browser, Up to 20 alphanumeric characters embedded in the image

- Alarm sources including 1 terminal input, VMD and Panasonic alarm command can trigger actions such as SDHC/SD memory recording, FTP image transfer, E-mail notification, Indication on browser, Alarm terminal output, and Panasonic protocol output.
- Full duplex bi-directional audio allows interactive communication between camera site and monitoring site.
- JPEG Image compression ratio can be changed by alarm so that higher quality image can be provided.
- Prioritized stream control: One of the video streams can be prioritized when multiple recorders or client PCs are accessing the camera so that the recorder or the client PC can maintain the frame rate.
- SDHC/SD Memory card slot for manual recording (H.264 / JPEG), alarm recording (H.264 / JPEG) and backup upon network failure (JPEG)
- H.264/MPEG-4 max. bit rate/client and Total bit rate control allows flexible network traffic management. Frame rate priority mode controls bit rate and compression ratio to provide the specified frame rate.
- Alarm log, Manual REC log, FTP error log saved in the SDHC/SD memory card is displayed on the browser GUI and can be downloaded to the client PC. Playback or Image data download through the log is also available.
- Internet mode: H.264/MPEG-4 images can be transmitted over HTTP protocol.
- Multi-language: English / Italian / French / German / Spanish / Russian / Chinese / Japanese
- IPv4/IPv6 protocol supported
- Supports DDNS (viewnetcam, RFC2136)
- Still images (JPEG) can be viewed on mobile phones via Internet.
- Analog Monitor output for easier installation
- ONVIF compliant model

Standard Accessories

CD-ROM*1
The followings are for installation. Power Cord Plug

- *1 The CD-ROM contains the operating instructions (PDFs) and different kinds of tool software programs.
 *2 This label may be required for network management. The network administrator shall retain the code label.

