

TECHNICAL SPECIFICATION FOR:

UPLB-S-092-10-19, SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING AND TESTING OF BRANDED AND BRAND NEW IP CAMERA SURVEILLANCE SYSTEM

DATE OF PREBID CONFERENCE:

Wednesday, 2 October 2019 10:30 AM

DEADLINE FOR SUBMISSION OF BIDS:

Wednesday, 16 October, 2019 UNTIL 1:15 PM

OPENING OF BIDS:

Will follow shortly after the deadline of the submission of bids

LOT #	ITEM #	REQUIRED SPECIFICATIONS	OFFERED SPECIFICATIONS (write down detailed offered specifications)	REFERENCES (include supporting documents)	COMMENTS/ REMARKS (clarify inclusion/ exclusion)	EVALUATION
1	1	<b>SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING AND TESTING OF BRANDED AND BRAND NEW IP CAMERA SURVEILLANCE SYSTEM</b>				
		Including Labor, Tools and Materials for Equipment (including but not limited to UTP Cable, PVC Moulding, RJ 45 Connectors, Cable Tie, Cable Clamp and Electric Tape)				
		Installation, Termination, Testing and Commissioning, Wiring and Conduiting, Networking, Miscellaneous Costs,				
		End User's Training Preparation and Submission of As-Built Plan signed by Electronics and Communications Engineer.				
		<b>Equipment / Materials needed:</b>				
		<b>89 units - 8 MP Bullet IP CCTV Camera (Outdoor)</b>				
		Features:				
		• 8 megapixel high resolution				
		• Max. 3840 × 2160@20fps				
		• 2.8mm fixed lens				
		• 120dB Wide Dynamic Range				
		• 3D Digital Noise				
		<b>Reduction</b>				
		• IR range: 80m				
		• Support on-board storage, 128 GB				
		• IP67 Waterproof				

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		<b>Specification:</b>				
		• Image Sensor:   1/2.5" Progressive Scan CMOS				
		• Signal System:   PAL/NTSC				
		• Min. Illumination:   Color: 0.01 lux @(F1.2, AGC ON), 0 lux with IR				
		• Shutter time:   1/3 s to 1/100,000 s				
		• Slow shutter:   Support				
		• Lens:   2.8 mm, horizontal field of view: 102°				
		• Lens Mount:   M12				
		• Adjustment Range:   Pan: 0° to 360°, tilt: 0° to 100°, rotate: 0° to 360°				
		• Day& Night:   IR cut filter with auto switch				
		• Wide Dynamic Range:   120 dB				
		• Digital noise reduction:   3D DNR				
		<b>Compression Standard</b>				
		• Video Compression:   H.265+/H.265/H.264+/H.264/MJPEG				
		• Video bit rate:   32Kbps~16Mbps				
		• Triple Streams:   Yes				
		• Max. Image Resolution:   3840 × 2160				

