

**Government of West Bengal**  
**Office of The Addl. Director General & Inspector General of Police**  
**Telecommunication, West Bengal**  
**3 Manik Bandyopadhyay Sarani, Tollygunj, Kolkata 700 040**  
**Phone: 033-23770400/1701, Fax: 033-23110651, e-mail: telecomhqrs@gmail.com**

**Notice Inviting e-Tender No. WBPTel/DG/eNIT-33/Wireless Stores/2017-18**

**Date: 08-03-2018**

The Addl. Director General & Inspector General of Police, Telecommunication, West Bengal invites e-Tenders on behalf of Home Department, Government of West Bengal from the bonafide manufacturers/dealers or distributors/traders & Industrial undertaking organization etc. who have tender specific authorization (desirable) for the item in the table below:-

Sl.	Items	Qty	Specification
1.	3.0 Megapixel HD Network & Coaxial Starlight IR 50M Bullet Camera	100 Nos	As per Annexure - IV (Page 10 to 14)
2.	2.0 MP HD Network Starlight High Speed Dome Camera	100 Nos	
3.	Embedded HD 9 Channel Network Video Recorder	50 Nos	
4.	Surveillance HDD 2 TB 7200 rpm	50 Nos	
5.	CAT6 Cable (make D-Link/Digilink)	5000 metre	
6.	CSTA9 Micrometer Single channel OFC	5000 metre	
7.	HD IPS 22 Inch LED Monitor (make LG)	50 Nos	
8.	8 Port Switch 10/100 Mbps (make D-Link)	40 Nos	
9.	16 Port Switch 10/100/1000 Gbps (make D-Link)	10 Nos	
10.	RJ 45 Connector Make: D-Link	2000 Nos.	
11.	Flexible Wire (Power)	1000 metre	
12.	Spike Guard, 4 way Socket with Switch Make: Anchor	100 Nos.	
13.	Ethernet Gigabits Media converter (Optical fibre Network and vice-versa) Make : i-ball	50 Nos	
	EMD Rs. 2,00,000/-		

**ELIGIBILITY OF BIDDERS:**

1. Only Manufacturers/Direct Importers/Dealers having the Tender specific authorization from OEM (Original Equipment Manufacturer) are eligible for participation in the Tender.

In the event of e-filling, intending bidder may download the Tender documents from the website: <http://wbtenders.gov.in> directly with the help of Digital Signature Certificate. **Earnest money Rs. 2,00,000/- (Rupees Two Lakh) only may be remitted through Demand Draft from any Nationalized Bank in favour of Additional Director General & Inspector General of Police, Telecommunication, West Bengal** and should be submitted physically at the Office of the Addl. Director General & Inspector General of Police Telecommunication, West Bengal, 3 Manik Bandyopadhyay Sarani, Tollygung, Kolkata 700 040 under the sealed cover" as per Date & Time, mentioned in Clause 10.

2. Both Technical Bid & Financial Bid are to be submitted online (both words & figures) concurrently duly digitally signed in the website: <https://wbtenders.gov.in> as per Date & Time schedule stated in Clause 10.

3. (a) A tender Bidder, after being accepted by the undersigned authority, shall be liable to supply all the items in question as per the accepted rate, for a period of one year from the date of acceptance, without any hike in the prices, whatever are the circumstantial criteria thereby.

(b) Conditional/incomplete bid will not be considered.

(c) **Tenderers should specify the address within the City of Kolkata** and Phone/Mobile, Fax No./e-mail I.D. for the purpose of quick communication in the event of urgency.

(d) Deviation Statement (if any) may also be enclosed.

(e) There should be an on site manufacturing guarantee/warranty as per OEM for the item with a mention of specific period.

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4. The selected contractors shall have to deposit 5% security deposit of the total contract value of the items in favour of the Additional Director General & Inspector General of Police Telecommunication, West Bengal in G P Notes/ Bank Guarantee Bond/F.D.R. of any nationalized bank and to execute an agreement of contract within 3 (three) days

from the date of issue of the work order failing which the letter of acceptance, so issued, may be treated as cancelled as well as the earnest money so deposited may be forfeited and the firm may be blacklisted. No interest would be paid on the performance Security Deposit. Payment will be made as and when fund will be available from the concerned source subject to complete supply of articles.

