

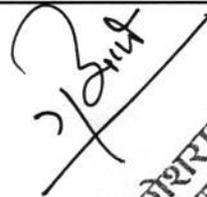


Sundarharaicha Municipality
Office of the Municipal Executive
Biratchowk, Morang
Koshi Province

Specification for वडा कार्यालय र चोक बजारमा सि सि क्यामेरा जडान,सु.ह-२

Technical specification of 4MP ColorVu Fixed Bullet Network Camera	
Manufacturer, Country	
Brand	
Model	
Product Type	4 MP Fixed Bullet Network Camera
Image Sensor	1/1.8" Progressive Scan CMOS
Minimum Illumination	Color: 0.0005 Lux @ (F1.0, AGC ON), 0 Lux with white light
Shutter Speed	1/3 s to 1/100,000 s
Angle Adjustment	Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360°
Day & Night	IR cut filter
Resolution	2688 × 1520
Lens	Fixed focal lens, 2.8, 4 and 6 mm optional
Focal length and Field of View (FOV)	2.8 mm, horizontal FOV 112°, vertical FOV 61°, diagonal FOV 134° 4 mm, horizontal FOV 95°, vertical FOV 51°, diagonal FOV 115° 6 mm, horizontal FOV 58°, vertical FOV 31°, diagonal FOV 69°
Aperture	F1.0
Illuminator	White light
Supplement Light Range	60 m
Smart Light	Yes
Compression	H.265/H.264
Video Streams	50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)
Interface	1 × RJ45 10/100 Mbps Ethernet
Built-In Audio	Yes
On-Board Storage	microSD / microSDHC / microSDXC up to 512 GB capacity
API	ONVIF(S,G,T), ISAPI,SDK etc
Image	WDR 130dB, SNR >=52dB
Power Supply	12 VDC ±25%, 0.7 A / PoE (IEEE 802.3af, max. 10.5 W)
Protection	IP67: IEC 60529-2013
Event & Alarm	Motion detection, upload to FTP/NAS/memory card, notify surveillance center, email trigger, audible warning
Warranty	1 year
2MP Dome Camera	
Manufacturer, Country	


Sagar Bhandari
IT officer


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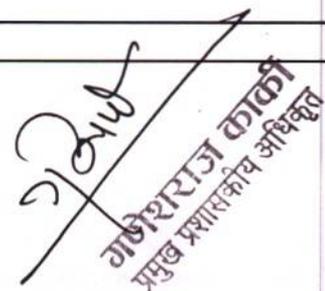
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Brand	
Model	
Product Type	2 MP Dome Network Camera
Image Sensor	1/2.7" Progressive Scan CMOS
Minimum Illumination	Color: 0.01 Lux @(F2.0, AGC ON), B/W: 0 Lux with IR
Shutter Speed	1/3 s to 1/100,000 s
Angle Adjustment	Pan: 0° to 335°, tilt: 0° to 70°
Day & Night	IR cut filter
Resolution	1920×1080
Lens	Fixed focal lens, 2.8 and 4 mm optional
Focal length and Field of View (FOV)	2.8 mm, horizontal FOV 112.1°, vertical FOV 60.0°, diagonal FOV 132.2° 4 mm, horizontal FOV 90.2°, vertical FOV 48.6°, diagonal FOV 107.6°
Aperture	F2.0
Illuminator	IR
Supplement Light Range	Up to 30 m
Compression	H.265/H.264
Video Streams	Main stream: 50 Hz: 25 fps (1920 × 1080, 1280 × 720) 60 Hz: 30 fps (1920 × 1080, 1280 × 720)
Interface	1 × RJ45 10/100 Mbps Ethernet
On-Board Storage	microSD / microSDHC / microSDXC up to 512 GB capacity
API	ISAPI
Image	Digital WDR
Power Supply	12 VDC ±25%, 0.4 A / PoE (IEEE 802.3af, Class 3, max. 6.5 W)
Protection	IP67: IEC 60529-2013, IK10: IEC 62262:2002
Event & Alarm	Motion detection, upload to FTP, notify surveillance center, send
Warranty	1 year

Technical Specification for 32 ch NVR

Manufacturer, Country	
Brand	
Model	
Device Type	Network Video Recorder (NVR)
IP Camera Input Channels	Up to 32 channels or more
Supported Camera Resolution	Up to 12 MP(optional)
Video Compression	H.265+, H.265, H.264+, H.264
Incoming Bandwidth	256 Mbps
Outgoing Bandwidth	160 Mbps

