

**Adigrat University CCTV National Bid 2009 E.C**

Rno	ITEM	Minimum Requirement		Unit	Qty	Unit price	Total Price	Remark
1	<b>Network Video Recorder</b>	<b>General</b>	<b>256 CH 1080P NVR</b>		pcs	2		The two NVR should work in 1+1 redundancy mode. Provide with central management system that handle real time viewing, storage management, search & playback record, remote control, user management, equipment management, network configuration,events,and failover.
Support standard ONVIF2.4.2 protocol.								
Support P2P mobile monitoring.								
Support double streams record and preview								
Support IE, Chrome, Firefox, Safari browser								
3 USB interfaces, support backup,update								
User-friendly UI, easy to operation								
Support 1080P VGA/HDMI video output.								
Support multiple network protocols, perfect SDK								
Perfect protection circuit, ensure NVR will never crash.								
<b>System</b>		CPU	Hi3535					
		OS	Embedded Linux					
		System Resources	Sync multi-channel real-time recording, multi-channel real-time playback, multiple users remote operation					
<b>UI</b>		Operation UI	16-bit true color graphical menu operation interface, support mouse operation					
		Channel Display	1/4/9/16/32/49/79ch screen					
<b>Video</b>		Video Standard	PAL/NTSC					
		Encode Compression	H.264					
		Output Resolution	1024*768/1280*720/1280*1024/1920*1080					
		Playback Resolution	1080P/1024P/960P/720P/VGA/D1/QVGA/CIF/QCIF					
		Video Input	8CH*5M/16CH*3M/24/32/64/256CH*1080P					
		Motion Detection	Support					
<b>Record</b>		Record Type	Time record/Motion record/Alarm record					
		Record Inquiry	By time/date/event/channel					
	Local Playback	8CH 960P (1280*960)						
	Record On	Local HDD, USB disk						
	Backup	Network/USB disk						
<b>Interface</b>	Video Output	1 VGA,1 HDMI						
	RS485	1						
	Network	1*RJ45 100/1000M adaptable Ethernet interface						
	USB	2						
	HDD	4 SATA (Maximum support 6TB HDD)						
	Power	DC12V 3A						
<b>Others</b>	Language	Chinese,English,Russian,Portuguese,Spanish,French,German,Italian,Farsi,Japaness,Korea,Turkish,etc						
	Cabinet	19 inch standard cabinet						

2	<b>Outdoor Bullet Camera</b>	<b>General</b>	<table border="1"> <tr> <td colspan="2"><b>Outdoor Bullet Camera</b></td> </tr> <tr> <td>Max. resolution up to</td> <td>2.0M(1920x1080)</td> </tr> <tr> <td colspan="2">Adopt advanced video compression technology, High compression rate</td> </tr> <tr> <td colspan="2">Progressive scan CMOS,no saw tooth to catch sport picture</td> </tr> <tr> <td colspan="2">Mechanical ICR,Real Day&amp;Night Surveillance</td> </tr> <tr> <td colspan="2">Support double stream,support Mobile surveillance</td> </tr> <tr> <td colspan="2">Support Auto electronic shutter to adapt different environment</td> </tr> <tr> <td colspan="2">Waterproof IP66</td> </tr> </table>	<b>Outdoor Bullet Camera</b>		Max. resolution up to	2.0M(1920x1080)	Adopt advanced video compression technology, High compression rate		Progressive scan CMOS,no saw tooth to catch sport picture		Mechanical ICR,Real Day&Night Surveillance		Support double stream,support Mobile surveillance		Support Auto electronic shutter to adapt different environment		Waterproof IP66		pcs	60														
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3	<b>Outdoor PTZ Dome Camera</b>	General	<b>7Inch IP-PTZ Dome</b> Max. resolution up to 2.0M(1920x1080) Adopt advanced video compression 30X Optical Zoom Lens,IR Distance 300meters Mechanical ICR,Real Day&Night Surveillance Support double stream,support Mobile Support Auto electronic shutter to adapt different Waterproof IP66	pcs	12			
		Video	Sensor 1/2.8" CMOS Chipset HI3516C Effective Pixel 2.0MP/1080P Resolution 1920x1080 Min. Illumination Color 0.1Lux@F1.2; B/W 0.01Lux@F1.2 ICR Yes(Day/Night) Onvif Yes					
		Lens	Iris F1.6 to F4.5 Lens Type 4.7-140mm Motorized Lens Zoom 30X Optical Zoom Lens Mount CS Lens Resolution 2.0MP					
		IR LED	Origin Germany Quantity 1pcs Laser Array IR LED IR Distance 300m					
		Internet	Compression standard H.264 Compression rate 32Kbps~8Mbps PTZ Yes Pan speed 0.02~300°/S Tilt speed 0.02~160°/S Preset 256 Frame 25fps@PAL; 30fps@NTSC; Main Stream Max.1920*1080 Sub Stream 704*576(D1) Picture setting lightness、Contrast、saturation、sharpness adjustable Alarm Motion detection ,Masking Alarm Protocol TCP/IP,HTTP,DHCP,DNS,DDNS,RTP,RTSP,PPPOE,SMTP,NTP,UPNP,SNMP,HTTPS,FTP Main function Anti-flicker,double stream, Mirror, P.W protection,Privacy masking Interface 1X RJ45 10M/100M auto switchable network interface Language Chinese/English					
		Others	Lighting Protection Yes(TVS 6000V ) Power Supply DC12V±10% Power 25W Max. (IR LED ON) Humidity ≤95RH Temperature -30℃~60℃ Case Material Metal Dimension 7inch					

