

TECHNICAL SPECIFICATION FOR THE PUBLIC BIDDING OF:

UPLB-S-067-9-17, SUPPLY, DELIVERY, INSTALLATION, LABOR, CONFIGURATION AND TESTING OF BRAND NEW AND BRANDED CCTV SURVEILLANCE CAMERA SYSTEM

DATE OF PRE-BID CONFERENCE:

Wednesday, 30 August 2017 3:15 PM

DEADLINE OF SUBMISSION OF BIDS:

Wednesday, 13 September 2017 UNTIL 1:45 PM

OPENING OF BIDS:

Will follow shortly after the deadline of the submission of bids

LOT #	ITEM #	REQUIRED SECIFICATIONS	OFFERED SPECIFICATIONS (write down detailed offered specifications)	REFERENCES (include supporting documents)	COMMENTS/ REMARKS (clarify inclusion/ exclusion)	EVALUATION
1	1	Executive Offices 3rd Floor Main Library IP CCTV Surveillance Camera System Requirements				
		<u>IP CCTV Equipments</u>				
		<u>UTP Cable 4-pair CAT6 (6 rolls)</u>				
		<u>Wire Internal Characteristics</u>				
		Twisted pair color code: Pair 1> blue, white / blue				
		Pair 2> orange, white / orange				
		Pair 3> green, white / green				
		Pair 4> brown, white / brown				
		Conductor: 23AWG (1x0.55±0.01mm) solid anneal copper wire				
		Insulation material: HDPE				
		Diameter of dielectric core: 0.973±0.05mm				
		Insulation thickness: min at any point: 0.186mm				
		Number of twist pairs: 4 pairs				
		Assembly: 4 pairs of dielectric core shall be stranded in circular form.				
		Material of jacket: LSZH				
		Thickness of jacket: AVG 0.6mm				
		Nominal O.D.: 6.1±0.3mm				
		<u>Wire External Characteristics</u>				
		Insulation elongation: min 300%				
		Insulation tensile strength: min 2400psi				
		Jacket elongation: min 100%				
		Jacket tensile strength: min 1300psi				
		<u>Electrical Characteristics</u>				
		Spark test: 2.5KV				
		Impedance: 100 Ohm 15%				
		D.C.R (Max.) : 9.38 Ohm/100m at 20degC				
		D.C.R. Unbalance (Max.) : 5% MAX./100m				
		Mutual Capacitance: 5.6 nF/100m Capacitance, unbalance (Max.): 330 pF/100m				
		DC Insulation Resistance (Min.): 1500M ohm/km				
		Dielectric Strength: 2500 Vdc / 3 seconds				
		<u>Patch Cord, 2 meter (16 pcs)</u>				
		Molded boots prevent pin from bending and cables from kinking				
		24AWG stranded wire provides maximum flexibility				
		Fully tested to meet ANSI/TIA-568-C.2 category 6 requirement				
		The various colors are available to meet TIA/EIA-606 standards				