5. Orders for the supply of the approved products will be placed with the successful tenderers after the execution of the agreements, and such supply shall have to be made in such installments as may be fixed or spread over the period to be specified in the supply orders to be made in pursuance of the agreements. The successful tenderer will have to supply within the specified time schedule that had been assured at the time of selection as supplier.

6. Tender Specific authorization Certificate of OEM (Original Equipment Manufacturer) is desirable.

7. It should be noted that the firm/firms will be selected purely on a "PROVISIONAL BASIS" and the forecast requirement may increase or decrease by any quantity during the period of validity of the tender.

8. Addl. Director General & Inspector General of Police, Telecommunication, West Bengal reserves the right to reject any/or all the tendered rates without assigning any reason and not to place any orders even after selection and is not liable for any cost that might have incurred by any bidder at the stage of bidding and also reserves the right to, divide the contract amongst any number of tenderers, if required so.

Addl. Director General & Inspector General of Police Telecommunication, West Bengal does not bind himself to accept the lowest rate.

9. Selected contractors will have to supply articles according to the indents placed with them from time to time within the specified period as per approved sample and/or the product demonstrated for inspection and evaluation, failing which the firm may be blacklisted with the forfeiture of security deposit. In the event of the non-supply of articles or if articles supplied by the selected contractors) is found to be sub-standard, the Addl. Director General & Inspector General of Police Telecommunication, West Bengal may (without notice to the contractors) purchase from elsewhere the articles required. Any loss incurred by reason of the price paid for such article(s) or any other loss or expense incurred by reason of such default on the part of the contractors may be deducted from the bills or any money payable to the contractors or from the security deposit of the concerned contractor(s). If the performance of the supplied items/equipment are found unsatisfactory or not as to our desired level even after payment, the supplier has to refund the entire amount paid to him earlier for that particular item/equipment.

10. **DATE & TIME SCHEDULE:**

SI. No.	Particulars	Date & Time
1	Date of uploading of NIT Documents (Online)	08-03-2018 at 1800 hrs
2	Documents download/Sell Start date (Online)	08-03-2018 at 1800 hrs
3	Date of hoisting of documents at Departmental Website "policewb.gov.in"	09-03-2018 at 1600 hrs
4	Bid submission start date (Online)	08-03-2018 at 1800 hrs
5	Bid submission closing date (Online)	30-03-2018 at 1400 hrs
6	Last date of submission of Earnest Money Deposit (Online / Offline)	30-03-2018 at 1800 hrs
7	Technical Bid opening (Bid A)	03-04-2018 at 1400 hrs
8	Date of uploading list of technically qualified bidders	To be notified later
9	Date for opening of Financial Proposal (Bid B) (Online)	To be notified later
10	Date of uploading list of bidders along with the approved rates	To be notified later

11. Bid opening Location: Office of the Addl. Director General & Inspector General of Police, Telecommunication, West Bengal, 3 Manik Bandyopadhyay Sarani, Tollygung, Kolkata 700 040.

12. Canvassing on the part of tenderers will render his tender to cancellation summarily.

13. **For any clarification and collection/verification of sample regarding Specifications of the Tender, Tenderers are requested to contact with O/C CCTV and / or Inspector Stores, Telecommunication Hqrs., 3 Manik Bandyopadhyay Sarani, Tollygunj, Kolkata 700 040.**

**NB:** Any inconsistencies in the descriptions may be expeditiously brought to the notice of the Tendering authority.

## INSTRUCTIONS TO BIDDERS

### GENERAL GUIDANCE FOR e-TENDERING:

Instructions/ Guidelines for electronic submission of the tenders have been annexed for assisting the contractors to participate in e-Tendering.

#### **I. REGISTRATION OF THE CONTRACTOR:**

Any contractors willing to take part in the process of e-Tendering will have to be enrolled & registered with the Government e-Procurement System, through logging on to <https://wbtenders.gov.in> (the Web Portal of Public Works Department) the contractor is to click on the link for e-Tendering site as given on the web portal.

#### **II. DIGITAL SIGNATURE CERTIFICATE (DSC):**

Each Contractor is required to obtain a Class-II OR Class-III Digital Signature Certificate (DSC) for submission of tenders for the approval service of the National Informatics Centre (NIC) on payment of requisite amount. Details are available at the website stated in Clause-I above DSC is given as a USB e-Token.

