

What was once...

AUDIO ENHANGEMENT

IMPOSSIBLE ...IS NOW REALITY

AUDIO ENHANCEMENT.

EduCamB60

360° Network Camera Features Multiview Options

Developed specifically for the education market

Manufactured by Panasonic in partnership with Audio Enhancement, the pioneers of classroom audio, the EduCam360[™] allows educators, adminstrators and security personnel to see the entire classroom—all at once!

Choose one or all angles

View multiple, simultaneous angles of the classroom in high definition quality with the EduCam360. Choose full circle 360° panoramic, two 180° double panoramas, four quarter 90° or a simple single stream view.

You've never seen quality like this before

Super Dynamic SmartHD provides clarity like never before with the EduCam360. The sharp 1080p image even provides a clear image of the whiteboard.

Bring the EduCam360 to your school

Teachers, administrators and school resource officers will appreciate the most advanced, multiple-view educational camera available today.

Features include:

- 360° monitoring with a wide variety of transmission modes: Wall Panorama, Double Panorama, Quad PTZ, Single PTZ, and Quad streams (H.264/VGA)
- Rolling mechanism conceals lens for Privacy Mode, blocking all recording functionality.
- 1080p Full HD images up to 30 fps.
- Multiple H.264 (High profile) streams and JPEG streams ensure simultaneous real time monitoring and high resolution recording by enhanced "UniPhier®".
- Smooth PTZ operation without mechanical action.
- Built-in distortion correction function.
- Fish-eye lens control function realizes intelligible screen operation intuitively.
- VMD (Video Motion Detector) with 4 programmable detection areas, 15 steps sensitivity level and 10 steps detection size.
- Alarm sources including 3 terminal input, VMD can trigger actions such as FTP image transfer, Email 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.
- Supports SSL, DDNS (viewnetcam, RFC2136)