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		The mechanical characteristics and transmission performance meet 16Mbps token Ring,10Base-T,100Base-T				
		155Mbps,622Mbps ATM,Gigabit-Ethernet and 1.2Gbps ATM requirements.				
		Physical Characteristics				
		Twisted pair color code:				
		Pair 1> blue, white/blue ring.				
		Pair 2> orange, white/orange ring				
		Pair 3> green, white/green ring				
		Pair 4> brown, white/brown ring				
		Conductor: 24AWG (7x0.195mm) stranded anneal copper wire				
		Insulation material: HDPE				
		Diameter of dielectric core: 1.0±0.05mm				
		Insulation thickness: min at any point: 0.20mm				
		Number of twist pairs: 4 pairs				
		<ul style="list-style-type: none"> • Assembly: 4 pairs of dielectric core shall be stranded in circular form • Material of jacket: PVC/LSZH • Thickness of jacket: AVG 0.66~0.70mm • Nominal O.D: 5.6±0.2mm • Jacket color: red,orange,yellow,green,blue,gre, etc 				
		RJ45 plug:Housing>polycarbonate				
		Contact>copper alloy 50u" gold plated over nickel				
		Strength>20lbs. min				
		Durability>200 cycles min.				
		Insulation resistance: 500 megaohms min. Molded boots prevent pin from bending and cables from kink.				
		Wiring schemes: T568B				
		Patch Cord, 3 meter (16 pcs)				
		Molded boots prevent pin from bending and cables from kinking				
		24AWG stranded wire provides maximum flexibility				
		Fully tested to meet ANSI/TIA-568-C.2 category 6 requirement				
		The various colors are available to meet TIA/EIA-606 standards				
		The mechanical characteristics and transmission performance meet 16Mbps token Ring,10Base-T,100Base-T				
		155Mbps,622Mbps ATM,Gigabit-Ethernet and 1.2Gbps ATM requirements.				
		Physical Characteristics				
		Twisted pair color code:				
		Pair 1> blue, white/blue ring				
		Pair 2> orange, white/orange ring				

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		Pair 3> green, white/green ring				
		Pair 4> brown, white/brown ring				
		Conductor: 24AWG (7x0.195mm) stranded anneal copper wire				
		Insulation material: HDPE				
		Diameter of dielectric core: 1.0±0.05mm				
		Insulation thickness: min at any point: 0.20mm				
		Number of twist pairs: 4 pairs				
		• Assembly: 4 pairs of dielectric core shall be stranded in circular form				
		• Material of jacket: PVC/LSZH				
		• Thickness of jacket: AVG 0.66~0.70mm				
		• Nominal O.D: 5.6±0.2mm				
		• Jacket color: red,orange,yellow,green,blue,gre, etc				
		RJ45 plug:Housing>polycarbonate				
		Contact>copper alloy 50u" gold plated over nickel				
		Strength>20lbs. min				
		Durability>200 cycles min.				
		Insulation resistance: 500 megaohms min. Molded boots prevent pin from bending and cables from kink.				
		Wiring schemes: T568B				
		<u>Information Outlet, Cat6 (16 pcs)</u>				
		<u>Faceplate, Simplex, Cat6 (16 pcs)</u>				
		<u>24-port Patch Panel (1 pc)</u>				
		Environmental Conditions				
		Temperature range:				
		Storage: -40 to +700C				
		Operational: -10 to +600C				
		Relative humidity (operational): max. non-condensing 93%				
		Electrical Characteristics				
		Insulation resistance between any two conductors: 500 MegaOhms min.				
		Dielectric with standing voltage: 1000V, RMS, 60HZ, 1 MIN.				
		Contact resistance: 20 Milliohms max.				
		Current rating: 1.5 AMPS at 200C				
		Physical Characteristics				
		Housing: High-impact, flame-retardant plastic, UL94V-0 rated, Spring wire / contact blades				

