

Leadership and Ideas for Tomorrow

PURCHASE ORDER

To

M/s Digital Links (Pvt) Ltd

Order No.

IBA-MC/PD/P&S/205/0079/2015-16

Date of Issue Date of Delivery November 25, 2015

Place of Delivery

December 8, 2015 IBA, Main Campus

Total Amount

Rs.1,250,782.65 (Including GST)

(Rupees One Million Two Hundred Fifty Thousand Seven Hundred Eighty

Two & Paisa Sixty Five Only)

S.#	DESCRIPTION	QTY	RATE (RS.)	AMOUNT (RS.)
	IP CAMERA- MINI DOME - 1.3 MP HIK VISION 1. Support dual stream, and the sub-stream for mobile surveillance 2. High-performance and long service life infrared LED, Approx. 10 to 30 meters IR range 3. Must Support intrusion detection, line crossing detection 4. Must Support VCA, which is compatible with NVR for the second time of video searching and analyzing 5. Up to 1.3 megapixel (1280 × 960) resolution 6. Wi-Fi Support 7. Standard video compression with high compression ratio, ROI (region of interest) encoding 8. Progressive scan CMOS, capture motion video without incised margin 9. Built-in Micro SD/SDHC/SDXC card slot, up to 128 GB 10. Ingress Protection level: IP66 11. Two-way audio Support 12. Audio Support Input Output 13. IR cut filter with auto switch 14. PoE (Power over Ethernet) 15. Impact Protection: IEC60068-2-75 test, Eh. 20J; EN50102, up to IK10 16. Other functions: rotate mode, alarm, mirror, reset button, etc 17. Image Sensor: 1/3" Progressive Scan CMOS 18. Min, Illumination: 0.01Lux @ (F1.2, AGC ON), 0 Lux with IR, 0.028 Lux @ (F2.0, AGC ON), 0 Lux with IR	42 units	Rs.14,435,00	Rs:606,270.00

M12 21. Lens Mount: 22. Day &Night: IR cut filter with auto switch 23. Digital Noise Reduction: 3D DNR 24. Wide Dynamic Range: Digital WDR 25. Angle Adjustment: 355°, Tilt: 0° - 75°, Rotation: 0-355° H.264+ Video Compression 27. H.264 Type: Main Profile 28. Video Bit Rate:32 Kbps - 12 Mbps 29. Dual Stream: Yes 30. Audio Compression: G.711/G.722.1/G.726/MP2L2 31. Audio Bit Rate: 64Kbps(G.711) 16Kbps(G,722.1)/16Kbps(G,726)/32-128Kbps(MP21.2) 1280 x 960 Max. Resolution: 50 Hz; 25 fps (1280) 33. Frame Rate: × 960), 25 fps (1280 x 720) 60 Hz: 30 fps (1280 × 960), 30 fps (1280 x 34. Image Settings: Rotate mode, Saturation, Brightness, Contrast adjustable by client software or web browser Backlight compensation: Yes, zone optional 36. ROI: (Region of interest) 37. Line crossing Detection Support 38. Network Storage: Local storage: Built-in Micro SD/SDHC/SDXC card slot, up to 128 GB. NAS: Must Supported NAS (Support NFS, SMB/CIFS) 40. Protocol:TCP/IP,ICMP,HTTP,HTTPS,FTP,D HCP.DNS.DDNS PPPoE, NTP, UPnP, RTP,RTSP,RTCP. SMTP, SNMP PPPoE,NTP,UPnP.SMTP.SNMP,IGMP 802.1X.QoS,IPv6,Bonjour ONVIE, PSIA, CGL ISAPI 41. Standard: LRJ45 42. Communication Interface: 10M/100M Ethernet interface 43. Alarm interface: 44. Audio interface: 1 audio I/O 45. Wireless Standards: IEEE802.11b, 802.11g, 802.11n 2.4 GHz - 2.4835 46. Frequency Range: GHz 47. Channel Bandwidth: 20/40MHz Support 802.11b: CCK, QPSK. 48. Protocols: BPSK OFDM 49. 802.11g/n: 64/128-bit WEP. 50. Security: WPA/WPA2, WPA-PSK/WPA2-PSK, WPS Fransmit Output Power: 17±1.5dBm (a) 11Mbps