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EduCam360[™] Specifications

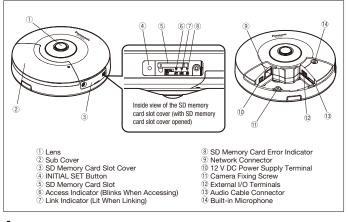
Camera	1		NTSC PAL	
	Image Se		1/3 type MOS Sensor	
	Effective Pixels		Approx. 3.1 megapixels	
	Scanning Mode Scanning Area		Progressive	
			4.51 mm (H) × 3.38 mm (V) {3/16 inches (H) x 1/8 inches (V)} Color: 1.5 lx (F2.4, Auto slow shutter: Off (1/30s), Gain:On(High))	
	Minimum Illumination		Color: 0.1 lx (F2.4, Auto slow shutter: Max. 16/30s, Gain:On(High)) *1	
			BW: 1.2 lx (F2.4, Auto slow shutter: Off (1/30s), Gain:On(High))	
			BW: 0.08 lx (F2.4, Auto slow shutter: Off (16/30s), Gain:On(High)) *1	
	White Balance		AWC (2,000 ~ 10,000 K), ATW1 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,000 K)	
	Light Control Mode		Indoor scene (50 Hz / 60 Hz) / ELC	
	Shutter Speed		With Super Dynamic On	
			ELC (1/30 s)	
			With Super Dynamic Off	
			ELC (1/30 s), ELC (3/100 s), ELC (3/120 s), ELC (2/100 s), ELC (2/120 s),	
			ELC (1/100 s), ELC (1/120 s), ELC (1/250 s), ELC (1/500 s), ELC (1/1,000 s)	
			ELC (1/2,000 s), ELC (1/4,000 s), ELC (1/10,000 s)	
	Super-Dynamic		ON/OFF	
	Dynamic Range		52 dB typ. (only at Super-Dynamic On)	
	Adaptive Black Stretch		On/Off (only at Super-Dynamic Off)	
	AGC		ON (HIGH) / ON (MID) / ON (LOW) / OFF	
	Electronic Sensitivity UP		OFF (1/30 s), Max. 2/30 s, Max. 4/30 s, Max. 6/30 s, Max. 10/30 s, Max. 16/30 s	
	Day & Night(electrical)		OFF / AUTO	
	Digital Noise Reduction		HIGH / LOW	
	Video Motion Detection		ON / OFF, 4 areas available	
	Video analytics Face Detection		Off/On/On with face frame display	
	Auto mode: Self return:		However, face detection is not supported when "Fisheye" or "Quad streams" i	
			selected for the image type.	
			Auto pan/ Preset sequence	
			Auto mode can only be used when the image type is Quad PTZ or Single PTZ. 10 s/ 20 s/ 30 s/ 1 min/ 2 min/ 3 min/ 5 min/ 10 min/ 20 min/ 30 min/ 60 min	
	John Helunn.		Self return can only be used when the image type is Quad PTZ or Single PTZ.	
	Privacy Zone		ON / OFF (up to 4 zones available)	
	VIQS		On/OFF (up to 4 zones available) On/Off (up to 2 areas available)	
			However, the VIQS function is not supported when "Quad PTZ", "Single PTZ" of	
			"Quad streams" are selected.	
Lens	Camera Title (OSD)		Up to 20 characters (alphanumeric characters, marks), On/Off	
	Focal Length		However, you can specify characters to be displayed on each of the four screen	
			when "Quad streams" is selected.	
			0.837 mm	
	Angular Field of View		Horizontal: 182 °, Vertical: 176 °	
	Maximum Aperture Ratio		1:2.4 (Fixed)	
	Focusing		0.3 m ~ ∞	
Browser	Camera	Control	Pan/Tilt/Digital Zoom, Preset, Auto Mode, Self Return, Fisheye Control, Brightness	
GUI			AUX ON / OFF	
	Display N	/lode	Spot, Quad: Image from 16 cameras can be displayed in 4 different Quad	
			screens or 16 split screen (JPEG only). 20 characters camera title available	
	Digital Zo	om	1x, 2x, 4x controlled by browser GUI (Quad PTZ or Single PTZ mode)	
			1x ~4x (Panorama, Double Panorama, 3M Fisheye mode)	
	Camera ⁻		Up to 20 alphanumeric characters	
	Clock Display		Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manual	
	Alarm Control		Reset	
	One Shot Capture		A still picture will be displayed on a newly opened window.	
	Audio		Mic (Line) Input: ON / OFF Volume adjustment: Low / Middle / High	
			Audio Output: ON / OFF Volume adjustment: Low / Middle / High	
		ry Data Download	Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded.	
		o Menu Language	English, Italian, French, German, Spanish, Russian, Chinese, Japanese	
	System L	.og	Up to 100 (Internal), Up to 4,000 (SDXC/SDHC/SD memory when the recording format is act to UPEC) array load	
	Supported OS *0 *2		format is set to JPEG.) error logs	
	Supporte	nd US \$5 \$3		
	Supporte	ed OS *2 *3	Microsoft® Windows® 7, Microsoft® Windows Vista®, Microsoft® Windows® XP SP3	
			Microsoft® Windows® XP SP3	
		ed OS *2 *3 ed Browser	Microsoft® Windows® XP SP3 Windows® Internet Explorer® 9.0 (32 bit), Windows® Internet Explorer® 8.0(32 bit)	
Network	Supporte	ed Browser	Microsoft® Windows® XP SP3 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		ed Browser	Microsoft® Windows® XP SP3 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 10Base=T / 100Base=TX, RJ-45 connector (female)	
Network	Supporte Network II	ed Browser F 2M Panorama[16:9]/	Microsoft* Windows* XP SP3 Windows* Internet Explore* 0 (32 bit), Windows* Internet Explore* 8.0(32 bit) Windows* Internet Explore* 7.0 (32 bit), Microsoft* Internet Explore* 6.0 SP3 10Base+ 7 / 100Base+ 7 X, RJ-45 connector (female) H.264(1): 1920x1080 / 640x360 / 320x180, up to 30 fps	
Network	Supporte Network II Image	ed Browser F 2M Panorama[16:9]/ 2M Double	Microsoft* Windows* XP SP3 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 10Base-T / 100Base-TX, RJ-45 connector (female) H.264(1): 1920x1080 / 640x360 / 320x180, up to 30 fps H.264(2): 640x360 / 320x180, up to 30 fps	
Network	Supporte Network II Image Resolution	ed Browser F 2M Panorama[16:9]/	Microsoft* Windows* XP SP3 Windows* Internet Explore* 0 (32 bit), Windows* Internet Explore* 8 0(32 bit) Windows* Internet Explore* 7.0 (32 bit), Microsoft* Internet Explore* 6.0 SP3 10Base+ 1 / 100Base+ 7 X, RJ-45 connector (female) H.264(1): 1920x1080 / 640x160 / 320x180, up to 30 fps	
Network	Supporte Network II Image Resolution	ed Browser F 2M Panorama[16:9]/ 2M Double Panorama [16:9]:	Microsoft* Windows* XP SP3 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 10Base-T / 100Base-TX, RJ-45 connector (female) H.264(1): 1920x1080 / 640x360 / 320x180, up to 30 fps H.264(2): 640x360 / 320x180, up to 30 fps H.264(1): 1280x720 / 640x360 / 320x180, up to 30 fps H.264(1): 1280x720 / 640x360 / 320x180, up to 30 fps H.264(2): 640x360 / 320x180, up to 30 fps H.264(2): 640x360 / 320x180, up to 30 fps	
Network	Supporte Network II Image Resolution	ed Browser F 2M Panorama[16:9]/ 2M Double Panorama [16:9]: 1.3M Panorama [16:9]/	Microsoft* Windows* XP SP3 Windows* Internet Explore* 0.0 (26 bit), Windows* Internet Explore* 8.0 (26 bit) Windows* Internet Explore* 7.0 (32 bit), Microsoft* Internet Explore* 6.0 SP3 10Base+T / 100Base+T / 145 connector (female) H.264(1): 1280x1080 / 640x360 / 320x180, up to 30 fps H.264(2): 640x360 / 320x180, up to 30 fps JPEG: 1280x720 / 640x360 / 320x180, up to 30 fps	
Network	Supporte Network II Image Resolution	ed Browser P 2M Panorama[16:9]/ 2M Double Panorama [16:9]: 1.3M Panorama [16:9]/ 1.3M Double Panorama [16:9]: Panorama + Quad PTZ/	Microsoft* Windows* XP SP3 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 10Base-T / 100Base-T / 100Bas	
Network	Supporte Network II Image Resolution	A Browser F 2M Panorama[16:9]/ 2M Double Panorama [16:9]/ 1.3M Panorama [16:9]/ Panorama 10:9]/ Panorama 10:40 PTZ/ Panorama + Single PTZ/	Microsoft* Windows* XP SP3 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 10Base-T / 100Base-TX, RJ-45 connector (female) H.264(1); 1920x1080 / 640x360 / 320x180, up to 30 fps H.264(2); 640x360 / 320x180, up to 30 fps H.264(1); 1280x720 / 640x360 / 320x180, up to 30 fps H.264(1); 1280x720 / 640x360 / 320x180, up to 30 fps H.264(1); 1280x720 / 640x360 / 320x180, up to 30 fps H.264(2); 1280x720 / 640x360 / 320x180, up to 30 fps H.264(1); 1280x720 / 640x360 / 320x180, up to 30 fps H.264(1); 1280x720 / 640x360 / 320x180, up to 30 fps H.264(1); 1280x720 / 640x360 / 320x180, up to 30 fps	