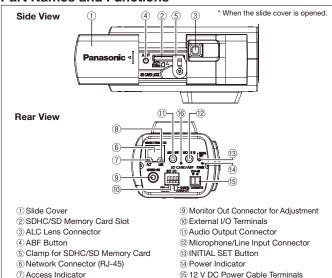
Specifications

	1		NTSC PAL		
Camera	Image Sensor		1/3 type MOS Sensor		
	Effective Pixels		Approx. 1.3 megapixel		
	Scanning Mode		Progressive scan		
	Scanning Area		4.8 mm (H) x 3.6 mm (V) {3/16 inches (H) x 5/32 inches (V)}		
	Minimum Illumination		Color: 0.3 lx, B/W: 0.05 lx at F1.4 (Shutter: 1/30 s, AGC: High),		
			Color: 0.019 lx, B/W: 0.003 lx at F1.4 (Shutter: 16/30 s, AGC: High)		
	M/hita Dala				
	White Bala		AWC (2,000 ~ 10,000 K), ATW1 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,000 K)		
	Light Control Mode		Outdoor: Automatic integration of ALC and ELC		
			Indoor [50 Hz]: Automatic integration of ALC and ELC (up to 1/100 s)		
			Indoor [60 Hz]: Automatic integration of ALC and ELC (up to 1/120 s)		
			ELC: (up to 1/10,000 s)		
	Shutter Speed		Fix shutter: OFF (1/30), 3/100, 3/120, 2/100, 2/120, 1/100,		
			1/120, 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000		
	Wide Dyna	ımic Range	ON / OFF ON / OFF (Only at Wide Dynamic Range: ON) ON / OFF (Only at Wide Dynamic Range: OFF) ON (LOW, MID, HIGH) / OFF		
		Dynamic Range			
		Black Stretch			
	AGC	adort Ott Ottori			
	Electronic Sensitivity UP		OFF / AUTO (Max. 2x (2/30 s), 4x (4/30 s), 6x (6/30 s), 10x (10/30 s), 16x (16/30 s))		
	Black and White Mode		Mode: AUTO1 / AUTO2 / ON / OFF, Level: High / Low, with external control		
	Digital Noise Reduction		High / Low		
	Video Motion Detection		4 areas, Sensitivity: 15 steps, Detection size: 10 steps		
	Privacy Zone		Up to 2 zones, Gray		
	VIQS		ON / OFF		
	Camera Title (OSD)		Up to 20 alphanumeric characters		
	Back Focus Adjustment		ABF/MANUAL, ABF mode upon CL/BW switching: AUTO / PRESET / FIX		
Browser	Camera Co		Brightness, AUX ON / OFF		
GUI	Display Mo		Spot, Quad: Image from 16 cameras can be displayed in 4 different Quad		
	pispiay wode		screens or 16 split screen (JPEG only). 20 characters camera title available.		
	Digital Zoom		1x, 2x, 4x controlled by browser GUI		
	Camera Title		Up to 20 alphanumeric characters		
	Clock Display		Time: 12H/24H, Date: 5 formats on the browser, Summer time (Auto / Manual)		
	Alarm Control		Reset		
	One Shot (Capture	A still picture will be displayed on a newly opened window.		
	Audio SD Memory Data Download		Mic (Line) Input: ON / OFF Volume adjustment: Low / Middle / High,		
			Audio Output: ON / OFF Volume adjustment: Low / Middle / High		
			Still or motion Images recorded in the SDHC/SD memory card can be downloaded.		
	GUI/Setup Menu Language		English, Italian, French, German, Spanish, Russian, Chinese, Japanese		
	System Log		Up to 100 (Internal), Up to 4,000 (SDHC/SD memory when the		
			recording format is set to JPEG.) error logs		
	Supported	OS	Microsoft® Windows® 7 Professional 64 bit/32 bit,		
	Supported OS		Microsoft® Windows Vista® Business SP1 32 bit,		
			_ ·		
			Microsoft® Windows® XP Professional SP3		
			The language of the OS must be same as selected GUI language.		
	Supported Browser		Windows® Internet Explorer® 9.0 (32 bit),		
			Windows® Internet Explorer® 8.0 (32 bit),		
			Windows® Internet Explorer® 7.0 (32 bit),		
			Microsoft® Internet Explorer® 6.0 SP3		
Network	Network IF		10Base-T / 100Base-TX, RJ-45 connector		
-	Image		H.264: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps		
	Resolution		MPEG-4: VGA (640 × 480) / QVGA (320 × 240), up to 30 fps		
	*1 *2	[JPEG: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps		
	' -	Acnost roti - :			
	1		H.264: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps		
	11.00	[16:9]	JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps		
	H.264/	Transmission	Constant bitrate / Framerate priority / Best effort		
	MPEG-4		Constant bitrate / Framerate priority / Best effort		
		Transmission			
	MPEG-4	Transmission Mode	Constant bitrate / Framerate priority / Best effort		
	MPEG-4	Transmission Mode Frame Rate	Constant bitrate / Framerate priority / Best effort 1/3/5/7.5/10/12/15/20/30 fps 64/128/256/384/512/768/1,024/1,536/2,048/3,072/		
	MPEG-4	Transmission Mode Frame Rate Bit Rate/ Client	Constant bitrate / Framerate priority / Best effort 1/3/5/7.5/10/12/15/20/30 fps 64/128/256/384/512/768/1,024/1,536/2,048/3,072/4,096/8096* kbps / Unlimited * H.264 mode only		
	MPEG-4	Transmission Mode Frame Rate Bit Rate/ Client Image Quality	Constant bitrate / Framerate priority / Best effort 1/3/5/7.5/10/12/15/20/30 fps 64/128/256/384/512/768/1,024/1,536/2,048/3,072/ 4,096/8096* kbps / Unlimited * H.264 mode only LOW / NORMAL / FINE		
	MPEG-4	Transmission Mode Frame Rate Bit Rate/ Client Image Quality Refresh Interval	Constant bitrate / Framerate priority / Best effort 1/3/5/7.5/10/12/15/20/30 fps 64/128/256/384/512/768/1,024/1,536/2,048/3,072/ 4,096/8096* kbps/ Unlimited * H.264 mode only LOW / NORMAL / FINE 0.2 s/0.25 s/0.33 s/0.5 s/1 s/2 s/3 s/4 s/5 s		
	MPEG-4	Transmission Mode Frame Rate Bit Rate/ Client Image Quality Refresh Interval Transmission Type	Constant bitrate / Framerate priority / Best effort 1/3/5/7.5/10/12/15/20/30 fps 64/128/256/384/512/768/1,024/1,536/2,048/3,072/ 4,096/8096* kbps / Unlimited * H.264 mode only LOW / NORMAL / FINE 0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / 2 s / 3 s / 4 s / 5 s UNICAST / MULTICAST		
	MPEG-4	Transmission Mode Frame Rate Bit Rate/ Client Image Quality Refresh Interval Transmission Type Image Quality	Constant bitrate / Framerate priority / Best effort 1/3/5/7.5/10/12/15/20/30 fps 64/128/256/384/512/768/1,024/1,536/2,048/3,072/4,096/8096* kbps / Unlimited * H.264 mode only LOW / NORMAL / FINE 0.2 s/0.25 s/0.33 s/0.5 s/1 s/2 s/3 s/4 s/5 s UNICAST / MULTICAST 10 steps		
	MPEG-4 11	Transmission Mode Frame Rate Bit Rate/ Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type	Constant bitrate / Framerate priority / Best effort 1/3/5/7.5/10/12/15/20/30 fps 64/128/256/384/512/768/1,024/1,536/2,048/3,072/4,096/8096* kbps / Unlimited * H.264 mode only LOW / NORMAL / FINE 0.2 s/0.25 s/0.33 s/0.5 s/1 s/2 s/3 s/4 s/5 s UNICAST / MULTICAST 10 steps PULL / PUSH		
	MPEG-4 *1 JPEG Audio Com	Transmission Mode Frame Rate Bit Rate/ Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type	Constant bitrate / Framerate priority / Best effort 1/3/5/7.5/10/12/15/20/30 fps 64/128/256/384/512/768/1,024/1,536/2,048/3,072/4,096/8096* kbps / Unlimited * H.264 mode only LOW / NORMAL / FINE 0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / 2 s / 3 s / 4 s / 5 s UNICAST / MULTICAST 10 steps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps		
	MPEG-4 1 JPEG Audio Com Audio Mod	Transmission Mode Frame Rate Bit Rate/ Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type Transmission Type Transmission Type	Constant bitrate / Framerate priority / Best effort 1/3/5/7.5/10/12/15/20/30 fps 64/128/256/384/512/768/1,024/1,536/2,048/3,072/4,096/8096* kbps / Unlimited * H.264 mode only LOW / NORMAL / FINE 0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / 2 s / 3 s / 4 s / 5 s UNICAST / MULTICAST 10 steps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)		
