

Super Dynamic Weather Resistant HD Dome Network Camera WV-SW395

(Rain Wash Coating Model)

WV-SW395A



HD/1,280 x 960 H.264 Weather Proof Camera featuring Super Dynamic

Key Features

- 720p HD images up to 30 fps
- Newly developed 1.3 Megapixel double speed 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
- 18x optical zoom with 12x digital zoom enabling 216x zoom.
 36x extra optical zoom at VGA resolution with 12x digital zoom enabling 432x zoom.
- Super Dynamic and ABS (Adaptive Black Stretch) technologies deliver 128x wider dynamic range compared with conventional cameras.
- Face Super Dynamic technology ensures clear face image.
- H.264 and MPEG-4 are selectable for system migration.
- High sensitivity with Day/Night function: 0.5 lx (Color), 0.06 lx (B/W) at F1.6 (Wide)
- Adaptive Digital Noise Reduction: 2D-DNR and 3D-DNR integration ensures reduced noise and motion blur in various conditions.
- Superior color reproduction by primary (RGB) color filter
- Electronic sensitivity enhancement : Auto (Up to 16x) / OFF
- Selectable light control modes: Outdoor / Indoor / Fixed electronic shutter Outdoor / Indoor: Electronic shutter and ALC lens iris control are automatically controlled depending on the mode and luminance level. Fixed electronic shutter: Up to 1/10,000 fixed electronic shutter can be selectable.
- Panning with auto flip function can be performed 0 to 360 degrees.
- Auto tracking: The camera automatically pans and tilts to follow a moving subject and keep it in the center of the image.
- PTZ control can be taken on the user friendly GUI with 16 speeds pan/tilt and new "Drag and Zoom" operation enabling finer control.
 256 speeds available for system with WV-CU950 system controller.
- Up to 64 preset positions
- 360 map shot: 8 thumbnail images at 45 deg. intervals make it simple to direct the camera easily by clicking on a thumbnail.
- Industrial grade Pan/Tilt/Zoom mechanism for high reliability
- VMD (Video Motion Detector) with 4 programmable detection areas,
 15 steps sensitivity level and 10 steps detection size
- Privacy Zone can mask up to 8 private areas, such as house windows and entrances/exits.
- Alarm sources including 3 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.
- Multi-language GUI and setup menu: English, French, Italian, Spanish, German, Russian (PAL) / English, French (NTSC)
 Installation required except for English
- IPv4/IPv6 protocol supported
- Analog Monitor output for easier installation
- Supports SSL, DDNS (viewnetcam, RFC2136)
- Still images (JPEG) can be viewed on mobile phones via Internet.
- Onvif compliant model
- Supports Power over Ethernet Plus (PoE+) IEEE 802.3at (Type2 compliant, Class 4 device)
 Does not support IEEE802.3af
- IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard.
- Dehumidification device for use in various weather conditions
- Built-in fan/heater/sun shield for temperature changes of –40 °C \sim +50 °C (–40 °F \sim +122 °F) (24 V AC), –30 °C \sim +50 °C (–22 °F \sim 122 °F) (PoE+)
- Rain wash coating dome cover (WV-SW395A)
- Fog and sandstorm compensation

Standard Accessories

• CD-ROM*1
The followings are for installation. • 8P Alarm Cable

- Code Label*21 p
 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.

Optional Accessory

Wall Mount Bracket
WV-Q122, WV-Q122A

* This catalog is provided for all over the world. Some accessories may not be available in some countries.



- User License Accessory (For MPEG-4)
 BB-HCA5A (NTSC model)
 BB-HCA5CE (PAL model, Korea)*
- User License Accessory (For H.264)
 BB-HCA8A (NTSC model)
 BB-HCA8CE (PAL model, Korea)*
- * Required in Korea.