Network	Supporte Network II Image Resolution	Panorama [16:9]/ 2M Panorama [16:9]/ 2M Double Panorama [16:9]: 1.3M Panorama [16:9]: Panorama [16:9]: Panorama + Single PTZ/ Double Panorama	Microsoft* Windows* XP SP3 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 10Base-T / 100Base-TX, RJ-45 connector (female) H.264(1): 1920x1080 / 640x360 / 320x180, up to 30 fps H.264(2): 640x360 / 320x180, up to 30 fps H.264(1): 1200x720 / 640x360 / 320x180, up to 30 fps J.PEG: 1200x100 / 640x360 / 320x180, up to 30 fps J.PEG: 120x100 / 640x360 / 320x180, up to 51 fps J.PEG: 120x100 / 640x360 / 320x180, up to 15 fps J.PEG: 120x100 / 640x360 / 320x180, up to 15 fps	
Network	Supporte Network II Image Resolution	Panorama [16:9/ 2M Panorama [16:9/ 2M Double Panorama [16:9]: 1.3M Panorama [16:9]: Panorama 10:40 PI/ Panorama + Sunge PIZ/ Double Panorama + Quad PTZ/	Microsoft* Windows* XP SP3 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 10Base-T / 10DBase-TX, RJ-45 connector (female) H.264(1): 1920x1080 / 640x360 / 320x180, up to 30 fps H.264(2): 640x360 / 320x180, up to 30 fps H.264(1): 1920x1080 / 640x360 / 320x180, up to 30 fps H.264(1): 1920x1080 / 640x360 / 320x180, up to 31 fps H.264(1): 1920x1080 / 640x360 / 320x180, up to 35 fps JPEG: 1920x1080 / 640x360 / 320x180, up to 15 fps JPEG: 1920x1080 / 640x360 / 320x180, up to 15 fps JWhen using distribution of "Quad PTZ" or "Single PTZ"	
Network	Supporte Network II Image Resolution	ed Browser 2M Panorama[16:9]; 2M Double Panorama [16:9]; 1.3M Panorama [16:9]; Panorama 16:9]; Panorama 16:9]; Panorama 16:9]; Panorama 16:9]; Panorama 16:9]; Panorama 16:9]; Double Panorama + Quad PTZ/ Double Panorama	Microsoft* Windows* XP SP3 Windows* Internet Explore* 0.0 (2b bit), Windows* Internet Explore* 8.0 (32 bit), Windows* Internet Explore* 8.0 (32 bit), Windows* Internet Explore* 6.0 SP3 10Base-T / 100Base-TX, RJ-45 connector (female) H.264(1): 1280x1080 / 640x360 / 320x180, up to 30 fps H.264(1): 1280x720 / 640x360 / 320x180, up to 30 fps H.264(2): 640x360 / 320x180, up to 30 fps JPEG: 1280x4080 / 640x60 / 320x180, up to 30 fps JPEG: 1280x4080 / 640x60 / 320x180, up to 15 fps JPEG: 1320x1080 / 640x60 / 320x180, up to 15 fps JPEG: 1320x60 / 640x60 / 320x180, up to 15 fps When using distribution of "Quad PTZ" or "Single PTZ" H.264(2): 1280x60 / 640x60 / 320x180, up to 15 fps	
Network	Supporte Network II Image Resolution	2M Parovanaj (16:9)/ 2M Panoramaj (16:9)/ 2M Double Panoramaj (16:9)/ 1.3M Panoramaj (16:9)/ Panorama (16:9)/ Panorama (16:9)/ Panorama (16:9)/ Panorama (16:9)/ Panorama (16:9)/ Panorama (16:9)/ Panorama (16:9)/ Panorama (16:9)/ Panorama (16:9)/ Double Panorama + Single PTZ:	Microsoft* Windows* XP SP3 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 10Base-T / 100Base-TX, RJ-45 connector (female) H264(1): 1920x1080 / 640x360 / 320x180, up to 30 fps H.264(2): 640x360 / 320x180, up to 30 fps H.264(1): 120x720 / 640x360 / 320x180, up to 30 fps JPEG: 120x70 / 640x360 / 320x180, up to 30 fps JPEG: 120x70 / 640x360 / 320x180, up to 30 fps JPEG: 120x1080 / 640x360 / 320x180, up to 30 fps JPEG: 120x1080 / 640x360 / 320x180, up to 15 fps JPEG: 120x1080 / 640x360 / 320x180, up to 15 fps JPEG: 120x1080 / 640x480 / 320x240, up to 15 fps JPEG: 120x660 / 640x480 / 320x240, up to 15 fps JPEG: 120x660 / 640x480 / 320x240, up to 15 fps JPEG: 120x660 / 640x480 / 320x240, up to 15 fps JPEG: 120x660 / 640x480 / 320x240, up to 15 fps JPEG: 120x660 / 640x480 / 320x240, up to 15 fps	
Network	Supporte Network II Image Resolution	ed Browser 2M Panorama[16:9]; 2M Double Panorama [16:9]; 1.3M Panorama [16:9]; Panorama 16:9]; Panorama 16:9]; Panorama 16:9]; Panorama 16:9]; Panorama 16:9]; Panorama 16:9]; Double Panorama + Quad PTZ/ Double Panorama	Microsoft* Windows* XP SP3 Windows* Internet Explore* 0.0 (82 bit), Windows* Internet Explore* 8.0(82 bit) Windows* Internet Explore* 7.0 (32 bit), Microsoft* Internet Explore* 6.0 SP3 10Base+ 1 / 100Base+ 7, RJ-45 connector (female) H.264(1): 1920x1080 / 640x360 / 320x180, up to 30 fps H.264(2): 640x360 / 320x180, up to 30 fps JPEG: 1920x1080 / 640x360 / 320x180, up to 30 fps H.264(1): 1280x720 / 640x360 / 320x180, up to 30 fps H.264(1): 1280x720 / 640x360 / 320x180, up to 30 fps H.264(2): 640x360 / 320x180, up to 30 fps JPEG: 1280x720 / 640x360 / 320x180, up to 30 fps JPEG: 1280x720 / 640x360 / 320x180, up to 30 fps JPEG: 1280x720 / 640x360 / 320x180, up to 31 fps JPEG: 1280x720 / 640x360 / 320x180, up to 15 fps When using distribution of "Vall Panorama" or "Double panorama" H.264(1): 1280x760 / 640x360 / 320x180, up to 15 fps JPEG: 1280x60 / 640x480 / 320x240, up to 15 fps JPEG: 1280x60 / 640x480 / 320x240, up to 15 fps JPEG: 1280x60 / 640x480 / 320x240, up to 15 fps JPEG: 1280x60 / 640x480 / 320x240, up to 15 fps	
Network	Supporte Network II Image Resolution	2M Parovanaj (16:9)/ 2M Panoramaj (16:9)/ 2M Double Panoramaj (16:9)/ 1.3M Panoramaj (16:9)/ Panorama (16:9)/ Panorama (16:9)/ Panorama (16:9)/ Panorama (16:9)/ Panorama (16:9)/ Panorama (16:9)/ Panorama (16:9)/ Panorama (16:9)/ Panorama (16:9)/ Double Panorama + Single PTZ:	Microsoft* Windows* XP SP3 Windows* Internet Explorer* 3.0 (32 bit), Windows* Internet Explorer* 8.0 (32 bit), Windows* Internet Explorer* 6.0 SP3 10Base-T / 100Base-TX, RJ-45 connector (female) H.264(1): 12920x1080 / 640x360 / 320x180, up to 30 fps H.264(1): 12920x1080 / 640x360 / 320x180, up to 30 fps H.264(2): 640x360 / 320x180, up to 30 fps J.PEG: 1280x720 / 640x360 / 320x180, up to 30 fps J.PEG: 1280x400 / 640x360 / 320x180, up to 30 fps J.PEG: 1280x400 / 640x360 / 320x180, up to 15 fps J.PEG: 1280x400 / 640x360 / 320x240, up to 15 fps J.PEG: 1280x400 / 640x480 / 320x240, up to 15 fps J.PEG: 1280x400 / 640x480 / 320x240, up to 15 fps J.PEG: 1280x400 / 640x480 / 320x240, up to 15 fps J.PEG: 1280x400 / 640x480 / 320x240, up to 15 fps J.PEG: 1280x400 / 640x480 / 320x240, up to 15 fps J.PEG: 1280x420 / 640x480 / 320x240, up to 15 fps J.PEG: 1280x420 / 640x480 / 320x240, up to 15 fps J.PEG: 1280x420 / 640x480 / 320x240, up to 15	
Network	Supporte Network II Image Resolution	2M Parovanaj (16:9)/ 2M Panoramaj (16:9)/ 2M Double Panoramaj (16:9)/ 1.3M Panoramaj (16:9)/ Panorama (16:9)/ Panorama (16:9)/ Panorama (16:9)/ Panorama (16:9)/ Panorama (16:9)/ Panorama (16:9)/ Panorama (16:9)/ Panorama (16:9)/ Panorama (16:9)/ Double Panorama + Single PTZ:	Microsoft* Windows* XP SP3 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 10Base-T / 100Base-T X, RJ-45 connector (female) 10Base-T / 100Base-T / 100Base-T X, RJ-45 connector (female) 14264(1): 1920x1080 / 640x360 / 320x180, up to 30 fps H.264(2): 640x360 / 320x180, up to 30 fps JPEG: 1200x100 / 640x360 / 320x180, up to 30 fps JPEG: 1200x100 / 640x360 / 320x180, up to 30 fps JPEG: 1200x100 / 640x360 / 320x180, up to 15 fps JPEG: 1200x60 / 640x480 / 320x240, up to 15 fps JPEG: 1200x60 / 640x480 / 320x240, up to 15 fps JPEG: 1200x60 / 640x480 / 320x240, up to 15 fps JPEG: 1200x60 / 640x480 / 320x240, up to 15 fps Ch1-Ch4 640x480 max.30 fps * Only for H264 images. * Three are specification limitations such as the SD memory card function bein	