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		<ul style="list-style-type: none"> <li>• Frame Rate:   50Hz: 20 fps (3840 × 2160), 25 fps (2560 × 1920, 2560 × 1440, 1920 × 1080, 1280 × 720)60Hz: 20 fps (3840 × 2160), 30 fps (2560 × 1920, 2560 × 1440, 1920 × 1080, 1280 × 720)</li> </ul>				
		<ul style="list-style-type: none"> <li>• Sub Stream:   50Hz: 25fps (640 × 360, 352 × 288)60Hz: 30fps (640 × 360, 352 × 240)</li> </ul>				
		<ul style="list-style-type: none"> <li>• Third Stream:   50Hz: 25fps (1280 × 720, 640 × 360, 352 × 288)60Hz: 30fps (1280 × 720, 640 × 360, 352 × 240)</li> </ul>				
		<ul style="list-style-type: none"> <li>• Image Enhancement:   BLC/3D DNR</li> </ul>				
		<ul style="list-style-type: none"> <li>• Image Settings:   Rotate Mode, Saturation, Brightness, Contrast, Sharpness adjustable by client software or web browser</li> </ul>				
		<ul style="list-style-type: none"> <li>• Target Cropping:   Support</li> </ul>				
		<ul style="list-style-type: none"> <li>• ROI:   Support 1 fixed region for each stream</li> </ul>				
		<ul style="list-style-type: none"> <li>• Day/Night Switch:   Auto/Schedule</li> </ul>				
		<b>Network</b>				
		<ul style="list-style-type: none"> <li>• Protocols:   TCP/IP, UDP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6</li> </ul>				
		<ul style="list-style-type: none"> <li>• General Function:   One-key reset, Anti-Flicker, heartbeat, mirror, password protection, privacy mask, Watermark, IP address filtering</li> </ul>				
		<ul style="list-style-type: none"> <li>• System Compatibility:   ONVIF (Profile S, Profile G), PSIA, CGI, ISAP</li> </ul>				
		<b>Interface</b>				
		<ul style="list-style-type: none"> <li>• Communication Interface:   1 RJ45 10M / 100M Ethernet interface</li> </ul>				
		<ul style="list-style-type: none"> <li>• On-board storage:   Built-in Micro SD/SDHC/SDXC slot, 128 GB Smart Feature-set</li> </ul>				
		<ul style="list-style-type: none"> <li>• Behavior Analysis:   Line crossing detection, Intrusion detection, Unattended baggage detection, Object</li> </ul>				

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		105 units - 4MP Dome IP CCTV Camera (Indoor)				
		• 4MP				
		• All-metal				
		• IP67, IK10 Vandal Resistance				
		• 2.8/4/6 mm fixed lens vary focal				
		• 120dB WDR				
		• Line crossing detection,				
		• Intrusion detection				
		• Face detection"				
		• "1/3"" Progressive Scan				
		• CMOS; H.265+/H.265/H.264+/H.264/MJPEG;				
		• Color: 0.01 lux @(F1.2, AGC ON),				
		• 0 lux with IR; 25fps/30fps(2560×1440, 1920×1080);				
		• 3 VCA functions; 3 streams; 3D DNR; ICR; EXIR 2.0,				
		• 30m; DC12V&PoE;				
		• Built-in micro SD/SDHC/SDXC				
		• Audio/Alarm IO				

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		<b>105 units - Mic, Audio Pick-up (Compatible with Dome IP CCTV Camera Indoor)</b>				
		<b>Features:</b>				
		<ul style="list-style-type: none"> <li>• Super high gain mini microphones capturing audio evidence</li> </ul>				
		<ul style="list-style-type: none"> <li>• Built in on board IC preamp, low noise, high gain and auto level adjustment</li> </ul>				
		<ul style="list-style-type: none"> <li>• RCA connector</li> </ul>				
		<ul style="list-style-type: none"> <li>• This microphone is compatible with devices that accept AV input, like TV, VCR, DVR</li> </ul>				
		<b>12 units - 32 Channels Network Video Recorder / POE</b>				
		<ul style="list-style-type: none"> <li>• 32-channel NVR</li> </ul>				
		<ul style="list-style-type: none"> <li>• 8 Megapixels</li> </ul>				
		<ul style="list-style-type: none"> <li>• 4 SATA interfaces</li> </ul>				
		<ul style="list-style-type: none"> <li>• Plug and Play</li> </ul>				
		<ul style="list-style-type: none"> <li>• Support dual-os</li> </ul>				
		<ul style="list-style-type: none"> <li>• Supported other brand of IP camera</li> </ul>				
		<ul style="list-style-type: none"> <li>• Support 1-ch HDMI, 1-ch VGA, HMDI at 4K</li> </ul>				
		<ul style="list-style-type: none"> <li>• Support various VCA detection alarm and VCA search</li> </ul>				
		<ul style="list-style-type: none"> <li>• Support H.265/H.264/MPEG4 video formats</li> </ul>				