**III.** The contractor can search & download N.I.T. & Tender Document(s) electronically from computer once he logs on to the website mentioned in clause-I using the Digital Signature Certificate. This is the only mode of collection of Tender Documents.

#### **IV. SUBMISSION OF TENDERS:**

Tenders are to be submitted through online to the website stated in Clause-I in two folders at a time for each work, one in Technical Bid & the other is Financial Bid before the prescribed date & time using the Digital Signature Certificate (DSC). The documents are to be uploaded virus scanned copy duly Digital Signed. The documents will get encrypted (transformed into non readable formats).

#### **V. PENALTY CLAUSES:**

**PENALTY FOR FORMATION OF CARTEL OR FURNISHING OF FRAUDULENT / MISLEADING DOCUMENTS:** If during the tender process or at any state during the validity of the tender period, it is found that a Tenderer(s) has formed a cartel in what so ever form or name to fix up the rates or suppliers to the detriment of the fairness of the tender process, penal measures shall be initiated. Similar penal measures shall also be initiated against those tenders who have submitted false / misleading / fraudulent documents or made incorrect declarations. The penal measure will be forfeiture of Earnest Money, Forfeiture of Performance Bank Guarantee if enlisted as a supplier.

#### **VI. TECHNICAL PROPOSAL:**

The Technical proposal should contain scanned copies of the following in two covers (folders).

##### **(a) Statutory Cover containing the following documents:**

(1) NIT (2) EMD (3) AGREEMENT PAPER (AS ANNEXTURE-III) (4) TECHNICAL SPECIFICATIONS & WARRANTIES AS PER OEM

##### **(b) Non-statutory Cover containing the following documents:**

THE ABOVE STATED NON-STATUTORY/TECHNICAL DOCUMENTS SHOULD BE ARRANGED IN THE FOLLOWING MANNER:-

Click the check boxes beside the necessary documents in the My Document list and then click the tab "Submit Non Statutory Documents" to send the selected documents to Non-Statutory folder.

Next Click the tab "Click to Encrypt and upload" and then click the "Technical" Folder to upload the Technical Documents.

SI. No.	Category Name	Sub-Category Description	Detail(s)
A	Certificate(s)	Certificate(s)	GST, Trade License, Income Tax/PAN, Letter of Authorization/DPL (Dealer Possession License)/ OEM (Original Equipment Manufacturer), Latest P.Tax (Challan).
B	Company Detail(s)	Company Detail	Proprietorship Firm (Trade License) Partnership Firm (Partnership Deed, Trade License), Ltd. Company (Incorporation Certificate, Trade License) Society (Society Registration Copy, Trade License) Power of Attorney.
C	Credential	Credential - 1	Similar nature of work done & completion certificate, which is applicable for eligibility in this tender.
D	Returns	Income Tax	Last 3 Financial Year's of Income Tax i.e. for 2014-15, 2015-16& 2016-17

**NOTE: BLACK & WHITE SCAN, MULTIPAGE SCAN, DPI MAX 200-300**

**I. FINANCIAL PROPOSAL:**

- (a) The contractor is to quote the rate online through computer in the space marked for quoting rate in the BOQ (Bill of Quantities). *The Quoted Rate should not be higher than printed MRP.*
- (b) If any contractor is exempted from payment of EMD, copy of relevant Government Order needs to be furnished.
- (c) The financial proposal should contain the following documents in one cover (folder) i.e., BOQ (Bill of Quantities).
- (d) Only downloaded copies of the above documents are to be uploaded virus scanned & Digitally Signed by the contractor. If any tenderer fails to produce the original hard copies of the documents like Completion Certificates and any other documents on demand of the Tender Evaluation Committee within a specified time frame or if any deviation is detected in the hard copies from the uploaded soft copies, it may be treated as submission of false documents by the tenderer and action may be referred to the appropriate authority for prosecution as per relevant IT Act.