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		Contact material: Phosphor bronze alloy				
		Plate: SPCC-SD 16G				
		<i>Mechanical Characteristics</i>				
		Total mating force: 800 GRAMS for a 8 wire leads minimum.				
		Retention: 30lbs min between the jack and plug.				
		Insertion/Extraction life: 750 cycles minimum.				
		Number of IDC terminations: 200 minimum.				
		<u>Cable Manager 1RU (1 pc)</u>				
		<u>Data cabinet 3ft wall mounted closed type 600mm x 600mm (1 unit)</u>				
		<u>4MP full HD Network fish eye cctv (10 units)</u>				
		Image Sensor 1/3" 4Megapixel progressive scan CMOS				
		Minimum Illumination 0.01lux/F2.0(color) ,0.001Lux@F2.0(B/W)				
		Shutter Speed Auto/Manual 1/3(4)~1/100000				
		AGC control Auto/Manual White Balance Auto/Manual Lens 1.18mm				
		S/N Ratio More than 50 dB				
		Video Compression H.264/MJPEG				
		<i>Video Streaming:</i>				
		Main Stream:4M(1~15fps)/ 3M (1 ~ 25/30fps),				
		Extra Stream: D1/CIF(1 ~ 25fps)				
		Resolution: 4M(2592x1520)/ 3M(2048x 1520)/ UXGA(1600x 1200)/ 1.3M(1280x 960)/ 720P(1280x 720)/ D1(704x 576/704x 480)/ CIF(352x 288/352x 240)				
		ICR Auto(electronic)/Color/B/W				
		Smart Phone iPhone, iPad, Android Phone				
		Audio Input1 Ch.				
		Audio Output1 Ch.				
		Audio CompressionG.711a/G.711u/PCM				
		Alarm IN1 Ch				
		Alarm Out1 Ch				
		Interface1 RJ45				
		Protocol: HTTP,TCP,ARP,RTSP,RTP,UDP,RTCP,SMTP,FTP,DHCP,DNS, DDNS,PPPOE,IPv4/v6,SNMP,QoS,UPnP,NTP, Onvif				
		Profile S				
		Micro SD Micro SD, Max 64GB				
		Operating Temperature: -30°C~+60°C, Less than 95% RH				

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		Power Source: DC12V, PoE(802.3af)				
		Power Consumption: Max 6W				
		Weatherproof Standard: IK10				
		Dimension: Ø110mm×54mm				
		Weight: 0.25kg				
		With at least one (1) year warranty				
		<u>2MP full HD IR Vandal dome cctv (6 units)</u>				
		Image Sensor1/2.7" 2MP PS CMOS Image Sensor				
		Minimum Illumination0.1Lux/F1.4(Color), 0Lux/F1.4(IR on) Effective Pixels1920(H)x1080(V)				
		Shutter Speed Auto/Manual, 1/3(4)~1/10000s				
		AGC control Auto/Manual				
		White Balance Auto/Manual				
		Back Light Comp. BLC/ HLC/ WDR				
		Lens 2.7 -12mm Motorized Lens				
		S/N Ratio More than 50dB				
		Video CompressionH.264/ H.264H/ H.264B/ MJPEG				
		<i>Video Streaming</i>				
		Main Stream:1080P (1 ~ 25/30fps),				
		Extra Stream: D1/CIF(1 ~ 25/30fps)				
		Resolution: 1080P(1920x1080)/ 1.3M(1280x960)/ 720P(1280x720)/ D1(704x576/704x480)/ CIF(352x288/352x240)				
		Privacy Masking Up to 4 areas				
		ICR Auto(ICR)/Color/B/W				
		Smart Phone iPhone, iPad, Android Phone				
		Bit Rate H.264: 40K ~ 8192Kbps				
		Audio Input1 channel In				
		Audio Output1 channel Out				
		Audio Compression: G.711a/ G.711u/ AAC Alarm IN1 channel In				
		Alarm Out1 channel Out				
		Protocol: Pv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1x, ONVIF, CGI, PSIA				
		User Account 20 Users				
		IRIR Range of 30 Mtr.				
		Micro SD Micro SD , Max 128GB				
		Operating Temperature: -30°C~+60°C , Less than 95%RH				
		Power Source: DC12V, PoE (802.3af)				
		Power Consumption<7.5W				
		Weatherproof Standard: IP67 & IK10				