Specifications

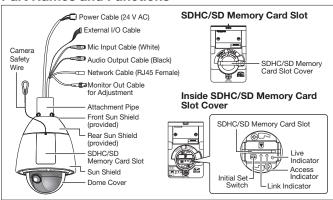
TV System Camera			NTSC PAL		
	Image Sen	isor	1/3 type MOS Sensor		
	Effective P		Approx. 1.3 megapixel		
	Scanning I		Progressive scan		
	Scanning /		4.8 mm (H) x 3.6 mm (V)		
		Illumination	4.8 mm (H) x 3.6 mm (V) Color: 0.5 lx, B/W: 0.06 lx at F1.6 (Shutter: 1/30 s, AGC: High),		
			Color: 0.031 k, B/W: 0.001 k at 11.6 (Shutter: 1/30 s, AGC: High)		
	White Bala	ince	AWC (2,000 ~ 10,000 K), ATW1 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,000 K)		
	Light Cont		Indoor scene (50 Hz / 60 Hz) / Outdoor scene / Fix shutter		
	Shutter Sp		Fix shutter : OFF (1/30), 3/100, 3/120, 2/100, 2/120, 1/100,		
	Shutter Sp	eed			
			1/120, 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000		
	Super Dyn		On/Off		
	Face Supe	r Dynamic	On/Off (only when Super Dynamic : On)		
	Dynamic F	Range	52 dB typical (Super Dynamic : On, Light Control mode : Indoor)		
	Adaptive E	Black Stretch	On/Off		
	Fog comp		On/Off		
	AGC	STISULIOTI	On (Low) / On(Mid), On(High) / Off		
		Caraciti de LUD		10/00	
		Sensitivity UP	OFF, max. 2/30 s, max. 4/30 s, max. 6/30 s, max. 10/30 s, max	ax. 16/30	
	Black and	White Mode	Mode: AUTO1 / AUTO2 / AUTO3 / On/Off,		
			Level : High / Low, with external control		
		se Reduction	High / Low		
Video Motion Detection			4 areas, Sensitivity : 15 steps, Detection size: 10 steps		
	Privacy Zone		Up to 8 zones, Gray / Mosaic		
	Auto Image Stabilizer		On/Off		
	Camera Title (OSD)		Up to 20 alphanumeric characters (3 selectable character sizes)		
Lens	Focal Length		4.7 mm ~ 84.6 mm		
	Zoom Ratio		18x / 36x with extra optical zoom (at VGA)		
	Digital (Electronic) Zoom		12x (Max. 432x combined with extra optical zoom at VGA)		
	Angular Fie		H: 3.2° (Tele) ~ 55.2° (Wide), V: 2.4° (Tele) ~ 42.1° (Wide)		
	Maximum	Aperture Ratio	1:1.6 (Wide) ~ 4.6 (Tele)		
	Focusing Range		1.5 m ~ ∞		
	Aperture F		F1.6 ~ 22, Close		
Pan and Tilt			0° ~ 350° (With Pan-Flip : 0°~ 360°)		
	Panning S		Manual : approx. 0.5°/s ~ 100°/s, Up to 256 steps (depending on the	o controll	
	r arming o	peeu		ie controll	
	THE STATE OF THE S		Preset: up to approx. 300°/s -30° ~ 90° (upward-level-downward) (With Tilt-Flip: -30°~	0400)	
	Tilting Ran	.ge		210°)	
			Tilting angle limit :		
			10° / 5° / 3° / 0° / -3° / -5° / -10° / -15° / -20° *4 /-25° *4 /	–30° *4	
	Tilting Spe	ed	Manual: approx.0.5°/s ~ 100°/s, Up to 256 steps (depending on th	ne controll	
			Preset : up to approx. 100°/s		
	Proportiona	al Pan/Tilt Control			
		Preset Positions			
	Auto Mode		Off / preset sequence / auto pan / auto track		
	Image Hold		On/Off		
	PTZ Position Display		On/Off		
	Self Return		10 s / 20 s / 30 s / 1 min / 2 min / 3 min / 5 min / 10 min / 20	0 min /	
			30 min / 60 min		
	Pan/tilt Flip *1		On/Off		
	Map Shot		360° map shot / preset map shot		
Browser GUI	Camera Control		Pan/Tilt (16 steps), Zoom, Focus, Click centering, Drag zoon	m Iris	
2.01100. 40.	Garriera Control		Preset position call and program, Auto mode	,,	
	Display Mode		Spot, Quad : Image from 16 cameras can be displayed in 4 diffi	orant Ouc	
	Display IVIC	Jue			
	0 711		screens or 16 split screen (JPEG only). 20 characters camera title	e avaliabli	
	Camera Title		Up to 20 alphanumeric characters		
	Clock Display		Time: 12H / 24H, Date: 5 formats on the browser, Summer time (Ma	anual/AUT	
	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				
	Audio		Audio Output : On/Off Volume adjustment : Low / Middle		
		/ Data Download	Audio Output : On/Off Volume adjustment : Low / Middle		
	SD Memory	y Data Download	Still or motion images recorded in the SDHC/SD memory card can be	downloade	
	SD Memory	y Data Download Menu Language	Still or motion images recorded in the SDHC/SD memory card can be en English, French English, French, Italian,	downloade Spanish	
	SD Memory		Still or motion images recorded in the SDHC/SD memory card can be english, French English, French, Italian, (Installation required for French) German, Russian (Installation required for French)	downloade Spanish llation	