11g: 14±1,5dBm @ 54Mbps 11n: 12.5±1.5dBm

	52. Receive Sensitivity: 11b: -90dBm @			
	HMbps (Typical) Hg: -75dBm @ 54Mpbs (Typical)			
	11n: -74dBm (Typical)			
	53. Transfer Rates: 11b: 11Mbps			
	11g: 54Mbps			
	In: up to			
	54. Wireless Range:50m (minimum)			
	54. Wireless Range 50th (minimum)			
	55. Wireless Standards: IEEE802.11b. 802.11g, 802.11n			
	56. Operating Conditions: -30 °C - 60 °C (-22 °F - 140 °F)			
	57. Humidity: 95% or less (non-			
	condensing)			
1	58. Power Supply: 12 V DC ± 10% (802.3af)			
	59. PoE: (802.5a1) 60. Power Consumption: Max. 5W			
	61. Ingress Protection level: IP66			
	62. IR Range: 30 meters			
	63. Impact Protection: IEC60068-2-75Eh,			
	20J: EN50102, up to IK10			
	64. Dimensions: Φ111 × 82 (4.4" × 3.2")			
	65. Weight: 500g (1.1 lb)			
	65. Alarm Trigger: Line Crossing, Intrusion Detection, Motion			
	detection.			
	Dynamic analysis, Tampering, alarm. One-key			
	reset			
	Network disconnect, IP address conflict, Storage			
	exception. Flash-prevention, dual stream,			
	heartbeat, mirror, password protection, privacy mask.			
	watermark, IP address filtering.			
	Watermark II dedices the tog			
	66. The camera Box should include following items:-			
	a. IP Camera			
	b. Power Adaptor 220 v			
	Screw driver L Key type for camera Weather proof network connector			
1.	d. Weather proof fletwork confector			
	e. Camera manual			
	f. Packing			
	67. Power supply should be included on each			
	camera.			
	NVR - 32 channel HIK VISION			
	Connectable to the third-party network			
	cameras like like ACTI, Arecont, AXIS.			
	Bosch, Brickcom, Canon, ONVIF.	05	Mark the street of the street of	0 - 242 750 00
2	PANASONIC, Pelco, PSIA, SAMSUNG.	units	Rs.68,750.00	Rs.343,750.00
	SANYO, SONY and Vivotek and ZAVIO.			
	 Video Content Analysis: NVR Should support VCA for smart search 			
	Stream Media Server: NVR should support			
	Stream Media Server to increase the number			
	of users on Network or to decrease the load			

- over WAN connection for multiple users at remote location
- 4. Up to 64 network cameras can be connected
- Support live view, storage, and playback of the connected camera with up to the resolution of 5 megapixels.
- Simultaneous HDMI and VGA at 1920 × 1080 resolution.
- New GUI and support starting record with one key;
- Redundant recording, holiday recording and capture schedule configuration;
- Realize instant playback for assigned channel during multi-channel display mode.
- Up to 16-ch synchronous playback at 4CIF resolution.
- Smart search for the selected area in the video.
- Customization of tags, searching, and playing back by tags.
- Locking and unlocking record files.
- Compression: "H.264+" (NVR Should not be H.264 or below)
- Support HDD quota and group modes; different capacity can be assigned to different channel.
- Up to 4 SATA hard disks and 1 eSATA disk can be connected, for both recording and backup.
- I self-adaptive 10M/100M/1000M network interface.
- Support Hikvision DDNS (Dynamic Domain Name System);
- Must Support Channel-zero encoding, which enables you to get a view in the remote client or web browser of all the channels in one screen.
- Support network detection, including network delay, packet loss, etc.
- Adopt pioneering dual-OS design to ensure the security of system running.
- Channel Zero: NVR Should Support Channel Zero function with VBR function i.e. (32Kbps ~ 2Mbps) which sucks one camera bandwidth and shows at most 16-cameras View at a time
- VGA/HDMI or CVBS: NVR should independently operate (VGA/HDMI) & CVBS
- 24. IP video/Audio input: 32-ch
- Two-way audio: 1-ch, BNC (2.0 Vpp, 1kΩ)
- 26. Incoming bandwidth: 160Mbps
- 27. Outgoing bandwidth: 160Mbps
- 28. Remote Connection: 128
- 29. Video/Audio output:
- Recording resolution 5MP /3MP /1080P/UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF

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- Compression: "H.264+" (NVR Should not be H.264 or below)
- 32. Channel Zero: NVR Should Support Channel

Zero function with VBR ability i.e. (32Kbps ~ 2Mbps) which sucks one camera bandwidth and shows at most 16-cameras View at a time