Network	Supporte Network II Image Resolution	ed Browser F 2M Panorama[16:9]/ 2M Double Panorama [16:9]: 1.3M Panorama [16:9]: Panorama 10:69] Panorama 10:69] Pano	Microsoft* Windows* XP SP3 Windows* Internet Explore* 7.0 (32 bit), Windows* Internet Explore* 8.0(32 bit) Windows* Internet Explore* 7.0 (32 bit), Microsot* Internet Explore* 6.0 SP3 10Base-T / 100Base-TX, RJ-45 connector (female) H.264(1): 1280x1080 / 640x360 / 320x180, up to 30 fps H.264(1): 1280x720 / 640x360 / 320x180, up to 30 fps H.264(2): 640x360 / 320x180, up to 30 fps JPEG: H.264(2): 640x360 / 320x180, up to 30 fps JPEG: H.264(2): 640x360 / 320x180, up to 30 fps JPEG: JPEG: H.264(1): 1280x460 / 640x480 / 320x180, up to 15 fps JPEG: JPEG: <td< td=""></td<>	
Network	Supporte Network II Image Resolution	2M Parovanaj (16:9)/ 2M Panoramaj (16:9)/ 2M Double Panoramaj (16:9)/ 1.3M Panoramaj (16:9)/ Panorama (16:9)/ Panorama (16:9)/ Panorama (16:9)/ Panorama (16:9)/ Panorama (16:9)/ Panorama (16:9)/ Panorama (16:9)/ Panorama (16:9)/ Panorama (16:9)/ Double Panorama + Single PTZ:	Microsoft* Windows* XP SP3 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 10Base-T / 100Base-TX, RJ-45 connector (female) H.264(1): 1920x1080 / 640x360 / 320x180, up to 30 fps H.264(2): 640x360 / 320x180, up to 30 fps JPEG: 1202x100 / 640x360 / 320x180, up to 30 fps JPEG: 1202x100 / 640x360 / 320x180, up to 30 fps JPEG: 120x100 / 640x360 / 320x180, up to 30 fps JPEG: 120x100 / 640x360 / 320x180, up to 30 fps JPEG: 120x100 / 640x360 / 320x180, up to 15 fps JPEG: 120x100 / 640x360 / 320x240, up to 15 fps JPEG: 120x680 / 640x480 / 320x240, up to 15 fps JPEG: 120x680 / 640x480 / 320x240, up to 15 fps JPEG: 120x680 / 640x480 / 320x240, up to 15 fps JPEG: 120x680 / 640x480 / 320x240, up to 15 fps JPEG: 120x680 / 640x480 / 320x240, up to 15 fps JPEG: 120x680 / 640x480 / 320x240, up to 15 fps JPEG: 120x680 / 640x480 / 320x240, up to 15 fps Ohl (of H_264 images. * There are specification limitations such a	
Network	Supporte Network II Image Resolution *4	ed Browser F 2M Panorama[16:9]/ 2M Double Panorama [16:9]/ 1.3M Panorama [16:9]/ 1.3M Double Panorama 10:49/PT// Porotama 4.04PT// Double Panorama + Quad PT// Double Panorama + Single PT/2: VGA Quad streams 3M Fisheye [4:3]:	Microsoft* Windows* XP SP3 Windows* Internet Explore* 20 (32 bit), Windows* Internet Explore* 8 0(32 bit) Windows* Internet Explore* 7.0 (32 bit), Microsoft* Internet Explore* 6.0 SP3 10Base+T / 100Base+TX, RJ-45 connector (female) H.264(1): 1280x1600 / 640x360 / 320x180, up to 30 fps H.264(1): 200x1800 / 640x360 / 320x180, up to 30 fps H.264(1): 1280x720 / 640x360 / 320x180, up to 30 fps H.264(1): 1280x720 / 640x360 / 320x180, up to 30 fps H.264(1): 1280x720 / 640x360 / 320x180, up to 30 fps H.264(1): 1280x720 / 640x360 / 320x180, up to 30 fps H.264(1): 1280x720 / 640x360 / 320x180, up to 30 fps J.PEG: 1280x1080 / 640x360 / 320x180, up to 15 fps When using distribution of "Wall Panorama" or "Double panorama" H.264(1): 1280x60 / 640x360 / 320x240, up to 15 fps J.PEG: 1280x400 / 640x360 / 320x240, up to 15 fps J.PEG: 1280x400 / 640x480 / 320x240, up to 15 fps Ch1-Ch4 640x480 max.30 fps * Only for H.264 images. * Only for H.264 images. * There are specification limitations such as the SD memory card function bein unavailable. H.264(1): 1280x60, up to 15 fps J.PEG: 1280x400, up to 15 fps	
Network	Supporte Network II Image Resolution	ed Browser 2 M Panorama[16:9]; 2 M Double Panorama[16:9]; 1.3 M Panorama[16:9]; 1.3 M Double Panorama[16:9]; Panorama [16:9]; Panorama [16:9]; Panorama 16:9]; Panorama 16:9]; Panorama 4: Single PTZ; Double Panorama + Single PTZ; VGA Quad streams 3 M Fisheye [4:3]; Transmission Mode	Microsoft* Windows* XP SP3 Windows* Internet Explore* 7.0 (32 bit), Windows* Internet Explore* 7.0 (32 bit), Windows* Internet Explore* 7.0 (32 bit), Microsoft* Internet Explore* 6.0 SP3 10Base-T / 100Base-TX, RJ-45 connector (female) H.264(1): 1280/01007 (640x360 / 320x180, up to 30 fps H.264(1): 1280/01007 (640x360 / 320x180, up to 30 fps H.264(2): 640x360 / 320x180, up to 30 fps J.PEG: 1280x720 / 640x360 / 320x180, up to 30 fps J.PEG: 1280x720 / 640x360 / 320x180, up to 15 fps J.PEG: 1280x600 / 640x460 / 320x180, up to 15 fps J.PEG: 1280x600 / 640x460 / 320x240, up to 15 fps J.PEG: 1280x600 / 640x460 / 320x240, up to 15 fps J.PEG: 1280x660 / 640x460 / 320x240, up to 15 fps Ohl-Oh4 640x480 max.30 fps Ohl-Oh4 640x	
Network	Supporte Network II Image Resolution *4	ed Browser F 2M Panorama[16:9]/ 2M Double Panorama [16:9]/ 1.3M Panorama [16:9]/ 1.3M Double Panorama 10:49/PT// Porotama 4.04PT// Double Panorama + Quad PT// Double Panorama + Single PT/2: VGA Quad streams 3M Fisheye [4:3]:	Microsoft* Windows* XP SP3 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 10Base-T / 100Base-TX, RJ-45 connector (female) H.264(1): 1920x1080 / 640x360 / 320x180, up to 30 fps H.264(2): 640x360 / 320x180, up to 30 fps H.264(1): 120x720 / 640x360 / 320x180, up to 30 fps H.264(2): 640x360 / 320x180, up to 30 fps JPEG: 120x700 / 640x360 / 320x180, up to 30 fps H.264(2): 120x100 / 640x360 / 320x180, up to 15 fps JPEG: 120x100 / 640x360 / 320x240, up to 15 fps JPEG: 120x60 / 640x40 / 320x240, up to 15 fps JPEG: 120x60 / 640x40 / 320x240, up to 15 fps JPEG: 120x60 / 640x40 / 320x240, up to 15 fps JPEG: 120x60 / 640x40 / 320x240, up to 15 fps JPEG: 120x60 / 640x40 / 320x240, up to 15 fps JPEG: 120x60 / 640x40 / 320x240, up to 15 fps Ch1-0A4 640x480 max.30 fps * There are specification limitations such as the SD memory card function bein unavailable. H.264(1): 1280x6060, up to 15 fps JPEG: 2048x1536, up t	
Network	Supporte Network II Image Resolution *4	2M Panorama[16:3]/ 2M Panorama[16:3]/ 2M Double Panorama [16:3]: 1.3M Panorama [16:3]: Panorama [16:3]: Pano	Microsoft* Windows* XP SP3 Windows* Internet Explore* 7.0 (32 bit), Windows* Internet Explore* 7.0 (32 bit), Windows* Internet Explore* 7.0 (32 bit), Microsoft* Internet Explore* 6.0 SP3 10Base-T / 100Base-TX, RJ-45 connector (female) H.264(1): 1280/01007 (640x360 / 320x180, up to 30 fps H.264(1): 1280/01007 (640x360 / 320x180, up to 30 fps H.264(2): 640x360 / 320x180, up to 30 fps J.PEG: 1280x720 / 640x360 / 320x180, up to 30 fps J.PEG: 1280x720 / 640x360 / 320x180, up to 15 fps J.PEG: 1280x600 / 640x460 / 320x180, up to 15 fps J.PEG: 1280x600 / 640x460 / 320x240, up to 15 fps J.PEG: 1280x600 / 640x460 / 320x240, up to 15 fps J.PEG: 1280x660 / 640x460 / 320x240, up to 15 fps Ohl-Oh4 640x480 max.30 fps Ohl-Oh4 640x	
Network	Supporte Network II Image Resolution *4	ed Browser 2 M Panorama[16:9]/ 2 M Double Panorama [16:9]: 1.3 M Double Panorama [16:9]: 1.3 M Double Panorama [16:9]: Panorama 16:9]: Panorama 16:9]: Panorama 4.Quad PTZ/ Double Panorama + Quad PTZ/ Double Panorama + Quad PTZ/ UNA Quad streams 3 M Fisheye [4:3]: Transmission Mode Frame Rate Bit Rate/Client	Microsoft* Windows* XP SP3 Windows* Internet Explore* 7.0 (32 bit), Windows* Internet Explore* 8.0(32 bit) Windows* Internet Explore* 7.0 (32 bit), Microsoft* Internet Explore* 6.0 SP3 10Base+T / 100Base+TX, RJ-45 connector (female) H.264(1): 1280x1080 / 640x360 / 320x180, up to 30 fps H.264(1): 2180x720 / 640x360 / 320x180, up to 30 fps H.264(2): 640x360 / 320x180, up to 30 fps H.264(2): 640x360 / 320x180, up to 30 fps H.264(2): 640x360 / 320x180, up to 30 fps JPEG: 1280x720 / 640x360 / 320x180, up to 30 fps H.264(2): 640x360 / 320x180, up to 30 fps JPEG: 1280x4080 / 640x360 / 320x180, up to 30 fps JPEG: 1280x4080 / 640x360 / 320x180, up to 31 fps JPEG: 1280x4080 / 640x360 / 320x180, up to 35 fps JPEG: 1280x4080 / 640x360 / 320x180, up to 15 fps JPEG: 1280x400 / 640x360 / 320x240, up to 15 fps JPEG: 1280x460 / 640x480 / 320x240, up to 15 fps Sth-Ch4 640x480 max.30 fps * Only for H.264 images. * There are specification limitations such as the SD memory card function bein unavailable. H.264(1): 1280x460, up to 15 fps JPEG: 1280x460 / 400x480 max.30 fps * Only for H.264 images. * There are specification limitations such as the SD memory card function bein unavailable. H.264(1): 1280x460, up to 15 fps JPEG: 204x60 / 640x480 / 320x240, up to 15 fps Constant bitrate / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,556 / 2,048 / 3,072 / 4,096 /	