	SD Memory GUI/Setup	Menu Language	Still or motion images recorded in the SDHC/SD memory card can be or English, French (Installation required for French) German, Russian (Installation required except for Eng	downloade Spanish llation llish)	
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	SD Memory GUI/Setup System Lo	Menu Language	Still or motion images recorded in the SDHC/SD memory card can be of English, French (Installation required for French) (Installation required for French) (Installation required for French) (Installation required except for English, French, Italian, German, Russian (Installation required except for English (Installation Installation Installa	downloade Spanish llation llish)	
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Network	SD Memory GUI/Setup System Lo Supported Supported Network IF Image Resolution *2 *3	Menu Language 9 I OS Browser Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate	English, French (Installation required for French) German, Russian (Installation required except for Eng Up to 100 (Internal), Up to 4,000 (SDHC/SD memory when the recording format is set to JPEG.) error logs Microsoft* Windows* 8.1, Microsoft* Windows* 8, Microsoft* Windows* 7, Microsoft* Windows* 8, Microsoft* Windows* 1132 bit) Windows* Internet Explorer* 10 (32 bit) Windows* Internet Explorer* 10 (32 bit) Windows* Internet Explorer* 8 (32 bit) Windows* Internet Explorer* 8 (32 bit) Windows* Internet Explorer* 7 (32 bit) Windows* Internet Explorer* 7 (32 bit) Windows* 100Base-T / 100Base-TX, BJ45 connector H.264:1,280 × 960 / 800 × 600 / VGA (640 × 480) / QVGA (320 × 240), MPEG-4:VGA (640 × 480) / QVGA (320 × 240), MPEG-4:VGA (640 × 480) / QVGA (320 × 240), MPEG-4:VGA (640 × 480) / QVGA (320 × 240), MPEG-4:VGA (640 × 360 / 320 × 180, Up to 30 fps JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 320 × 180, Up to 30 fps JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 320 × 180, Up to 30 fps JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 320 × 180, Up to 30 fps JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 320 × 180, Up to 30 fps JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 320 × 180, Up to 30 fps JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 320 × 180, Up to 30 fps JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 320 × 180, Up to 30 fps JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 320 × 180, Up to 30 fps JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 320 × 180, Up to 30 fps JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 320 × 180, Up to 30 fps JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 320 × 180, Up to 30 fps JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 320 × 180, Up to 30 fps JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 320 × 180, Up to 30 fps JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 320 × 180, Up to 30 fps JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 320 × 180, Up	downloade Spanish Illation Ill	
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Network	SD Memory GUI/Setup System Lo Supported Supported Network IF Image Resolution *2 *3	Menu Language 99 1 OS 1 Browser Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Bit Rate/Client Image Quality Refresh Interval	English, French (Installation required for French) (Installation required except for English, French, Italian, Up to 100 (Internal), Up to 4,000 (SDHC/SD memory when recording format is set to JPEG.) error logs (Installation format is set to JPEG.) error logs (Indicasoft* Windows* 8.1, Microsoft* Windows* 8.4, Microsoft* Windows* 8.4, Microsoft* Windows* 8.4, Microsoft* Windows* 1.32 bit) (Internet Explorer* 11 (32 bit) (Indicasoft* Windows* Internet Explorer* 9 (32 bit) (Indicasoft* Windows* 1.22 bit) (Internet Explorer* 8 (32 bit) (Indicasoft* (Internet Explorer* 7 (32 bit) (Indicasoft* (Internet Explorer* 8 (32 bit) (Internet Explo	downloade Spanish Illation Ill	