	MPEG-4 1 JPEG Audio Com Audio Mod	Transmission Mode Frame Rate Bit Rate/ Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type Transmission Type Transmission Type	Constant bitrate / Framerate priority / Best effort 1/3/5/7.5/10/12/15/20/30 fps 64/128/256/384/512/768/1,024/1,536/2,048/3,072/4,096/8096* kbps / Unlimited * H.264 mode only LOW / NORMAL / FINE 0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / 2 s / 3 s / 4 s / 5 s UNICAST / MULTICAST 10 steps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps		
	MPEG-4 1 JPEG Audio Com Audio Mod	Transmission Mode Frame Rate Bit Rate/ Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type Transmissio	Constant bitrate / Framerate priority / Best effort 1/3/5/7.5/10/12/15/20/30 fps 64/128/256/384/512/768/1.024/1,536/2,048/3,072/4,096/8096* kbps / Unlimited * H.264 mode only LOW / NORMAL / FINE 0.2 s/0.25 s/0.33 s/0.5 s/1 s/2 s/3 s/4 s/5 s UNICAST / MULTICAST 10 steps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users		
	JPEG Audio Com Audio Mod	Transmission Mode Frame Rate Bit Rate/ Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type pression de tion for Audio ate	Constant bitrate / Framerate priority / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 8096* kbps / Unlimited * H.264 mode only LOW / NORMAL / FINE 0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / 2 s / 3 s / 4 s / 5 s UNICAST / MULTICAST 10 steps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited		
	JPEG Audio Com Audio Moc Authentica Total Bit R	Transmission Mode Frame Rate Bit Rate/ Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type pression de tion for Audio ate	Constant bitrate / Framerate priority / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 8096* kbps / Unlimited * H.264 mode only LOW / NORMAL / FINE 0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / 2 s / 3 s / 4 s / 5 s UNICAST / MULTICAST 10 steps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited IPv6: TCP/IP, UDP/IP, HTTP, RTP, FTP, SMTP, DNS, NTP,		
	JPEG Audio Com Audio Moc Authentica Total Bit R	Transmission Mode Frame Rate Bit Rate/ Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type pression de tion for Audio ate	Constant bitrate / Framerate priority / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 8096' kbps / Unlimited * H.264 mode only LOW / NORMAL / FINE 0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / 2 s / 3 s / 4 s / 5 s UNICAST / MULTICAST 10 steps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 44 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited IPv6: TCP/IP, UDP/IP, HTTP, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, ICMPv6		
	JPEG Audio Com Audio Moc Authentica Total Bit R	Transmission Mode Frame Rate Bit Rate/ Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type pression de tion for Audio ate	Constant bitrate / Framerate priority / Best effort 1/3/5/7.5/10/12/15/20/30 fps 64/128/256/384/512/768/1.024/1,536/2,048/3,072/4,096/8096* kbps / Unlimited * H.264 mode only LOW / NORMAL / FINE 0.2 s/0.25 s/0.33 s/0.5 s/1 s/2 s/3 s/4 s/5 s UNICAST / MULTICAST 10 steps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 64/128/256/384/512/768/1,024/2,048/4,096/8,192 kbps / Unlimited IPv6: TCP/IP, UDP/IP, HTTP, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, ICMPv6 IPv4: TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, FTP,		
	MPEG-4 1 JPEG Audio Com Audio Moc Authentica Total Bit R Supported	Transmission Mode Frame Rate Bit Rate/ Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type Image Guality Transmission Type Image Type Image Quality Transmission Type Interval T	Constant bitrate / Framerate priority / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 8096* kbps / Unlimited * H.264 mode only LOW / NORMAL / FINE 0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / 2 s / 3 s / 4 s / 5 s UNICAST / MULTICAST 10 steps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited IPv6: TCP/IP, UDP/IP, HTTP, RTP, FTP, SMTP, DNS, NTP, SMP, DHCPv6, ICMPv6 IPv4: TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP		
	JPEG Audio Com Audio Moc Authentica Total Bit R	Transmission Mode Frame Rate Bit Rate/ Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type Image Guality Transmission Type Image Type Image Quality Transmission Type Interval T	Constant bitrate / Framerate priority / Best effort 1/3/5/7.5/10/12/15/20/30 fps 64/128/256/384/512/768/1,024/1,536/2,048/3,072/4,096/8096* kbps / Unlimited * H.264 mode only LOW / NORMAL / FINE 0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / 2 s / 3 s / 4 s / 5 s UNICAST / MULTICAST 10 steps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 64/128/256/384/512/768/1,024/2,048/4,096/8,192 kbps / Unlimited IPv6: TCP/IP, UDP/IP, HTTP, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, ICMPv6 IPv4: TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP Alarm image transfer, Periodic image transfer, Active/Passive		
	MPEG-4 1 JPEG Audio Com Audio Moc Authentica Total Bit R Supported	Transmission Mode Frame Rate Bit Rate/ Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type Image Guality Transmission Type Image Type Image Quality Transmission Type Interval T	Constant bitrate / Framerate priority / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 8096' kbps / Unlimited * H.264 mode only LOW / NORMAL / FINE 0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / 2 s / 3 s / 4 s / 5 s UNICAST / MULTICAST 10 steps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited IPv6: TCP/IP, UDP/IP, HTTP, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, ICMPv6 IPv4: TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP Alarm image transfer, Periodic image transfer, Active/Passive selectable (When the FTP periodic transmission is failed,		
	MPEG-4 1 JPEG Audio Com Audio Moc Authentica Total Bit R Supported	Transmission Mode Frame Rate Bit Rate/ Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type Image Guality Transmission Type Image Type Image Quality Transmission Type Interval T	Constant bitrate / Framerate priority / Best effort 1/3/5/7.5/10/12/15/20/30 fps 64/128/256/384/512/768/1,024/1,536/2,048/3,072/4,096/8096* kbps / Unlimited * H.264 mode only LOW / NORMAL / FINE 0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / 2 s / 3 s / 4 s / 5 s UNICAST / MULTICAST 10 steps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 64/128/256/384/512/768/1,024/2,048/4,096/8,192 kbps / Unlimited IPv6: TCP/IP, UDP/IP, HTTP, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, ICMPv6 IPv4: TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP Alarm image transfer, Periodic image transfer, Active/Passive		