Network	Supporte Network II Image Resolution *4	ed Browser 2M Panorama[16:9]/ 2M Double Panorama[16:9]/ 1.3M Panorama[16:9]/ 1.3M Panorama[16:9]/ 1.3M Double Panorama [16:9]/ Panorama 10:49/PI7/ Double Panorama + Quad PT2/ Double Panorama + Single PT2: VGA Quad streams 3M Fisheye [4:3]: Transmission Mode Frame Rate Bit Rate/Client Image Quality	Microsoft* Windows* XP SP3 Windows* Internet Explore* 7.0 (32 bit), Microsoft* Internet Explore* 7.0 (32 bit), Microsoft* Internet Explore* 6.0 SP3 10Base-T / 100Base-TX, RJ-45 connector (female) H.264(1): 129CN1800 / 640Xa60 / 320X180, up to 30 fps H.264(1): 129CN1800 / 640Xa60 / 320X180, up to 30 fps H.264(2): 640Xa60 / 320X180, up to 30 fps J.PEG: 1280X720 / 640Xa60 / 320X180, up to 30 fps J.PEG: 1280X400 / 640Xa60 / 320X180, up to 15 fps J.PEG: 1280X400 / 640Xa60 / 320X240, up to 15 fps J.PEG: 1280X400 / 640Xa60 / 320X240, up to 15 fps J.PEG: 1280X400 / 640Xa60 / 320X240, up to 15 fps J.PEG: 1280X400 / 640Xa60 / 320X240, up to 15 fps J.PEG: 1280X400 / 640Xa60 / 320X240, up to 15 fps J.PEG: 1280X400, up to 15 fps J.PEG: 1280X400, up to 15 fps J.PEG: 1280X400, up to 15 fps J.PEG: 2048X1536, up to 15 fps J.PEG: 2048X1536, up to 15 fps J.PEG: 1204X1636, up to 15 fps	
Network	Supporte Network II Image Resolution *4 H.264	ed Browser 2 M Panorama[16:9]/ 2 M Double Panorama [16:9]: 1.3 M Double Panorama [16:9]: 1.3 M Double Panorama [16:9]: Panorama 16:9]: Panorama 16:9]: Panorama 4.Quad PTZ/ Double Panorama + Quad PTZ/ Double Panorama + Quad PTZ/ UNA Quad streams 3 M Fisheye [4:3]: Transmission Mode Frame Rate Bit Rate/Client	Microsoft* Windows* XP SP3 Windows* Internet Explore* 7.0 (32 bit), Microsoft* Internet Explore* 8.0(32 bit) Windows* Internet Explore* 7.0 (32 bit), Microsoft* Internet Explore* 6.0 SP3 10Base+7 / 100Base+7X, RJ-45 connector (female) H.264(1): 1280x1080 / 640x360 / 320x180, up to 30 fps H.264(1): 1280x720 / 640x360 / 320x180, up to 30 fps H.264(2): 640x360 / 320x180, up to 30 fps J.PEG: 120x120 / 640x360 / 320x180, up to 30 fps J.PEG: 120x1080 / 640x360 / 320x180, up to 30 fps J.PEG: 120x0x180 / 640x360 / 320x180, up to 31 fps J.PEG: 120x0x180 / 640x480 / 320x180, up to 15 fps Oth-Oh4 640x480 / 320x240, up to 15 fps 151-654 640x480 / 320x240, up to 15 fps J.PEG: 1280x460 / 640x480 / 320x240, up to 15 fps J.PEG: 1280x460 / 640x480 / 320x240, up to 15 fps J.PEG: 1280x460, up to 15 fps J.PEG: 1280x460, up to 15 fps J.PEG: 1280x460, up to 15 fps J.PEG: 1261x10s, up to 15 fps	
Network	Supporte Network II Image Resolution *4	2 Manorama[16:9] 2 M Panorama[16:9] 2 M Double Panorama [16:9]: 1.3M Panorama [16:9]: 1.3M Double Panorama [16:9]: Panorama 16:9]: Panorama 16:9]: Panorama 16:9]: Panorama 16:9]: Panorama 4: Ouble Panorama + Cuad PTZ/ Double Panorama + Single PTZ: VGA Quad streams 3 M Fisheye [4:3]: Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval	Microsoft* Windows* XP SP3 Windows* Internet Explore* 7.0 (32 bit), Microsoft* Internet Explore* 8.0(32 bit) Windows* Internet Explore* 7.0 (32 bit), Microsoft* Internet Explore* 6.0 SP3 10Base-T / 100Base-TX, RJ-45 connector (female) H.264(1): 1280x702 / 640x360 / 320x180, up to 30 fps H.264(1): 1280x720 / 640x360 / 320x180, up to 30 fps H.264(1): 1280x720 / 640x360 / 320x180, up to 30 fps H.264(2): 640x360 / 320x180, up to 30 fps JPEG: 1280x720 / 640x360 / 320x180, up to 30 fps H.264(2): 640x360 / 320x180, up to 30 fps JPEG: 1280x720 / 640x360 / 320x180, up to 30 fps JPEG: 1280x720 / 640x360 / 320x180, up to 30 fps JPEG: 1280x720 / 640x360 / 320x180, up to 15 fps JPEG: 1280x5406 / 640x480 / 320x240, up to 15 fps JPEG: 1280x5406 / 640x480 / 320x240, up to 15 fps Orl-Ch4 640x480 max.30 fps * There are specification limitations such as the SD memory card function bein unavailable. JPEG: 1280x560 / 640x480 / 320x240, up to 15 fps JPEG: 1280x560 / 640x480 / 320x240, up to 15 fps JPEG: 1280x560 / 640x480 / 320x240, up to 15 fps Ch1-Ch4 640x480 max.30 fps * Ohy for L264 images * There are specification limitations such as the SD memory card function bein unavailable. JPEG: 2480x153	
Network	Supporte Network II Image Resolution *4 H.264	2 M Panorama[16:3]/ 2 M Panorama[16:3]/ 2 M Double Panorama [16:3]: 1.3 M Panorama [16:3]: 1.3 M Double Panorama [16:3]: Panorama 16:9]: Panorama 16:9]: Panor	Microsoft* Windows* XP SP3 Windows* Internet Explore* 7.0 (32 bit), Microsoft* Internet Explore* 8.052 bit) Windows* Internet Explore* 7.0 (32 bit), Microsoft* Internet Explore* 6.0 SP3 10Base+1 / 100Base+1 X, RJ-45 connector (female) H.264(1): 1280/1800 / 464/x660 / 320x180, up to 30 fps H.264(1): 2020x1800 / 464/x660 / 320x180, up to 30 fps H.264(1): 1280/270 / 640/x600 / 320x180, up to 30 fps H.264(1): 1280/270 / 640/x60 / 320x180, up to 30 fps H.264(1): 1280/270 / 640/x60 / 320x180, up to 30 fps H.264(1): 1280/270 / 640/x60 / 320x180, up to 30 fps H.264(1): 1280/270 / 640/x60 / 320x180, up to 15 fps • When using distribution of "Wall Panorama" or "Double panorama" H.264(1): 1280/1800 / 640/x60 / 320x180, up to 15 fps • When using distribution of "Qual P12" or Single P12" H.264(2): 1280/800 / 640/x80 / 320x240, up to 15 fps Oth-Ch4 640/x80 max.30 fps • Only for H.264 images. * Only for H.264 images. * Three are specification limitations such as the SD memory card function beir unavailable. H.264(1): 1280/x60, up to 15 fps JPEG: 204kr1536, up to 15 fps JPEG: 204kr1536	
Network	Supporte Network II Image Resolution *4 H.264	ed Browser 7 2M Panorama[16:9]/ 2M Double Panorama[16:9]: 1.3M Panorama[16:9]: 1.3M Double Panorama[16:9]: Panorama [16:9]: Panorama 16:9]: Panorama 10:9]/ P	Microsoft* Windows* XP SP3 Windows* Internet Explore* 7.0 (32 bit), Microsoft* Internet Explore* 8.0(32 bit) Windows* Internet Explore* 7.0 (32 bit), Microsoft* Internet Explore* 6.0 SP3 10Base-T / 100Base-TX, RJ-45 connector (female) H.264(1): 1280x702 / 640x360 / 320x180, up to 30 fps H.264(1): 1280x720 / 640x360 / 320x180, up to 30 fps H.264(1): 1280x720 / 640x360 / 320x180, up to 30 fps H.264(2): 640x360 / 320x180, up to 30 fps JPEG: 1280x720 / 640x360 / 320x180, up to 30 fps H.264(2): 640x360 / 320x180, up to 30 fps JPEG: 1280x720 / 640x360 / 320x180, up to 30 fps JPEG: 1280x720 / 640x360 / 320x180, up to 30 fps JPEG: 1280x720 / 640x360 / 320x180, up to 15 fps JPEG: 1280x5406 / 640x480 / 320x240, up to 15 fps JPEG: 1280x5406 / 640x480 / 320x240, up to 15 fps Orl-Ch4 640x480 max.30 fps * There are specification limitations such as the SD memory card function bein unavailable. JPEG: 1280x560 / 640x480 / 320x240, up to 15 fps JPEG: 1280x560 / 640x480 / 320x240, up to 15 fps JPEG: 1280x560 / 640x480 / 320x240, up to 15 fps Ch1-Ch4 640x480 max.30 fps * Ohy for L264 images * There are specification limitations such as the SD memory card function bein unavailable. JPEG: 2480x153	