4	<b>Indoor Dome Camera</b>	<table border="1"> <tr> <td data-bbox="280 90 451 317"><b>General</b></td> <td colspan="2" data-bbox="451 90 797 317"> <b>Indoor Dome Camera IP Camera</b>  Max. resolution up to 2.0M(1920x1080)  Adopt advanced video compression  Progressive scan CMOS,no saw tooth to catch  Mechanical ICR,Real Day&amp;Night Surveillance  Support double stream,support Mobile surveillance  Support Auto electronic shutter to adapt different  Plastic Case for indoor use,high steady reliability </td> </tr> <tr> <td data-bbox="280 317 451 468"><b>Video</b></td> <td data-bbox="451 317 574 468">Sensor</td> <td data-bbox="574 317 797 468">1/2.8" CMOS</td> </tr> <tr> <td></td> <td data-bbox="451 344 574 365">Chipset</td> <td data-bbox="574 344 797 365">HI3516C+SONY322</td> </tr> <tr> <td></td> <td data-bbox="451 365 574 386">Effective Pixel</td> <td data-bbox="574 365 797 386">2.0MP</td> </tr> <tr> <td></td> <td data-bbox="451 386 574 407">Resolution</td> <td data-bbox="574 386 797 407">1920x1080</td> </tr> <tr> <td></td> <td data-bbox="451 407 574 428">ICR</td> <td data-bbox="574 407 797 428">Yes(Day/Night)</td> </tr> <tr> <td></td> <td data-bbox="451 428 574 468">Onvif</td> <td data-bbox="574 428 797 468">Yes</td> </tr> <tr> <td data-bbox="280 468 451 590"><b>Lens</b></td> <td data-bbox="451 468 574 489">Iris</td> <td data-bbox="574 468 797 489">Fixed Iris</td> </tr> <tr> <td></td> <td data-bbox="451 489 574 529">Lens Type</td> <td data-bbox="574 489 797 529">3.6mm/2.8-12mm Varifocal Lens Optional</td> </tr> <tr> <td></td> <td data-bbox="451 529 574 550">Lens Mount</td> <td data-bbox="574 529 797 550">M12/M14</td> </tr> <tr> <td></td> <td data-bbox="451 550 574 590">Lens Resolution</td> <td data-bbox="574 550 797 590">2.0MP</td> </tr> <tr> <td data-bbox="280 590 451 663"><b>IR LED</b></td> <td data-bbox="451 590 574 611">Origin</td> <td data-bbox="574 590 797 611">Germany</td> </tr> <tr> <td></td> <td data-bbox="451 611 574 632">Quantity</td> <td data-bbox="574 611 797 632">22pcs <math>\varnothing</math> 5mm IR LED</td> </tr> <tr> <td></td> <td data-bbox="451 632 574 663">IR Distance</td> <td data-bbox="574 632 797 663">30m</td> </tr> <tr> <td data-bbox="280 663 451 1262"><b>Internet</b></td> <td data-bbox="451 663 574 705">Compression standard</td> <td data-bbox="574 663 797 705">H.264</td> </tr> <tr> <td></td> <td data-bbox="451 705 574 747">Compression rate</td> <td data-bbox="574 705 797 747">32Kbps~8Mbps</td> </tr> <tr> <td></td> <td data-bbox="451 747 574 810">Audio compression standard</td> <td data-bbox="574 747 797 810">G.711/G.726</td> </tr> <tr> <td></td> <td data-bbox="451 810 574 873">Audio compression rate</td> <td data-bbox="574 810 797 873">64Kbps(G.711)/16Kbps(G.726)</td> </tr> <tr> <td></td> <td data-bbox="451 873 574 894">Frame</td> <td data-bbox="574 873 797 894">25fps (1920x1080)</td> </tr> <tr> <td></td> <td data-bbox="451 894 574 957">Picture setting</td> <td data-bbox="574 894 797 957">lightness, Contrast, saturation, sharpness adjustable</td> </tr> <tr> <td></td> <td data-bbox="451 957 574 999">Alarm</td> <td data-bbox="574 957 797 999">Motion