TV Systen	n	NTSC	PAL	
Network	SDHC/SD Memory Card	H.264 recording: Manual REC / Alarm REC (Pre/Post)		
	(Option)	JPEG recording: Manual REC / Alarm REC (Post) / Backup upon		
		network failure Compatible SD (SDHC) card: Panasonic 256 MB,		
		512 MB, 1 GB, 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB* model * SDHC card		
	Face Detection	ON / OFF (with XML notification)		
	Cellular Phone Compatibility	JPEG image		
	Mobile Terminal Compatibility*3	iPad, iPhone, iPod touch (iOS 4.2.1 or later) , Android™ mobile terminals		
Alarm	Alarm Source	1 terminal input, VMD, Command alarm		
	Alarm Actions	SDHC/SD memory recording, E-mail notification, Alarm terminal output,		
		Indication on browser, FTP image transfer, Panasonic protocol output		
	Alarm Log	With SDHC/SD memory card: 5,000 logs, without SDHC/SD memory card: 1,000 logs		
	Schedule	Alarm / VMD / Access permission / H.264 recording		
Input/	Monitor Output	1.0 V [p-p] / 75 Ω,	1.0 V [p-p] / 75 Ω,	
Output	(for adjustment)	NTSC composite, RCA Jack	PAL composite, RCA Jack	
	Microphone/Line Input	MIC IN and Line IN are selectable. ø3.5 mm stereo mini jack		
		(monaural input) (Applicable microphone; Plug-in power type)		
		Supply voltage: 2.5 V ±0.5 V input impedance: approx. 2 kΩ		
	Audio Output	ø3.5 mm stereo mini jack (monaural output) Line level		
	External I/O Terminals	ALARM IN / DAY/NIGHT IN, ALARM OUT, AUX OUT		
General	Safety/EMC Standard	UL (UL60065), FCC (Part15 ClassA),	CE (EN55022 ClassB, EN55024)	
		C-UL (CAN/CSA C22.2 No.60065),		
		DOC (ICES003 ClassA)		
	Power Source and Consumption	, , . , , , , , , , , , , ,		
	Ambient Operating	-10 °C ~ +50 °C (14 °F ~ 122 °F),		
	Temperature/Humidity	Less than 90 % (no condensation	on)	
	Dimensions	$75~\text{mm (W)} \times 65~\text{mm (H)} \times 132.5 \\ \text{mm (L)} \; (2\text{-}31/32\text{" (W)} \times 2\text{-}9/16\text{" (H)} \times 5\text{-}1/4\text{" (L)})$		
	Mass (approx.)	410 g (0.9 lbs.)		