Network	Supporte Network II Image Resolution *4 H.264 JPEG	20 Browser 21 Manorama[16:9]/ 22 M Double Panorama [16:9]: 1.3M Panorama [16:9]: 1.3M Double Panorama [16:9]: Panorama 16:9]: Panorama 16:9]: Panorama 40:000 Panorama 40:000 Double Panorama + Quad PTZ/ Double Panorama + Single PTZ: VGA Quad streams 30 Fisheye [4:3]: Transmission Mode Frame Rate Bit Rate/Client Image Quality Transmission Type Image Quality Transmission Type Image Quality Transmission Type Image Quality Paricesh Interval	Microsoft* Windows* XP SP3 Windows* Internet Explore* 7.0 (32 bit), Microsoft* Internet Explore* 6.0 SP3 Windows* Internet Explore* 7.0 (32 bit), Microsoft* Internet Explore* 6.0 SP3 10Base-T / 100Base-T X, RJ-45 connector (female) H.264(1): 1200X1080 / 640X60 / 320X180, up to 30 fps H.264(2): 640X60 / 640X60 / 320X180, up to 30 fps H.264(2): 640X60 / 640X60 / 320X180, up to 30 fps H.264(2): 640X60 / 320X180, up to 30 fps JPEG: 1280X720 / 640X60 / 320X180, up to 30 fps JPEG: 1280X720 / 640X60 / 320X180, up to 30 fps JPEG: 1280X720 / 640X60 / 320X180, up to 30 fps JPEG: 1280X60 / 640X60 / 320X180, up to 15 fps JPEG: 1280X60 / 640X60 / 320X180, up to 15 fps JPEG: 1280X606 / 640X60 / 320X180, up to 15 fps JPEG: 1280X606 / 640X60 / 320X240, up to 15 fps JPEG: 1280X606 / 640X60 / 320X240, up to 15 fps JPEG: 1280X606 / 640X60 / 320X240, up to 15 fps JPEG: 1280X606 / 640X60 / 320X240, up to 15 fps JPEG: 1280X60 / 640X60 / 320X240, up to 15 fps LOL+0A 640X80 max.30 fps * Ohly for H.264 images * There are specification limitations such as the SD memory card function bein unavailable. H.264(1): 1280X60, up to 15 fps Constant bitrate / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 6 / 1 / 28 / 26 / 384 / 512 / 786 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6 / 128 / 265 / 384 / 512 / 786 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6 / 128 / 265 / 384 / 512 / 786 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6 / 128 / 265 / 384 / 512 / 786 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6 / 128 / 265 / 384 / 512 / 786 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / E / 10 / 400X / 122 / 288 / 14,336 kbps LOW / NORMAL / FINE 1 / 16 - 30 fps UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps	
Network	Supporte Network II Image Resolution *4 H.264 JPEG	2d Browser 2 2M Panorama[16:9]; 2M Double Panorama [16:9]; 1.3M Panorama [16:9]; 1.3M Double Panorama [16:9]; Panorama [16:9]; Panorama 10:9]; Panorama 10:9]; Panorama 10:9]; Panorama 20:00 Double Panorama + Quad PTZ/ Double Panorama + Single PTZ; VGA Quad streams Double Panorama + Single PTZ; VGA Quad streams Bit Rate/Client Bit Rate/Client Bit Rate/Client Image Quality Refresh Interval Transmission Type Image State Interval Transmission Type Transmissio	Microsoft* Windows* XP SP3 Windows* Internet Explore* 7.0 (32 bit), Microsoft* Internet Explore* 6.0 SP3 Windows* Internet Explore* 7.0 (32 bit), Microsoft* Internet Explore* 6.0 SP3 10Base-T / 100Base-T X, RJ-45 connector (female) H.264(1): 1200X1080 / 640X60 / 320X180, up to 30 fps H.264(2): 640X60 / 640X60 / 320X180, up to 30 fps H.264(2): 640X60 / 640X60 / 320X180, up to 30 fps H.264(2): 640X60 / 320X180, up to 30 fps JPEG: 1280X720 / 640X60 / 320X180, up to 30 fps JPEG: 1280X720 / 640X60 / 320X180, up to 30 fps JPEG: 1280X720 / 640X60 / 320X180, up to 30 fps JPEG: 1280X60 / 640X60 / 320X180, up to 15 fps JPEG: 1280X60 / 640X60 / 320X180, up to 15 fps JPEG: 1280X606 / 640X60 / 320X180, up to 15 fps JPEG: 1280X606 / 640X60 / 320X240, up to 15 fps JPEG: 1280X606 / 640X60 / 320X240, up to 15 fps JPEG: 1280X606 / 640X60 / 320X240, up to 15 fps JPEG: 1280X606 / 640X60 / 320X240, up to 15 fps JPEG: 1280X60 / 640X60 / 320X240, up to 15 fps LOL+0A 640X80 max.30 fps * Ohly for H.264 images * There are specification limitations such as the SD memory card function bein unavailable. H.264(1): 1280X60, up to 15 fps Constant bitrate / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 6 / 1 / 28 / 26 / 384 / 512 / 786 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6 / 128 / 265 / 384 / 512 / 786 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6 / 128 / 265 / 384 / 512 / 786 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6 / 128 / 265 / 384 / 512 / 786 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6 / 128 / 265 / 384 / 512 / 786 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / E / 10 / 400X / 122 / 288 / 14,336 kbps LOW / NORMAL / FINE 1 / 16 - 30 fps UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps	
Network	Supporte Network II Image Resolution *4 H.264 JPEG Audio Cor Audio Cor	2d Browser 2 2M Panorama[16:9]; 2M Double Panorama [16:9]; 1.3M Panorama [16:9]; 1.3M Double Panorama [16:9]; Panorama [16:9]; Panorama 10:9]; Panorama 10:9]; Panorama 10:9]; Panorama 20:00 Double Panorama + Quad PTZ/ Double Panorama + Single PTZ; VGA Quad streams Double Panorama + Single PTZ; VGA Quad streams Bit Rate/Client Bit Rate/Client Bit Rate/Client Image Quality Refresh Interval Transmission Type Image State Interval Transmission Type Transmissio	Microsoft* Windows* XP SP3 Windows* Internet Explore* 7.0 (32 bit), Windows* Internet Explore* 8.0(32 bit) Windows* Internet Explore* 7.0 (32 bit), Microsoft* Internet Explore* 6.0 SP3 10Base-T / 100Base-TX, RJ-45 connector (female) H.264(1): 1280x720 / 540x60 / 320x180, up to 30 fps H.264(1): 1280x720 / 640x360 / 320x180, up to 30 fps H.264(1): 1280x720 / 640x360 / 320x180, up to 30 fps H.264(2): 640x360 / 320x180, up to 30 fps JPEG: 1200x720 / 640x360 / 320x180, up to 30 fps JPEG: 1200x720 / 640x360 / 320x180, up to 30 fps JPEG: 1200x720 / 640x360 / 320x180, up to 30 fps JPEG: 1200x720 / 640x360 / 320x180, up to 15 fps JPEG: 1200x500 / 640x360 / 320x180, up to 15 fps JPEG: 1200x500 / 640x480 / 320x240, up to 15 fps JPEG: 1200x500 / 640x480 / 320x240, up to 15 fps Ohl-Ch4 640x480 max.30 fps * There are specification limitations such as the SD memory card function bein unavailable. H.264(1): 120x690, up to 15 fps JPEG: 2048x1536, up to 15 fps Constant birtate / Best effot 1 / 3 / 5 / 7 5 / 10 / 12 / 15 / 20 / 30 fps 64 / 128 / 256 / 348 / 152 / 788 / 132 / 1,536 / 2,048 / 3,072 / 4,096 / 8,192 / 10,240 / 12,248 / 14,336 kbps LOW / NORMAU / FINE 1 fps - 30 fps	
Network	Supporte Network II Image Resolution *4 H.264 JPEG Audio Cor Audio Cor	ed Browser	Microsoft* Windows* XP SP3 Windows* Internet Explore* 3.0 (32 bit), Microsoft* Internet Explore* 6.0 SP3 Windows* Internet Explore* 7.0 (32 bit), Microsoft* Internet Explore* 6.0 SP3 10Base-T / 100Base-TX, RJ-45 connector (female) H.264(1): 1920x1080 / 640x360 / 320x180, up to 30 fps H.264(1): 1920x1080 / 640x360 / 320x180, up to 30 fps H.264(2): 640x360 / 320x180, up to 30 fps JPEG: 1920x1080 / 640x360 / 320x180, up to 30 fps JPEG: 1280x720 / 640x360 / 320x180, up to 30 fps JPEG: 1280x720 / 640x360 / 320x180, up to 30 fps JPEG: 1280x720 / 640x360 / 320x180, up to 30 fps JPEG: 1280x720 / 640x360 / 320x180, up to 30 fps JPEG: 1280x780 / 640x860 / 320x180, up to 30 fps JPEG: 1280x960 / 640x80 / 320x180, up to 15 fps JPEG: 1280x960 / 640x80 / 320x240, up to 15 fps JPEG: 1280x960 / 640x80 / 320x240, up to 15 fps JPEG: 1280x960, up to 15 fps	