detection, Masking Alarm</td> </tr> <tr> <td></td> <td data-bbox="451 999 574 1020">Audio</td> <td data-bbox="574 999 797 1020">External Audio</td> </tr> <tr> <td></td> <td data-bbox="451 1020 574 1041">POE</td> <td data-bbox="574 1020 797 1041">External POE</td> </tr> <tr> <td></td> <td data-bbox="451 1041 574 1125">Protocol</td> <td data-bbox="574 1041 797 1125">TCP/IP,HTTP,DHCP,DNS,DDNS,RTP,RTSP,PPPOE,SMTP,NTP,UPNP,SNMP,HTTPS,FTP</td> </tr> <tr> <td></td> <td data-bbox="451 1125 574 1188">Main function</td> <td data-bbox="574 1125 797 1188">Anti-flicker,double stream,Mirror,P.W protection,Privacy masking</td> </tr> <tr> <td></td> <td data-bbox="451 1188 574 1251">Interface</td> <td data-bbox="574 1188 797 1251">1X RJ45 10M/100M auto switchable network interface</td> </tr> <tr> <td></td> <td data-bbox="451 1251 574 1262">Language</td> <td data-bbox="574 1251 797 1262">Chinese/English</td> </tr> <tr> <td data-bbox="280 1262 451 1402"><b>Others</b></td> <td data-bbox="451 1262 574 1283">Power Supply</td> <td data-bbox="574 1262 797 1283">DC12V<math>\pm</math>10%</td> </tr> <tr> <td></td> <td data-bbox="451 1283 574 1304">Power</td> <td data-bbox="574 1283 797 1304">6W Max. 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		Lens	Iris	Fixed Iris						
			Lens Type	2.8-12mm Varifocal Lens						
			Lens Mount	M14						
			Lens Resolution	2.0MP						
		IR LED	Origin	Germany						
			Quantity	42pcs $\phi$ 5mm IR LED						
			IR Distance	50m						
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Others	Power Supply		DC12V $\pm$ 10%							
	Power		7W Max. (IR LED ON)							
	Humidity	$\leq$ 95RH								
	Temperature	-30 $^{\circ}$ C~60 $^{\circ}$ C								
	Case Matrial	Metal								
	Dimension	242(L)*78( $\phi$ )/mm								

6	<b>Accessories</b>	All accessories such as electrical equipments, fiber related componenets, UTP cable and related units, network equipment, installations and other relevant materials for successsful deployment of the solution should be considered. Bidders should submit appropriate display units as per the site survey.						
7	<b>Installation, Commissioning and testing</b>	Successful Bidders are required to install, commission, and test all surveillance facilities after delivery. Successful Bidders are required to provide fiber and make necessary installation (if required). Any form of deformations or changes to the building or other facilities during installation, commissioning, and testing must be patched or repaired or restored by the supplier/winner.						
8	<b>Relevant Trainings &amp; Visits</b>	On-Site Trainings	Successful Bidders are required to arrange germane onsite trainings for the AdU-ICT staffs covering all concomitant expenses during & after installation & commissioning.	num	5			
		On-factory Trainings & Visits	Successful Bidders are required to arrange visits to factories and on-factory trainings (on Facilities installation, configuration, & management) & certifications prior to the start of installation works covering all concomitant expenses (per-dime + certification fees + Air transport fares).	num	2			
<b>Total Price</b>								