### OPENING & EVALUATION OF TENDER:

1. Opening of Technical Proposal: A Committee comprising of Superintendent of Police, Deputy Superintendent of Police, and a team of Technical officers of Telecommunication West Bengal will open the Technical bid of the Tender.
2. Intending Tenderers may remain present if they so desire.
3. Cover (folder) for Statutory Documents will be opened first and if found in order, cover (folder) for Non-Statutory Documents will be opened. If there is any deficiency in the Statutory Documents the tender will summarily be rejected.
4. Decrypted (transformed into readable formats) documents of the non- statutory cover will be downloaded & handed over to the Tender Evaluation Committee.
5. Summary list of technically qualified tenderers will be uploaded online.
6. Pursuant to scrutiny & decision of the Tender Evaluation Committee the summary list of eligible tenderers & the serial number of work for which their proposal will be considered will be uploaded in the web portals.
7. During evaluation, the committee may summoned of the Tenderers and seek clarification/information or documents or original hard copy of any of the documents already submitted and if these are not produced within the stipulated time frame, their proposals will be liable for rejection.
8. **Bidders should participate for all the 13 (Thirteen) items as mentioned in the table in 1<sup>st</sup> paragraph of this NIT. Financial Evaluation will be done on the combined rates for the total items and L1 will be selected as a summation of Sl. No. 1 to 13 as mentioned in NIT.**

### II. REJECTION OF BID:

The Addl. Director General & Inspector General of Police Telecommunication, West Bengal reserves the right to reject any/or all the tendered rates without assigning any reason and not to place any orders even after selection and is not liable for any cost that might have incurred by any bidder at the stage of bidding and also reserves the right to divide the contract amongst any number of Tenderers if required so and to place order for more or less than the quantity mentioned in the forecast requirement. The Addl. Director General & Inspector General of Police, Telecommunication, West Bengal does not bind himself to accept the lowest rate.


### III. AWARD OF CONTRACT:

The Bidder whose Bid has been accepted will be notified by the Tender Inviting & Accepting Authority through acceptance letter / Letter of Acceptance both online & offline to save time. The notification of award will constitute the formation of the Contract. The Agreement in prescribed format in admissible stamp duties will incorporate all agreements between the Tender Accepting Authority and the successful bidder/bidders. The time frame for attending the fault and restoration of equipment within the warranty period and penalty clause for the defaulters will be included in the agreement. All the tender documents including N.I.T. & B.O.Q. will be the part of the contract documents. After receipt of Letter of Acceptance, the successful bidder shall have to submit requisite copies of contract documents downloading from the website stated in the N.I.T. along with requisite cost through Demand Draft issued from any nationalized bank in favor of Addl. Director General & Inspector General of Police Telecommunication, West Bengal for the concerned work within time limit to be set in the letter of acceptance.

***Payment Terms: After receipt and satisfactory testing of the equipment.***

### IV. VALIDITY PERIOD:

***The contract period will be up to April, 2019.***

  
Addl. Director General & Inspector General of Police  
Telecommunication, West Bengal

### **FORMAT FOR CHECK LIST**

<b>Sl.No.</b>	<b>Items</b>	<b>Pl mark ✓</b>		<b>Page No.</b>
1	Application submitted in Annexure - I	Yes	No	
2	Annexure - II (Authorization letter of signatory from the Company)	Yes	No	
3	Annexure - III (Copy of agreement between the manufacturer and the Distributor)	Yes	No	
4	Copy of PAN Card and GST Reg. Certificate of the authorized signatory / Company	Yes	No	
5	Copy of Demand Draft/Pay order as applicable in favour of the Addl. Director General & Inspector General of Police Telecommunication, West Bengal - as Earnest Money	Yes	No	
6	Last 3 financial years' returns of Income Tax, i.e., for 2014-15, 2015-16& 2016-17	Yes	No	
7	Lead time compliance certificate from the Tenderer	Yes	No	

## Annexure - I

### APPLICATION FORMAT

(To be furnished in the Company's official letter pad with full Address and Contact No., etc.)

**To: The Addl. Director General & Inspector General of Police  
Telecommunication, West Bengal  
3 Manik Bandyopadhyay Sarani  
Tollygunj, Kolkata 700 040**

Sub: NIT for Wireless Stores at Office of the Addl. Director General, & Inspector General of Police,  
Telecommunication, West Bengal, 3 Manik Bandyopadhyay Sarani, Tollygunj, Kolkata 700 040.