Network	Supporte Network II Image Resolution '4 H.264 JPEG Audio Con Audio Mo Audio Mo Audio Mo	ed Browser	Microsoft* Windows* XP SP3 Windows* Internet Explore* 7.0 (32 bit), Microsoft* Internet Explore* 8.0(32 bit) Windows* Internet Explore* 7.0 (32 bit), Microsoft* Internet Explore* 6.0 SP3 10Base+T / 100Base+TX, RJ-45 connector (female) H.264(1): 1280x1080 / 640x360 / 320x180, up to 30 fps H.264(1): 2180x720 / 640x360 / 320x180, up to 30 fps H.264(1): 1280x720 / 640x360 / 320x180, up to 30 fps H.264(1): 1280x720 / 640x360 / 320x180, up to 30 fps H.264(1): 1280x720 / 640x360 / 320x180, up to 30 fps H.264(1): 1280x720 / 640x360 / 320x180, up to 30 fps H.264(1): 1280x720 / 640x360 / 320x180, up to 30 fps H.264(1): 1280x400 / 320x180, up to 30 fps J.PEG: 1280x400 / 640x360 / 320x180, up to 30 fps Uhen using distribution of "Wall Panorama" or "Double panorama" H.264(1): 1280x400 / 640x360 / 320x180, up to 15 fps J.PEG: 1280x400 / 640x360 / 320x240, up to 15 fps J.PEG: 1280x400 / 640x360 / 320x240, up to 15 fps J.PEG: 1280x400 / 640x40 / 320x240, up to 15 fps J.PEG: 1280x400 / 640x40 / 320x240, up to 15 fps J.PEG: 1280x400 / 640x40 / 320x240, up to 15 fps J.PEG: 1280x400 / 640x40 / 320x240, up to 15 fps J.PEG: 1280x400 / 640x40 / 320x240, up to 15 fps J.PEG: 1280x400 / 640x40 / 320x240, up to 15 fps J.PEG: 1280x400 / 640x40 / 320x240, up to 15 fps J.PEG: 1280x400 / 640x40 / 320x240, up to 15 fps J.PEG: 1280x400 / 640x40 / 320x240, up to 15 fps J.PEG: 1280x400 / 640x40 / 320x240, up to 15 fps J.PEG: 1280x400 / 640x40 / 320x240, up to 15 fps J.PEG: 1280x400 / 12,288 / 14,388 kps J.UM/INAMAL / FINE J.UM/INAMAL / FINE J.UM/INAMAL / FINE J.UM/INAMAL / FINE J.Def J.	
Network	Supporte Network II Image Resolution '4 H.264 JPEG Audio Con Audio Mo Audio Mo Audio Mo	2 Manorama (16:9) 2 Manorama (16:9) 2 M Double Panorama (16:9): 1.3 Manorama (16:9): 1.3 Manorama (16:9): Panorama	Microsoft* Windows* XP SP3 Windows* Internet Explore* 7.0 (32 bit), Microsoft* Internet Explore* 6.0 SP3 Windows* Internet Explore* 7.0 (32 bit), Microsoft* Internet Explore* 6.0 SP3 10Base-T / 100Base-TX, RJ-45 connector (female) H.264(1): 12920x1080 / 640x360 / 320x180, up to 30 fps H.264(1): 12920x1080 / 640x360 / 320x180, up to 30 fps H.264(2): 640x360 / 320x180, up to 30 fps JPEG: 1280x720 / 640x360 / 320x180, up to 30 fps JPEG: 1280x720 / 640x360 / 320x180, up to 30 fps JPEG: 1280x720 / 640x360 / 320x180, up to 30 fps JPEG: 1280x720 / 640x360 / 320x180, up to 30 fps JPEG: 1280x720 / 640x360 / 320x180, up to 15 fps JPEG: 1280x60/ 640x400 / 320x180, up to 15 fps JPEG: 1280x606 / 640x40 / 320x240, up to 15 fps JPEG: 1280x606 / 640x40 / 320x240, up to 15 fps Ohl-Oh4 640x480 max.30 fps Ch1-Oh4 640x480 max.30 fps Ch1-Oh4 640x480 max.30 fps Ch1-Oh4 640x480 max.30 fps Ch1-Oh4 640x480 max.30 fps Ch1-21 / 15 / 20 / 30 fps Ch1/26 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 4 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps Ch2 / 12 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 4 1/3 / 5 / 7.5 / 10 / 12 /	
Network	Supporte Network II Image Resolution '4 H.264 JPEG Audio Con Audio Mo Audio Mo Audio Mo	2 Manorama (16:9) 2 Manorama (16:9) 2 M Double Panorama (16:9): 1.3 Manorama (16:9): 1.3 Manorama (16:9): Panorama	Microsoft* Windows* XP SP3 Windows* Internet Explore* 7.0 (32 bit), Microsoft* Internet Explore* 8.0(22 bit) Windows* Internet Explore* 7.0 (32 bit), Microsoft* Internet Explore* 6.0 SP3 10Base+T / 100Base+TX, RJ-45 connector (female) H.264(1): 120X0180 / 640X360 / 320X180, up to 30 fps H.264(1): 20X0180 / 640X360 / 320X180, up to 30 fps H.264(1): 2180X720 / 640X360 / 320X180, up to 30 fps H.264(1): 2180X720 / 640X360 / 320X180, up to 30 fps H.264(1): 2180X720 / 640X360 / 320X180, up to 30 fps H.264(1): 2180X720 / 640X360 / 320X180, up to 30 fps H.264(1): 2180X720 / 640X360 / 320X180, up to 30 fps H.264(1): 2180X720 / 640X360 / 320X180, up to 30 fps When using distribution of "Wall Panorama" or "Double panorama" H.264(1): 2180X60 / 640X480 / 320X240, up to 15 fps Uhre: 1280X60 / 640X480 / 320X240, up to 15 fps Ch1-Ch4 640X480 max.30 fps * Only for H.264 images. * Only for H.264 images. * There are specification limitations such as the SD memory card function bein unavailable. H.264(1): 1280X60, up to 15 fps JPEG: 204X1536, up to 15 fps JPEG: 204X1536, up to 15 fps JDEG: 204X154, JDEG: 704X14, JDEG JDEG: 204X164, JDEG JDEG: 204X164, JDEG JDEG: 204X164, JDEG JDEG	
Network	Supporte Network II Image Resolution *4 H.264 JPEG Audio Coi Audio Mo Authentic Total Bit F Supported	ed Browser 2 M Panorama[16:9], 2 M Double Panorama [16:9], 1.3 M Double Panorama [16:9], 1.3 M Double Panorama [16:9], Panorama [16:9], Panorama [16:9], Panorama [16:9], Panorama 10:49 PIZ, Double Panorama + Single PIZ, UGA Quad streams 3 M Fisheye [4:3], Transmission Type mpression de tion for Audio ate d Protocol	Microsoft* Windows* XP SP3 Windows* Internet Explore* 7.0 (32 bit), Microsoft* Internet Explore* 6.0 SP3 10Base-T / 100Base-TX, RJ-45 connector (female) H.264(1): 1280x702 / 640x360 / 320x180, up to 30 fps H.264(1): 1280x720 / 640x360 / 320x180, up to 30 fps H.264(1): 1280x720 / 640x360 / 320x180, up to 30 fps H.264(1): 1280x720 / 640x360 / 320x180, up to 30 fps JPEG: 1290x7108 / 640x360 / 320x180, up to 30 fps JPEG: 1280x720 / 640x360 / 320x180, up to 30 fps JPEG: 1280x720 / 640x360 / 320x180, up to 30 fps JPEG: 1280x720 / 640x360 / 320x180, up to 30 fps JPEG: 1280x720 / 640x360 / 320x180, up to 30 fps JPEG: 1280x500 / 640x480 / 320x180, up to 30 fps JPEG: 1280x500 / 640x480 / 320x180, up to 15 fps JPEG: 1280x500 / 640x480 / 320x240, up to 15 fps Oft-OrA 640x480 max.30 fps * Ohly for H.264 images. * There are specification limitations such as the SD memory card function bein unavailable. JPEG: 2048x1536, up to 15 fps JPEG: 120x480 / 40x480 max.30 fps Constant bitrate / Best effort 1 /3 / 5 / 7 5 / 10 / 12 / 15 / 20 / 30 fps 64 / 128 / 256 / 384 / 512 / 768 / 1024 / 1,556 / 2,048 / 3,072 / 4,096 / 6,192 / 1024 / 12,248 / 14,336 kbps LOW / NORMAL / FINE	
Network	Supporte Network II Image Resolution '4 H.264 JPEG Audio Con Audio Mo Audio Mo Audio Mo	ed Browser 2 M Panorama[16:9], 2 M Double Panorama [16:9], 1.3 M Double Panorama [16:9], 1.3 M Double Panorama [16:9], Panorama [16:9], Panorama [16:9], Panorama [16:9], Panorama 10:49 PIZ, Double Panorama + Single PIZ, UGA Quad streams 3 M Fisheye [4:3], Transmission Type mpression de tion for Audio ate d Protocol	Microsoft* Windows* XP SP3 Windows* Internet Explore* 7.0 (32 bit), Microsoft* Internet Explore* 8.052 bit) Windows* Internet Explore* 7.0 (32 bit), Microsoft* Internet Explore* 6.0 SP3 10Base+T / 100Base+TX, RJ-45 connector (female) H1264(1): 120X0180 / 640X360 / 320X180, up to 30 fps H1264(1): 20X0180 / 640X360 / 320X180, up to 30 fps H1264(1): 2180X720 / 640X360 / 320X180, up to 30 fps H1264(1): 2180X720 / 640X360 / 320X180, up to 30 fps H1264(1): 2180X720 / 640X360 / 320X180, up to 30 fps H1264(1): 2180X720 / 640X360 / 320X180, up to 30 fps H1264(1): 2180X720 / 640X360 / 320X180, up to 30 fps H1264(1): 2180X720 / 640X360 / 320X180, up to 15 fps When using distribution of "Wall Panorama" or "Double panorama" H1264(1): 2180X60 / 640X480 / 320X240, up to 15 fps UHC+1264(2): 1280X60 / 640X480 / 320X240, up to 15 fps Ch1-Ch4 640X480 max.30 fps * Only for H.264 images. * Only for H.264 images. * There are specification limitations such as the SD memory card function bein unavailable. H1264(1): 1280X60, up to 15 fps JPEG: 204X1536, up to 15 fps JPEG: 204X1536, up to 15 fps JPEG: 204X1536, up to 15 fps JDEG: 204X154/154/154/154/1768/1,024/1,2048/3,072/4,096/8/154/154/154/154/154/154/154/154/154/154	