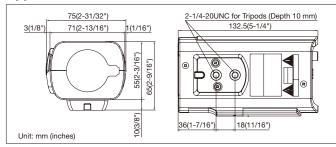
^{*†} H.264 and MPEG-4 are alternative. *2 [4:3] and [16:9] are alternative. *3 For further information about compatible devices, refer to our website (http://panasonic.net/pss/security/support/info.html).

Part Names and Functions



Appearance

® Link Indicator



- Trademarks and registered trademarks

 Microsoft, and Windows are registered trademarks of Microsoft Corporation in the U.S. and other countries.

 iPad, iPhone and iPod touch are registered trademarks of Apple Inc.

 UnliPhier is a registered trademark of Panasonic Corporation.

 "Super Dynamic", "SDI", "SDI", "SD5", "SD5Link", "i-PRO" and "i-PRO SmartHD" logos are trademarks or registered trademarks of Panasonic Corporation.

 ONVIF and the ONVIF logo are trademarks of ONVIF Inc.

- Important

 Safety Precaution: carefully read the operating instructions and installation manual before using this product.

 Panasonic can not be responsible for network performance and/or other manufacturer products that reside on the network.
- All TV pictures are simulated.
- Masses and dimensions are approximate.
- Specifications are subject to change without notice.
 These products may be subject to export control regulations.
- · All product pictures are NTSC models.

DISTRIBUTED BY:



(6) SDHC/SD Memory Card Error Indicator /

ABF Indicator

http://panasonic.net/security/ http://www.facebook.com/PanasonicNetworkCamera