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		<b>Specification:</b>				
		<i>Video/Audio Input</i>				
		• IP video input:   32-ch				
		• Two-way audio input:   1-ch, RCA (2.0 Vp-p, 1kΩ) Network				
		• Incoming bandwidth:   256Mbps				
		• Outgoing bandwidth:   160Mbps				
		<i>Video/Audio Output</i>				
		• HDMI Output:   1-ch, resolution: 4K(3840*2160)/60Hz, 4K(3840*2160)/30Hz, 1920*1080P/60Hz, 1600*1200/60Hz, 1280*1024/60Hz, 1280*720/60Hz, 1024*768/60Hz				
		• Recording Resolution:   8MP/6MP/5MP/4MP/3MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF				
		• Audio Output:   1-ch, RCA (Linear, 1kΩ)				
		• Synchronous Playback:   16-ch				
		• VGA Output:   1-ch, resolution: 1920*1080P/60Hz, 1280*1024/60Hz, 1280*720/60Hz, 1024*768/60Hz				
		<b>11 units - 32" HD Digital SMART TV</b>				
		<b>Specifications:</b>				
		• Resolution 1366*768				
		• Android 4.4 KitKat				
		• Support Mira cast Screen Mirroring				

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		• Resolution: 1366*768				
		• Brightness: 220-250cd/M2				
		• Aspect Ratio: 16:9				
		• Smart sys. Android 4.4				
		• CPU ARM A7				
		• Quad Core) Max 1.0GHz				
		• GPU Mali: 450 MP2				
		• DDR3: 512MB				
		• Flash: 4GB				
		• Wifi				
		• Color System ATV: PAL/SECAM				
		• DTV : MPEG-2 MP@ML, MPEG-2 MP@HL, H.264				
		• HDTV compatible 480P/I,576P/I,				
		• 720P,1080P/I				
		• Preset Programs: 99/1200				
		• PC Audio: 1				
		• HDMI: 3				

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		<b>1 unit - 43" HD Digital SMART TV</b>				
		• Resolution 1920 * 1080				
		• Android 4.4 KitKat				
		• Support Miracast Screen Mirroring				
		• Dolby Virtual Speaker support				
		• Audio Return Channel (ARC) support				
		• Watch movies & Play video games				
		• Access Facebook/Twitter & other networking sites				
		• USB Support: Audio, Image and Photo - Music, Photo and Video				
		• HDMI Input				
		• Wifi				
		<b>30 units - 24 Port POE Ethernet Switch</b>				
		• Internal Power Supply				
		• AC 100V-240V				
		• 400W, Max PoE Output is 370 W				
		• 1-24 port: 10/100Mbps POE Network port, UPLINK Port: 10/100/1000 Mbps network ports, SFP: SFP				
		Optical Fiber Module Port, 1000 Mbps				
		• Transmission Distance: 100 meters				



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		<ul style="list-style-type: none"> <li>PoE Protocol: IEEE802.3 af, IEEE802.3 at</li> </ul>				
		<ul style="list-style-type: none"> <li>PoE Power Supply: End-Span</li> </ul>				
		<ul style="list-style-type: none"> <li>PoE Power Consumption: every port &lt;30W, unit &lt;370W</li> </ul>				
		<ul style="list-style-type: none"> <li>Network Standard: IEEE802.3 10 BASE-T, IEEE802.3u 100 BASE-TX, IEEE802.3ab 1000BASE-T, IEEE802.3z 1000BASE-SX/LX</li> </ul>				
		<ul style="list-style-type: none"> <li>Package Data Cache: 9.6 Mbps</li> </ul>				
		<ul style="list-style-type: none"> <li>Switch Capacity: 8.8G</li> </ul>				
		<b>12 units – Uninterrupted Power Supply</b>				
		<ul style="list-style-type: none"> <li>Capacity: VA 1050VA</li> </ul>				
		<ul style="list-style-type: none"> <li>I/P Voltage Range: 155 ~ 270 V</li> </ul>				
		<ul style="list-style-type: none"> <li>Frequency Output: 50Hz +/-10%</li> </ul>				
		<ul style="list-style-type: none"> <li>AVR Voltage Range: 200 ~ 255 V</li> </ul>				
		<ul style="list-style-type: none"> <li>Frequency Regulation : 50Hz +/-5%</li> </ul>				
		<ul style="list-style-type: none"> <li>Power Factor: 0.6 Typical</li> </ul>				
		<ul style="list-style-type: none"> <li>Output Voltage(Battery Mode): 230 +/-8%</li> </ul>				
		<ul style="list-style-type: none"> <li>Frequency (Battery Mode): 50Hz+/-5%</li> </ul>				