TV System			NTSC	PAL	
Network	Face Detection		ON / OFF (with XML notification) "3M Fisheye [4:3]", "1.3M Fisheye [4:3]", and "VGA Quad streams" modes cannot use the Face Detection function.		
	Cellular Phone Compatibility		JPEG image, AUX control (by access level)		
	Mobile Terminal Compatibility		iPad, iPhone, iPod touch (iOS 4.2.1 or later) Android™ mobile terminals		
Alarm	Alarm Source		VMD, Command alarm		
	Alarm Actions		SDXC/SDHC/SD memory recording, E-mail notification, Indication on browser, FTP image transfer, Panasonic protocol output		
	Alarm Log		With SDXC/SDHC/SD memory card: 5,000 logs, without SDXC/SDHC/SD memory card: 1,000 logs		
	Schedule		VMD		
Input/	Microphone/Line Input		Internal microphone, ø3.5 mm monaural mini jack, Input impedance: Approx. 2 kΩ		
Output		For microphone input	Applicable microphone: Plug-in power type, Supply voltage: 2.5 V ±0.5 V		
		For line input	Input level: Approx. –10 dBV		
	Audio Output		ø3.5 mm stereo mini jack (monaural output), Output impedance: Approx. 600 Ω. Line level		
	External I/O Terminals		ALARM IN 1, ALARM IN 2/ ALARM OUT, ALARM IN 3/ AUX OUT (x1 for each)		
General	Mounting method		Ceiling/ Wall/ Desktop/ Tripod		
General	Safety/EMC Standard		UL (UL60950-1), FCC (Part15 ClassA), C-UL (CAN/CSA C22.2 No.60950-1), DOC (ICES003 ClassA)		
	Power Source and Power		12V DC, PoE (IEEE802.3af compliant)		
	Consumption		12 V DC*: 540 mA/ 6.5 W		
			PoE 48 V: 125 mA/ 6.0 W (Class 2 devices)		
			* FOR UL LISTED MODEL(S), ONLY CONNECT 12 V DC		
			CLASS 2 POWER SUPPLY.		
	Ambient Operating Temperature		-10 °C to +50 °C {14 °F to 122 °F}		
	Ambient Operating Humidity		Less than 90 % (no condensation)		
	Dimensions		ø150 mm x 44 mm (H) {ø5-29/32 inches x 1-23/32 inches (H)}		
	Mass (approx.)		Main body: Approx. 370 g {0.82 lbs}		
		ATT 7	Camera attachment: Approx. 90 g {0.20 lbs}		
	Finish		Main body: ABS resin, sail white		

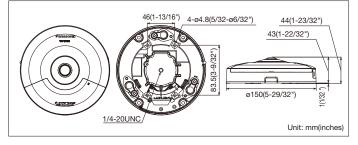
*1 Converted value *2 Refer to "Notes on Windows Vista[®] / Windows[®] 7" on the provided CD-ROM for further information about system requirements for a PC and precautions when using Microsoft[®] Windows[®] 7 or Microsoft[®] Windows Vista[®]. *3 When using IPv6 for communication, use Microsoft[®] Windows[®] 7 or Microsoft[®] Windows Vista[®].

*4 Transmission for 2 streams can be individually set in the same compression method.

Part Names and Functions



Appearance



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