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		Dimension: φ122mm × 89mm				
		Weight: 0.5kg				
		With at least one (1) year warranty				
		<u>32 channel NVR w/ 16 PoE port (1 unit)</u>				
		Processor Quad-core embedded processor				
		Operating System Embedded LINUX IP Camera Input32 channel				
		Two-way Talk1 channel Input, 1 channel Output, RCA				
		User Interface GUI				
		Video Output2 HDMI (1 HDMI up to 3840x2160, Different Source), 1 VGA				
		Compression H.265/H.264/MJPEG/MPEG4				
		Video Resolution3840× 2160, 1920× 1080, 1280× 1024, 1280× 720, 1024× 768				
		Video Recording Max 320Mbps				
		Video Display Split 1st screen: 1/4/8/9/16/25/36 , 2nd screen: 1/4/8/9/16				
		Motion Detection MD Zones: 396(22×18).				
		Video Loss Supports				
		Camera Blank Supports				
		Alarm Input16 Channel, Low Level Effective, Green Terminal Interface				
		Alarm Output6 Channel, NO/NC Programmable, Green Terminal Interface				
		Hard Disk8 SATA III Ports, up to 48TB, 1 eSATA port				
		Trigger Events Recording, PTZ, Tour, Alarm Out, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips				
		Recording Mode Manual, Schedule(Regular(Continuous), MD, Alarm), Stop				
		RAID Single, Raid 0/1/5/6/10				
		Search Mode Time /Date, Alarm, MD and Exact Search (accurate to second)				
		Playback Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom				
		Backup Mode USB Device/Network/Internal SATA burner/eSATA Device				
		Interface Ports2 HDMI, 1 VGA, 4 ports (2 Rear USB3.0,2 Front USB2.0), 1 eSATA port, 1 RS485, 1 RS232, 2 RJ45				
		Max User Account128 users				

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		Record Interval1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec				
		Smart Phone iPhone, iPad, Android Phone				
		Protocols HTTP, TCP/IP, IPv4/IPv6, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, IP Search, ONVIF 2.4, CGI Conformant				
		Ethernet2 RJ-45 port (10/100/1000Mbps), 2 Ethernet Ports Joint Working or 2 Independent 1000Mbps Ethernet Ports				
		Power Supply Single, AC 100~240V, 50/60 Hz				
		Power Consumption <16.7W (without HDD)				
		Working Temp -10 ~+55°C / 10~90%RH / 86~106kpa				
		Dimensions 440mm x 450.1mm x 95mm				
		Weight 6.55kg (without HDD)				
		With at least one (1) year warranty				
		System Features :				
		• Central monitoring software (CMS) should be capable of handling 1000 simultaneous connections and 64 live views				
		• CMS should be capable to integrate analog and IP camera in one system.				
		• CMS should be capable to EMAP minimum of 10 floor plan. Can assign cameras and view.				
		• CMS should be capable to playback up to 16 channel analog and IP camera. CMS should have save different channel viewing up to 64.				
		• DVR should have capability to do redundant ftp video back-up while doing Raid 1 recording				
		• System should be capable to be viewed over android, iphone, ipad built-in browser				
		<u>24 port PoE Switch (1 unit)</u>				
		Product Name 26-Port Gigabit PoE Switch with 24 PoE Ports and 2 Fiber Ports				
		Model ONV-POE33024PF-at				
		Connector Type: 24x 10/100/1000M copper cable RJ45 PoE ports(All ports support MDI/MDIX automatic adjustment); 2x 10/100 /1000Mbps SFP fiber uplink ports				
		Network Media: 10BASE-T: Cat3,4,5 UTP(≤100 meters) 100BASE-TX: Cat5 or more UTP(≤100 meters) 1000BASE-TX: Cat5 or more UTP(≤100 meters)				
		Bandwidth: 52Gbps				