Network	SD Memory GUI/Setup System Lo Supported Supported Supported Filmage Resolution *2 *3 H.264/ MPEG-4 *2	Menu Language 9 I OS I Browser Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Ternsmission Type	English, French (Installation required for French) German, Russian (Installation required except for Eng Up to 100 (Internal), Up to 4,000 (SDHC/SD memory when 1 recording format is set to JPEG.) error logs Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® 1, Microsoft® 1, 32 bit) Windows® 1, Microsoft® 1,	downloade Spanish Illation Ill	
Network	SD Memory GUI/Setup System Lo Supported Supported Network IF Image Resolution "2 "3 H.264/ MPEG-4 "2	Menu Language 9 I OS I Browser Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality	Still or motion images recorded in the SDHC/SD memory card can be to English, French (Installation required for French) German, Russian (Installation (Installation required except for English, French, Italian, Up to 100 (Internal), Up to 4,000 (SDHC/SD memory when recording format is set to JPEG.) error logs Microsoft* Windows* 8.1, Microsoft* Windows* 8, Microsoft* Windows* 8, Microsoft* Windows* 7, Microsoft* Windows* 122 bit) Windows* Internet Explorer* 11 (32 bit) Windows* Internet Explorer* 10 (32 bit) Windows* 10 (32	downloade Spanish Illation Ill	
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Network	SD Memory GUI/Setup System Lo Supported Supported Network IF Image Resolution "2 "3 H.264/ MPEG-4 "2	Menu Language 99 I OS I Browser Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type	Still or motion images recorded in the SDHC/SD memory card can be to English, French (Installation required for French) German, Russian (Installation (Installation required except for English, French, Italian, Up to 100 (Internal), Up to 4,000 (SDHC/SD memory when recording format is set to JPEG.) error logs Microsoft* Windows* 8.1, Microsoft* Windows* 8, Microsoft* Windows* 8, Microsoft* Windows* 7, Microsoft* Windows* 122 bit) Windows* Internet Explorer* 11 (32 bit) Windows* Internet Explorer* 10 (32 bit) Windows* 10 (32	downloade Spanish Illation Ill	
Network	SD Memory GUI/Setup System Lo Supported Supported Network IF Image Resolution *2 *3 H.264/ MPEG-4 *2 JPEG (MJPEG)	Menu Language 9 I OS I Browser Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Transmission Type Image Quality Transmission Type	English, French English French English French English French English French English	downloads Spanish Illation Ill	
Network	SD Memory GUI/Setup System Lo Supported Supported Supported Network IF Image Resolution *2 *3 H.264/ MPEG-4 *2 JPEG (MJPEG) Audio Con	Menu Language 9 I OS I Browser Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Transmission Type Image Quality Transmission Type	Still or motion images recorded in the SDHC/SD memory card can be English, French (Installation required for French) German, Russian (Installation required for French) German, Russian (Installation required except for English, French (Installation required except for English (Installation format is set to JPEG.) error logs Microsoft* Windows* 8.1, Microsoft* Windows* 8, Microsoft* Windows* 8, Microsoft* Windows* 8, Microsoft* Windows* 1, Microso	downloads Spanish Illation Ill	
Network	SD Memory GUI/Setup System Lo Supported Supported Network IF Image Resolution *2 *3 H.264/ MPEG-4 *2 JPEG (MJPEG) Audio Con Audio Moc	Menu Language 9 I OS I Browser Aspect ratio: [4:3] Aspect ratio: [16:9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Transmission Type Image Quality Transmission Type Image Guality Transmission Type Impression	English, French English French English French English French English French English French English	downloads Spanish Illation Ill	
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[•] Masses and dimensions are approximate. • Specifications are subject to change without notice