Ref:

Sir,

Having examined the pre-qualification & other documents published in the NIT, I/we hereby submit all the necessary information and relevant documents for evaluation:

1. That the application is made by me / us on behalf of .....  
In the capacity of.....duly authorized to submit the offer. The authorization letter from the Company is attached in Annexure II.
2. We accept the terms and conditions as laid down in the NIT mentioned above and declare that we shall abide by it for throughout the tender period.
3. We are offering rate for the following item /items and assured supply to the West Bengal Police Telecommunication, Government of West Bengal as mentioned in Page-1.
4. (a) We propose that the order and bill should be raised in our name. For liaisoning, we have appointed M/s ..... having its office at ..... (Address, Contact No. and e-mail address) as C&F agent /Liaisoner /Contact person/ ..... Others (strike out whichever is not applicable) as per clause ..... of the NIT  
OR  
(b) We propose that order and bill should be raised in favour of our authorized Distributor. For that purpose, we have appointed M/s ..... having it's office at ..... (Address with contact No. and e-mail Address) as authorized Distributor who will receive order and payment in his name on our behalf.  
  
(c) The agreement between ourselves and the distributor/C&F/Liaisoner& other documents as prescribed is attached in annexure III .
5. In the event of being selected, supply will be made within the stipulated period excepting the condition which is beyond our control.
6. We understand that:
  - (a) Tender Selection Committee can amend the scope & value of the contract bid under this project.
  - (b) Tender Selection Committee reserves the right to reject any application without assigning any reason.

Date:-

Signature of applicant including title.  
and capacity in which application is made.

Telephone No.:

Mobile No.:

e-Mail Address:

## **Annexure - II**

Authorization letter from Company for authorized signatory.



### **Annexure - III**

Copy of agreement signed between tenderer and the distributor etc.

## Annexure - IV

### **(1) 3.0 Megapixel HD Network & Coaxial Starlight IR 50M Bullet Camera: 100 (One hundred) nos.** **SPECIFICATIONS**

Type		3 Megapixel HD Network StarlightIR 50M Bullet Camera	
Camera	Sensor		1/2.8''Progress Scan CMOS
	Resolution	Main Stream	2048*1536, 1-25(30)FPS; 1920*1080, 1-25(30)FPS; 1280*720, 1-25(30)FPS
		Sub Stream	704*576, 1-25(30)FPS; 640*480, 1-25(30)FPS
	Min. Illumination		Color 0.001Lux@F1.2; B/W 0LUX(IR ON)
	IR Distance		50M, 4pcs Array LED
	S/N Ratio		≥52db
	WDR		≥120db
	Electronic Shutter		1~ 1/10000 sec, Automatic
	Lens		2.8-12mm HD Manual Zoom Lens/Motorized Focus Lens (Optional)
	Day & Night		IR Cut Optical Filter
	Audio/ Video Setting	Video Compression	
Code Stream		32Kbps-16Mbps, Support CBR/VBR	
Video Adjustment		Brightness/ Contrast / Chroma/ Saturation/ Sharpness / GAMMA	
Intelligent Features		Intelligent Code Stream, Video Mask, Out-of-focus Detection, Intelligent Switch Control	
Image Flip		Horizontal, Vertical, Horizontal& Vertical	
Motion Detection		Support	
Privacy Mask		Support	
3D DNR		High/Medium/Low	
OSD Setting		Support Channel Name, Date Time, Code Stream Overlay	
Network	Interface		10/100 M Ethernet (RJ-45)
	Protocol		TCP/IP, UDP, RTP, RTSP, RTCP, HTTP, DNS, DDNS, DHCP, FTP, NTP, PPPOE, SMTP, UPNP
	ONVIF		Onvif 2.4
	Access Control		Administer and Common User
	Web Browser		IE 6.0 and Above
	Max. User Number		≤10
Interface	CVBS/BNC		Support
	Audio I/O		Support
	BNC		Support
	RS485		Support
	Mobile Surveillance		Support
General	IP Grade		IP 66
	Working Conditions		-20°C ~ +60°C; 10% to 90%, (Non-Condensing)
	Power Supply		DC12V/AC24V/POE
	Dimension(mm)		345(L) x100(W)x100(H)mm
	Weight(with package)		990g