 VGA/HDMI or CVBS: NVR should independently operate (VGA/HDMI) & CVBS

 Video Content Analysis: NVR Should support VCA for smart search

- Stream Media Server: NVR should support Stream Media Server to increase the number of users on Network or to decrease the load over WAN connection for multiple users at remote location
- 36. NAS: NVR should support NAS function
- 37. Frame rate: Main stream: 25 fps (P) / 30 fps (N)

1. Sub-stream: 25 fps (P) / 30 fps (N)

- 38. CVBS output: 1-ch, BNC (1.0 Vp-p, 75 Ω)
- 39. Resolution: 704 × 576 (PAL); 704 × 480 (NTSC)
- 40. HDMI output: 1-ch, resolution: 1920 × 1080P /60Hz, 1920 × 1080P /50Hz, 1600 × 1200 /60Hz, 1280 × 1024 /60Hz, 1280 × 720 /60Hz, 1024 × 768 /60Hz
- 41. VGA output: 1-ch, resolution: 1920 × 1080P /60Hz, 1600 × 1200 /60Hz, 1280 × 1024 /60Hz, 1280 × 720 /60Hz, 1024 × 768 60Hz
- Audio output: 2-ch, BNC (Linear, 600Ω)
- 43. Playback resolution 5MP /3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF
- 44. Synchronous playback: 16-ch
- Hard disk (SATA)
 SATA interfaces
- 46. eSATA | 1 eSATA interface
- 47. Capacity: Up to 4TB capacity for each HDD
- 48. Network interface: 1 RJ-45 10 /100 /1000 Mbps self-adaptive Ethernet
- 49. Serial interface: RS-232; RS-485; Keyboard
- 50. USB interface: 3 × USB 2.0
- 51. Alarm in:
- 16
- 52. Alarm out:
- 4
- Power supply: 100 ~ 240 VAC, 6.3 A, 50 ~ 60 Hz
- 54. Power Consumption: (without hard disk) < 45 W
- 55. Working temperature: -10 °C ~ +55 °C
- 56. Working humidity: 10 % 90 %
- 57. Chassis 19-inch rack-mounted 1.5U chassis
- 58. Dimensions (W × D × H) 445 × 390 ×70 mm
- Weight ≤ 4 Kg (8.82 lb) (without hard disk)



	LED-32 channel	SAMSUNG				
	Display Technology LED					
3 3 4 5 6 7 8 8 9 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2	3. Colors 4. Speakers (Bottom side) 5. Audio Power of Colors 6. SRS True Surface 7. HDMI 8. USB 9. AV in 20. AV out 21. RF 22. Component (Y) 23. VGA 24. SPDIF 25. 3D Glasses 26. Power Supply 27. Power Consum	720p or Energy LED TV 250 1200:1 or bette e 6.5ms e (H/V) >30,000hrs (n 16.7M Integrate Dutput round HD Yes	/ Star // er 170°/170° nin) ed speakers 5W+5W 2 1 1 1 1 Coaxial No 0V 50/60Hz 50W	3 unit	Rs.39.675.00	Rs.119,025.00
Total					Rs.1,069,045.00	
17% GST				Rs.181,737.65		
Total Amount				Rs.1,250,782,65		

General Instructions:-

- All the items should be available in ready stock and displayed in front of the end user.
- No un marked items acceptable
- No Neutral version and Chinese version acceptable.
- Supplier should have office located in Karachi.
- Items should have local warranty.

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Terms & Conditions:

- Material of this order is subject to final inspection at the time of delivery.
- We reserve the right to cancel any or all the above items if material is not in accordance with our specification or if the delivery is delayed.
- Payment will be made through crossed cheque after the receipt of the bill and delivery of the above item.
- General Sales Tax will be paid on applicable items only.
- Penalty at the rate of 2% per month on actual will be imposed on delayed delivery.
- The rate / item cost is final and no change what so ever will be accepted.
- Government tax(es), levi(es) and charge(s) will be charged at actual as per SRO.
- Competent Authority reserves the right to change / alter / remove any item or article or reduce / enhance quantity without assigning any reason.
- Invoice / bill, Purchase Order & Delivery Challan should be submitted to Finance Department.
- Advance Payment subject to Bank Guarantee
- All Covernment taxes (including Income tax and stamp duty), levies and charges will be charged as per applicable rates / denomination of Purchase / Work Order.
- Stamp duty 0.35% for Goods against total value of Purchase Order will be levied accordingly.

Manager Purchase & Stores

Modistrar