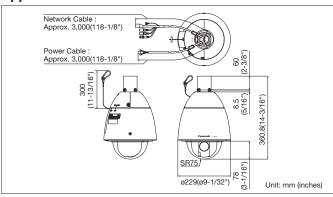
TV System		NTSC	PAL	
Network	FTP Client	Alarm image transfer, Periodic image transfer (When the FTP periodic transmission		
		is failed, backup on an optional SDHC/SD memory card is available.)		
	No. of Simultaneous Users	us Users Up to 14 users (Depends on network conditions)		
	SDHC/SD Memory Card	H.264 recording: Manual REC / Alarm REC (Pre/Post) / Schedule REC		
	(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		
	Cellular Phone Compatibility	ne Compatibility JPEG image, panning/tilting/zoom control, AUX control (by access level)		
	Mobile Terminal Compatibility *6	iPad, iPhone, iPod touch (iOS 4.2.1 or later) Android™ mobile terminals		
Alarm	Alarm Source	3x Terminal inputs, VMD, Command alarm		
	Alarm Actions	SD memory recording, E-mail notification, Indication on browser, Camera positioning, Preset		
		position 1 ~ 64, FTP image transfer, Terminal output, Panasonic protocol output, Auto track		
	Alarm Log	With SD memory card: 5,000 logs, Without SD memory card: 1,000 logs		
	Schedule	Alarm/VMD/Access permission, Preset position call, Position refresh, H.264 recording		
Input /	Monitor Output	utput 1.0 V [P-P] / 75 Ω, NTSC composite, 1.0 V [P-P] / 75 Ω, PAL co		
Output	(for adjustment)	BNC	BNC	
	Microphone/Line Input	MIC IN and Line IN are selectable. ø3.5 mm monaural mini jack		
		(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 1 (DAY/NIGHT IN), ALARM IN 2 (ALARM OUT),		
		ALARM IN 3 (AUX OUT)		
General	Safety/EMC Standard	UL (UL60065), FCC (Part15 ClassA),	CE (EN60065, EN55022 ClassB,	
		C-UL (CAN/CSA C22.2 No.60065),	EN55024), GOST (GOST R 51558)	
		DOC (ICES003 ClassA)		
	Power Source/	24 V AC (50 Hz / 60 Hz): approx. 43 W Heater On		
	Consumption	PoE Plus: approx. 24.0 W (IEEE802.3at Type2 compliant, Class 4 device) Heater On		
	Ambient Operating $-40 ^{\circ}\text{C} \sim +50 ^{\circ}\text{C} (-40 ^{\circ}\text{F} \sim 122 ^{\circ}\text{F})$			
	Temperature/Humidity	$-30~^{\circ}\text{C}\sim+50~^{\circ}\text{C}$ (–22 $^{\circ}\text{F}\sim122~^{\circ}\text{F})$ (PoE Plus), 90 % or less (without condensation)		
	Impact Protection	IEC 62262 : 2002 IK10 (Impact energy 20J)		
	Water and Dust Resistance	IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard.		
	Dimensions	ø229 mm x 360.8 mm (H) (ø9-1/32" x 14-3/16" (H)), Diameter of the dome: 150 mm (5-29/32")		
	Mass (approx.)	4.6 kg (10.14 lbs.)		

¹¹ Application software V.1.05 / Driver software V.1.22 or later. The pan/tilt-flip function cannot be activated by clicking live images. When the zoom ratio is adjusted to the "TELE" side, images will be partially hidden even if the pan/tilt-flip function is activated. '2 H.264 and MPEG-4 are alternative. '3 [4:3] and [16:9] are alternative. '4 Images may partially covered depending on the housing brackets. '5 When used with a continuous power supply (camera internal temperature must be above -10°C, and installation and startup should be done at above -30°C.) '6 For further information about compatible devices, refer to our website (http://security.panasonic.com/pss/security/support/info.html).

Part Names and Functions



Appearance



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Important

- Safety Precaution: Carefully read the Important Information, Installation Guide and operating instructions before using this product.
- Panasonic cannot be responsible for the performance of the network and/or other manufacturers' products used on the network.

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