**(2) 2.0 MP HD Network Starlight High Speed Dome Camera: 100 (One hundred) nos.**

**SPECIFICATIONS**

Compression	Video Standard	H.265/H.264 Main Profile/Motion JPEG	
	Type	2.0MP HD Network Starlight High Speed Camera	
Camera	Image Sensor	1/2.8"Progressive ScanCMOS	
	Resolution	Main Stream	1920*1080, 1-25(30)FPS
		Sub Stream	1280*720, 1-25(30)FPS
		Sub Stream	704*576, 1-25(30)FPS ; 640*480, 1-25(30)FPS
	Focus Length	<b>32X</b> (f4.5–144mm, Aperture: F1.6-4.8)	
	View Angle	Horizontal: 65.1°(wide)- 2.34°(tele)	
	Min. illumination	Colour 0.005Lux@F1.2, B/W 0Lux(IR ON)	
	Electronic Shutter	1/25 ~ 1/10000	
	Day/Night Mode	ICR Cut Filter, Manual, Auto, Timing, Alarm Switch	
	Focus/Zoom	Auto Focus(AF), Zoom Trigger AF(ZF), Manual Focus(MF)	
	WDR / DEFOG	120dB / Defog Optional	
	Exposure Control	Auto, Manual, Priority(Shutter or Max AGC), Brightness, etc	
	Exposure Area	Auto, Center Exposure, Global Exposure, Manual Selection	
	BLC	ON/OFF	
	HLC	Support Electronic Shutter, Gain Control and Hight Light Control	
	DNR	3D-MCTF DNR	
S/N Ratio	>52dB		
	Audio Standard	G.711/G.726	
	Image Setting	①Adjustable Image Format, Standard, Code Rate, Brightness, Contrast, Saturation, Sharpness, White Balance, Image Flipand Mirror(Passage Mode)	
		②Support Rear-End Enhance Anti-Fog Function	
		③Support 4A Control, Auto White Balance, Auto Gain Control, Auto Exposure, Auto Iris Correction;	
		④Support Privacy Mask, No Hangover 2DNR, Over 3 Different Contents in Any Area, Including Date, Time, Week, Channel Name and Remark, etc OSD Information Superimposed	
		⑤Image Rotation: Normal 90°/ 180°/ 270°	
		⑥Auto, Manual or Predestinate Day/Night Mode, Coordinates Image Mode	
		⑦WDR	
	Interface Protocol	RJ45 10Base-T/100Base-TX	
	Intelligent Alarm	Motion Detection, Shelter Alarm, Network Cable Disconnection, IP Address Conflict, Storage Full, Storage Error, External Trigger Alarm	
	Protocols	IPv4, TCP/IP, UDP, HTTP, DHCP, RTP/RTCP/RTSP, FTP, DHCP, DDNS, NTP, IGMP, ICMP	
	Compatible	ONVIF2.4	
Network	General	①Support Password Protection, Multi-User Access Control;	
		②Support Unicast and Multicast;	
		③Support IP Address Filtration Access Control;	
		④Support UPnP Protocol, Search and Manage IP Camera in Batch Easily;	
		⑤Support Continue Transmit once Network Disconnection, Redundant Transmit Function;	
		⑥Support Auto Timing and Remote Upgrade	

PTZ	Rotation Range	Pan: 0~360°Endless, Tilt: -10~90°Automatic
	Rotation Speed	□ Horizontal Key Control: 0.01°~360°/s, Speed can be Set, Horizontal Preset Position Speed 360°/s;
		□ Vertical Key Control: 0.01°~120°/s, Speed can be Set, Vertical Preset Position Speed: 120°/s
	Preset & Guard	256, 1
	Auto Cruise/Scan	8 Lines(Each Line 32 Presets)
	Pattern Record	4Lines(Each Line Max 500 Instructions)
	Light Distance	IR 150M
	Power-Off Memory	Auto Recover to Previous PTZ and Lens State After Re-power
	Light Control	IR Light(White Light) and Magnification Distance Matching Algorithm, Adjust IR Light(White Light) Brightness According to Magnification and Distance, to Make the Image to Achieve the Best Status
	Audio Interface	3.5mm Mic / Line Input, 3.5mm Line Output (Optional)
	Alarm I/O	1CH Alarm Input, 1CH Alarm Output (Optional)
	Video Output	RJ45(10/100MAdaptive)+CVBS(Optional)
	Working Conditions	-30 °C~+55°C,Relative Humidity ≤90%; Auto Constant Temperature
	Power Supply	DC12V/5A(AC24V Optional)
	Protection Level	IP66,All-Weather Protective Mask, Built-in Fans & Automatic Thermostat All-Weather Surveillance, 4000V Lighting & Anti-Surge Protection
Dimension(mm)	Φ228x341mm(Wall-Mount)      Φ228x510mm(Ceiling-Mount)	
Weight	4.5kg(With Bracket); 5.8kg(Overall Unit)	