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		<b>26 units - 6 TB Hard Drive (Design for CCTV)</b>				
		<b>Specification:</b>				
		• 6TB Storage Capacity				
		• 3.5" Form Factor				
		• SATA III 6 Gb/s Interface				
		• 128MB Cache				
		• 5400 rpm				
		• 178 MB/s Sustained Transfer Rate				
		• 300,000 Load/Unload Cycles				
		• All Frame Technology				
2	1	<b>Supply, Delivery, Installation, Commissioning and Testing of Branded and Brand New Surveillance System</b>				
		<b>Bullet 2mp cam 3.6mm (4 pcs)</b>				
		• Image Sensor: 2MP CMOS Image Sensor				
		• Signal System: PAL/NTSC				
		• Effective Pixels: 1296(H)x732(V)				
		• Min. Illumination: 0.01 Lux@(F1.2, AGC ON), 0 Lux with IR				
		• Shutter Time: 1/25(1/30) s to 1/50,000 s				

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		• Lens Mount: M12				
		• Adjustment Range: Pan: 0 - 360°, • Tilt: 0 - 180°, Rotation: 0 - 360°				
		• Day& Night: IR cut filter with auto switch				
		• Video Frame Rate: 720p@25fps/720p@30fps				
		• HD Video Output: 1 Analog HD output				
		• Synchronization: Internal Synchronization				
		• S/N Ratio: More than 62 dB				
		<i>General</i>				
		• Operating Conditions: -40 °C - 60 °C (-40 °F - 140 °F) Humidity 90% or less (non-condensing)				
		• Power Supply: 12 VDC±15%				
		• Weather Proof: IP66				
		• IR Range: Up to 20m				
		<b>Power Supply (4 pcs)</b>				
		• Mains cable = 196cm				
		• 12V cable = 180cm				
		• 2.1mm centre pin				
		• Centre pin is +ve				

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		<b>Channel (1pc)</b>				
		• Audio Input:1-ch				
		• Video Compression:H.264,H.264+				
		• Analog Video Input:4-ch				
		• Analog and HD-TVI video				
		• input:1080p25, 1080p30, 720p25, 720p30				
		• IP Video Input:1-ch (up to 5-ch)				
		• IP Video Input Resolution:Up to 2 MP resolution				
		• Audio Compression:G.711u				
		• Two-way Audio:1-ch RCA(2.0Vp-p, 1kΩ)				
		• Video/Audio Output				
		<b>HDMI/VGA Output: 1920 × 1080 / 60 Hz,1280 × 1024 / 60 Hz, 1280 × 720 / 60 Hz, 1024 × 768 / 60 Hz</b>				
		• Encoding resolution:				
		- When 1080p lite mode not enabled: 720p/WD1/4CIF/VGA/CIF				
		- When 1080p lite mode enabled: 1080p lite/HD 720p lite/WD1/4CIF/VGA/CIF				
		• Frame Rate: Main stream:				
		- When 1080p lite mode enabled: 1080p lite/HD 720p lite/WD1/4CIF/VGA@12fps; CIF@25fps (P)/30fps (N)				
		- When 1080p lite mode not enabled: For 720p stream access: GA@12fps; CIF@25fps (P)/30fps (N)				