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		Address Database Size: 8K				
		MTBF 100,000 hours				
		Network Latency: less than 20 microsecond				
		Forwarding Mode: Store and Forward				
		Buffer Memory: 4M				
		Network Protocols: IEEE 802.3; IEEE 802.3u; IEEE 802.3ab; IEEE 802.x Flow Control				
		LED Display: Power, Network, PoE working status				
		Power Input: AC100~240V 50/ 60Hz				
		PoE Ports 24 PoE ports				
		PoE Port Power: 30W				
		PoE Standard: IEEE802.3at				
		Power Consumption: 650W				
		Working Environment				
		Working temperature: -20°C~55°C;				
		Storage temperature: -20°~ 75°C;				
		Working Humidity: 10%~90%, no condensation;				
		Storage Humidity: 5% ~ 90%, no condensation;				
		Working Altitude: 3000 meters (10,000ft);				
		Storage Altitude: 3000 meters (10,000ft)				
		Certification: CE Mark ,commercial CE/LVD EN60950,RoHS				
		Radiation: CE mark, commercial FCC Part 15 Class B VCCI Class B EN 55022 (CISPR 22), Class B				
		Product Size: 440 x 275 x 44.5mm				
		With at least one (1) year warranty				
		<u>32" Monitor (1 unit)</u>				
		Screen Size: 32"				
		Resolution: 1,920 x 1,080 (FHD)				
		Brightness: 400				
		Orientation: Portrait & Landscape				
		Connectivity				
		Input: HDMI, DP, DVI-D, RGB, Audio, SD card				
		Output: DP, Audio				
		External Control: RS232C in/out, RJ in, IR Receiver, Pixel Sensor, USB 3.0, SD Card				
		Physical Specification				
		Bezel Width: 13 mm (T/R/L), 18 mm (B)				
		Monitor Dimension (W x H x D): 729.4 x 428.9 x 55.5 mm				
		Weight (Head): 5.2kg				

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		VESA™ Standard Mount Interface: 200 x 200 mm				
		Environment Conditions				
		Operation Temperature: 0°C to 40°C				
		Operation Humidity: 10 % to 80 % Power				
		Power Supply: 100-240V~, 50/60Hz				
		Power Type: Built-In Power				
		Power Switch: No				
		Power Consumption				
		Typ. 60 W				
		Smart Energy Saving: 45 W				
		Standard (Certification)				
		Safety: UL / cUL / CB / TUV / KC				
		EMC: FCC Class "A" / CE / KCC				
		ErP / Energy Star: N/A / Yes (Energy Star 6.0)				
		Audio Power: 20 W (10 W x 2) for Internal Speaker (6 ohm)				
		Media Player Compatibility				
		OPS type compatible: Yes				
		External Media player Attachable: No				
		Software Compatibility				
		SuperSign-w lite: Yes				
		SuperSign-c: Yes				
		With at least one (1) year warranty				
		<u>1.5KVA UPS (1 unit)</u>				
		Voltage Required: AC 230 V				
		Input Voltage Range: AC 115 - 280 V				
		Power Output Connectors Details 6 x power IEC 320 EN 60320 C13				
		Output Voltage: AC 200/208/220/230/240 V ± 3% - 50/60 Hz				
		Power Capacity: 1350 Watt / 1500 VA				
		Surge Suppression: yes				
		Power Provided: 1350 Watt				
		Frequency Required: 40 - 70 Hz				
		Circuit Protection: circuit breaker				
		Form Factor rack-mountable / external				
		UPS Technology on-line				
		Voltage Provided AC 200/208/220/230/240 V				
		Voltage Provided Margin ± 3%				
		Frequency Provided 50/60 Hz				
		UPS Output Waveform sinewave				
		Power Capacity (VA) 1500 VA				
		Input Connector Type power IEC 320 EN 60320 C14				

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		Input Connector Qty 1				
		Output Connector Qty 6				
		Power Factor Correction Power Factor Correction (PFC)				
		Power Factor (PF) 0.9				
		Power Device Features audible alarm, cooling fan, internal bypass				
		Miscellaneous				
		Rack Mounting Kit included				
		Features Audible alarm, internal bypass, cooling fan				
		Color Category black				
		Interface Provided				
		Type RS-232, management (USB)				
		Battery				
		Quantity 4				
		Technology Lead acid				
		Voltage Provided 12 V				
		Capacity 9 Ah				
		Run Time (Up To) 6 min at full load				
		Recharge Time 4 hour(s)				
		Load Type at full load				
		Networking				
		Remote Management Interface RS-232, USB				
		Environmental Standards				
		ENERGY STAR: Yes				
		Environmental Parameters				
		Min Operating Temperature 32 °F				
		Max Operating Temperature 104 °F				
		Humidity Range Operating 0 - 95% (non-condensing)				
		Cable Details				
		Type USB cable, power cable, serial cable				
		Form Factor external				
		Included Qty 1, 2				
		Length 4 ft, 6.6 ft, 8 ft				
		Power Output Connectors Details				
		Connector Type power IEC 320 EN 60320 C13				
		Connector Qty 6				
		Run Time Details				
		Run Time (Up To) 6 min				