### (3) Embedded HD 9 Channel Network Video Recorder: 50 (Fifty)

#### SPECIFICATIONS

O.S		Embedded Linux Operating System;	
Image Coding Control		Image Coding Quality can be adjusted, VBR /CBR Optional	
Dual Stream		Each Channel can be setted;	
Video Standard		H.265/H.264	
Image Quality		5MP(2592×1944)/ 3MP(2048×1536)/ 1080P(1920×1080)/ 960P(1280×960)/ 720P(1280×720)	
Image Dynamic Detection		Each Screen can detect Multiple Detection Regions, 6 levels Sensitivity can be set;	
Playback		9CH 960P Sync.Playback, 4CH 1080P/3MP Sync.Playback, 4CH 5MP Playback;	
Privacy Mask		Each Channel support 4 Privacy Mask Areas (IPC support needed);	
Recording Mode		Support Manual, Auto, Dynamic Detection, Alarm Trigger Recording Mode (Part need IPC support);	
Backup Mode		Support HDD, U Disk, USB Mobile HDD, USB Record, Network Storage and Backup(Part need IPC support);	
Operating Mode		Mouse;	
Local Login		User Name / Password;	
Recording Storage		Local HDD, Network;	
External Interface	Network Video Input (Mode)	① 9×[1280*960]+Sub[960*576]+4Ref.+9Play	
		② 9×[2048*1536]+Sub[960*576]+4Ref.+4Play	
		③ 9×[2592*1944]+Sub[960*576]+4Ref.+1Play	
		④ 9×[2592*1944]+Sub[1280*960]+4Ref.+1Play	
	Audio Input	1:1 Network Audio Input Upon Network Video Channel No.	
	Video Output	1CH VGA + 1CH HDMI;	
	Audio Output	1CH RCA;	
	Network Interface	1*RJ45;	
	RS485 Interface	Full Duplex Standard RS485 Interface;	
	USB Interface	2*USB 2.0 Interface;	
	Alarm Input	2CH (Optional);	
Alarm Output	1CH (Optional);		
HDD	HDD Interface	1*HDD Interface;	
	Max. Capacity	Each SATA Interface support Max. 6TB HDD;	
Network	Interface	8*10/100Mbps Ethernet Interface;	
Input Power		52W	120W
Standard		IEEE802.3af	
Mobile Surveillance		Support	
Power Supply		DC48V/2.5A	
Comsumption		≤25W (without HDD);	
Working Temperature		-10°C ~ +55°C	
Working Humidity		10%-90%	
Dimension		Device: 260×220×43mm, with Package: 355×255×88.5mm;	
Weight(without HDD)		N.W: 1.5kg, G.W: 2.4kg;	
Carton		10 units/Carton, Dimension: 525mm×455mm×365mm, Weight: 25kg;	
Installation		Desktop Installation; Mobile Installation	

- (4) Surveillance HDD 2 TB 7200 rpm : 50 (Fifty)**
- (5) CAT6 Cable (make D-Link/Digilink) : 5000 Mtr**
- (6) CSTA9 Micrometer Single channel OFC : 5000 Mtr**
- (7) HD IPS 22 Inch LED Monitor (make LG) : 50 (Fifty)**
- (8) 8 Port Switch 10/100 Mbps (make D-Link) : 40 (Forty)**
- (9) 16 Port Switch 10/100/1000 Gbps (make D-Link) : 10 (Ten)**
- (10) RJ 45 Connector Make: D-Link : 2000 Nos.**
- (11) Flexible Wire (Power) : 1000 metre**
- (12) Spike Guard, 4 way Socket with Switch : 100 Nos.**  
**Make: Anchor**
- (13) Ethernet Gigabits Media converter : 50 Nos**  
**(Optical fibre Network and vice-versa)**  
**Make : i-ball**