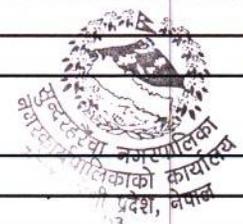



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2	Decoding Capacity	2-ch@12MP, 3-ch@8MP, 6-ch@4MP
	Playback	16-channel synchronous
	Video Output	HDMI (4K) + VGA
	Storage (HDD)	2 × SATA (up to 10TB each)
	AI Features	Face recognition, Motion Detection 2.0, Perimeter protection
	Protocols	ONVIF, SDK, ISAPI
	Network Port	1 × RJ-45 10/100/1000 Mbps
	Power	12V DC, 3.33A
	Warranty	2 years service and parts
		Load/Unload Cycles
	Warranty	Min 1 Year
4TB HDD		
3	Manufacture, Country	
	Brand Name	
	Model No.	
	Capacities	4 TB
	Interface	SATA 6Gb/s
	FEATURES AND PERFORMANCE	
	Max Sustained Transfer Rate OD (MB/s)	> 180MB/s
	Hard Disk Rotational Speed	More than or equal 5400 RPM
	Cache	64 MB or higher
	Load/Unload Cycles	300,000
	Warranty	Min 1 Year
43" FHD		
4	Manufacture, Country	
	Brand Name	
	Model No.	
	Loudspeaker	5W * 2
	VESA	M4 200mm*200mm with IR
	HDMI In	1
	VGA In	1
	Audio In	1
	Backlight	D-LED Backlight
	Screen Size	42.5 inch
	Pixel Pitch	0.49(H)mm * 0.49(V) mm
	Max Resolution	1920 * 1080
	Refresh Rate	60Hz
	Brightness	350 cd/m²
	Contrast	1200:1
		Response Time

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Color	16.7M
Active Area	940.896 (H) × 529.254(V) mm
Viewing Angle	Horizontal 178°, Vertical 178°
Power Supply	100 to 240 V AC, 50/60Hz
Standby Power Consumption	0.5W
Power Consumption	≤120W
Warranty	2 years service and parts

Technical Specification Optical Fiber

5	Manufacturer, Country	
	Brand	
	Model	
	Fiber Type	Single Mode Fiber (SMF)
	No. of Fibers per Loose Tube	6 Core (6F)
	Fiber Color Code	Blue, Orange, Green, Brown, Grey, White (or equivalent)
	Fiber Attenuation @1310 nm	≤ 0.36 dB/km
	Fiber Attenuation @1550 nm	≤ 0.22 dB/km
	Strength Members	1 mm × 2 Steel rods embedded in HDPE sheath
	Loose Tube Count	1
	Loose Tube Material	PBT (Polybutylene Terephthalate)
	Loose Tube Nominal Diameter	1.9 mm
	Filling Compound	Thixotropic Jelly
	Outer Jacket Material	HDPE
	Outer Jacket Color	Black
	Outer Jacket Thickness	2.1 mm
	Nominal Cable Diameter	8 mm
	Maximum Installation Ten	7000 N
Application	Outdoor / Duct / Road-side installation	

Technical specification of PoE switch

6	Brand	
	Manufacturer, Country	
	Model	
	Ports	4 x 10/100Mbps PoE ports, and and 2 × 10/100Mbps RJ45 ports.
	Layer Type	Unmanaged
	switching capacity	1.2 Gbps or higher
	Forwarding rate	0.75 Mbps or higher
	Forwarding mode	Store and forward switching

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	MAC address table	2000
	Surge Protection	4kV
	Warranty	1 year+
Technical specification of Electric wire		
Aluminium Conductor PVC Insulation Aluminium Armoured PVC Outer Sheathed, SIZE6 - Sq.mm.,VOLATGE RATING-Upto1.1 kV		
Technical specification of outdoor ethernet cable		
7	Brand	
	Manufacturer, Country	
	Model	
	Cable type	UTP, 4 pair
	Ethernet name	1000Base T or higher
	Speed	1000Mbps or higher
	Distance	100 meters
	Length	300mtr or more
	Cable name	Cat 6
Technical specification of media converter		
8	10/100/1000Mbps or 1Gbps speeds or higher	
Technical specification of mouse		
9	Brand	
	Model	
	Type	USB wired mouse
	Sensitivity	1000 dpi or higher
	Cable Length	1.3 m or more
	No. of key	2+1
	Compatibility	Laptop, Personal Computers
	Use cases	General computing
	Warranty	1 years
Technical Specification of Pole Box		
10	Use cases: Road cctv junction, metal (stainless steel)	

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