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LOT #	ITEM #	REQUIRED SECIFICATIONS	OFFERED SPECIFICATIONS (write down detailed offered specifications)	REFERENCES (include supporting documents)	COMMENTS/ REMARKS (clarify inclusion/ exclusion)	EVALUATION
		Load Type full load				
		UPS				
		Batteries Qty 4				
		Battery Technology lead acid				
		Battery Capacity 9 Ah				
		Dimensions & Weight				
		Width 16.9 in				
		Depth 19.6 in				
		Height 3.3 in				
		Weight 51.15 lbs				
		With at least one (1) year warranty				
		<u>4TB HDD 3.5 inch Surveillance Hard Drive (7 units)</u>				
		Specifications: 4TB				
		Interface SATA 6Gb/s				
		Features and Performance				
		Drive Bays Supported: 8+				
		Cameras Supported: Up to 64				
		Max Sustained Transfer Rate: OD (MB/s) 190				
		Cache (MB): 64				
		Reliability/Data Integrity				
		Tarnish Resistant: Yes				
		Load/Unload Cycles: 300,000				
		Nonrecoverable Read Errors Rate: Max 1 per 10E14				
		Power-On Hours per year: 8760				
		Workload Rate Limit (WRL) 2 180				
		Mean Time Between Failures (MTBF) (hours): 1M				
		Warranty Limited (years): 3				
		Power Management				
		Startup Current, Typical (12V, A): 1.8				
		Average Operating Power (W): 5.5				
		Idle Average (W): 3.2				
		Standby Mode/Sleep Mode, Typical (W): 0.25/0.25				
		Voltage Tolerance (5V): ±5%				
		Voltage Tolerance (12V): ±10%				
		Environmental/Temperature				
		Operating (ambient, min °C) 0				
		Operating (drive case, max °C) 3 70				
		Nonoperating (ambient, min °C) -40				

TECHNICAL SPECIFICATION FOR THE PUBLIC BIDDING OF:

UPLB-S-067-9-17, SUPPLY, DELIVERY, INSTALLATION, LABOR, CONFIGURATION AND TESTING OF BRAND NEW AND BRANDED CCTV SURVEILLANCE CAMERA SYSTEM

DATE OF PRE-BID CONFERENCE:

Wednesday, 30 August 2017 3:15 PM

DEADLINE OF SUBMISSION OF BIDS:

Wednesday, 13 September 2017 UNTIL 1:45 PM

OPENING OF BIDS:

Will follow shortly after the deadline of the submission of bids

LOT #	ITEM #	REQUIRED SECIFICATIONS	OFFERED SPECIFICATIONS (write down detailed offered specifications)	REFERENCES (include supporting documents)	COMMENTS/ REMARKS (clarify inclusion/ exclusion)	EVALUATION
		<i>Physical</i>				
		Height (mm/in, max): 26.11/1.028				
		Width (mm/in, max): 101.85/4.01				
		Depth (mm/in, max): 146.99/5.787				
		Weight (g/lb, typical): 635/1.40				
		With at least three (3) year warranty				
		<u>Roughing-Ins (PVC Pipes) (1 lot)</u>				
		<u>OVERHEAD/SUBMITTALS (1 lot)</u>				
		<i>Includes Mobilization/Demobilization, Miscellaneous materials, Consumables, Hanger and Support, Provisional Allowance, Commissioning Cost and Configuration, 1 year workmanship warranty</i>				

Note: Please fill-up applicable columns.

Signature of Representative: _____

Name of Representative: _____

Position: _____

Company: _____

Address: _____

Telephone/ Fax: _____

Email: _____

End-user:

Signature over Printed Name