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		<ul style="list-style-type: none"> <li>For SD stream access: WD1/4CIF/VGA/CIF@25fps (P)/30fps (N)</li> </ul>				
		<ul style="list-style-type: none"> <li>Sub-stream: CIF/QVGA/QCIF@25fps (P)/30fps (N)</li> </ul>				
		<ul style="list-style-type: none"> <li>Video Bit Rate: 32 Kbps ~ 4 Mbps</li> </ul>				
		<ul style="list-style-type: none"> <li>Stream Type: Video/Video&amp;Audio</li> </ul>				
		<ul style="list-style-type: none"> <li>Audio Output: 1-ch RCA(Linear, 1kΩ)</li> </ul>				
		<ul style="list-style-type: none"> <li>Audio Bit Rate:64kbps</li> </ul>				
		<ul style="list-style-type: none"> <li>Dual Stream: Support</li> </ul>				
		<ul style="list-style-type: none"> <li>Remote connections:32</li> </ul>				
		<ul style="list-style-type: none"> <li>Network protocols: TCP/IP, PPPoE, DHCP, Hik-Connect, DNS, DDNS, NTP, SADP, SMTP, NFS, iSCSI, UPnP™, HTTPS</li> </ul>				
		<b>Hard Disk Driver</b>				
		<ul style="list-style-type: none"> <li>Interface Type: 1 SATA Interface</li> </ul>				
		<ul style="list-style-type: none"> <li>Capacity: Up to 6 TB capacity for each disk</li> </ul>				
		<b>External Interface</b>				
		<ul style="list-style-type: none"> <li>USB Interface: 2 USB 2.0 Interfaces</li> </ul>				
		<ul style="list-style-type: none"> <li>Power Supply:12VDC</li> </ul>				
		<ul style="list-style-type: none"> <li>Consumption: ≤ 8 W</li> </ul>				
		<ul style="list-style-type: none"> <li>Working Temperature: -10 °C to +55 °C (14 °F to 131 °F)</li> </ul>				
		<ul style="list-style-type: none"> <li>Working Humidity: 10% to 90%</li> </ul>				

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LOT #	ITEM #	REQUIRED SPECIFICATIONS	OFFERED SPECIFICATIONS (write down detailed offered specifications)	REFERENCES (include supporting documents)	COMMENTS/ REMARKS (clarify inclusion/ exclusion)	EVALUATION
		<b>Hard Disk(1pc)</b>				
		• Capacity: 2TB				
		• 3.5" Form Factor				
		• 6 Gb/s Data Transfer Rate				
		• 64mb cache				
		• IntelliPower Rational Speed				
		• 300,000 Iod/unload cycles				
		• Surveillance Class Storage				
		• Supports 32 HD Surveillance Cameras				
		• 1 Millon Hours MTBF				
		• Windows and Mac Compatible				
		<b>UTP Cable (1 roll)</b>				
		• 4 Pairs Unshielded Twisted Pair (UTP) Cable				
		• Conductor Metal: Solid Bare Copper				
		• Color Code: Blue/ Grey				
		• Conductor Diameter: 0.5mm Nominal, 24 AWG				
		• Insulation Diameter: 0.860 Nominal, Insulation Material: HD-PE				
		• Jacket Material: PVC UL94V-0				

TECHNICAL SPECIFICATION FOR:

UPLB-S-092-10-19, SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING AND TESTING OF BRANDED AND  
**BRAND NEW IP CAMERA SURVEILLANCE SYSTEM**

DATE OF PREBID CONFERENCE:

Wednesday, 2 October 2019 10:30 AM

DEADLINE FOR SUBMISSION OF BIDS:

Wednesday, 16 October, 2019 UNTIL 1:15 PM

OPENING OF BIDS:

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		• Cable Diameter: 5.0mm nominal				
		<b>Balun (4 pair)</b>				
		• 1 Balun Pair, Passive Balun				
		• Works w/ analog CCTV cameras (PAL & NTSC)				
		• 330 Meter Transmission Distance				
		• Supports UTP / STP Cat 2, 3, 4, 5e, 6; 12~24 AWG or Heavier				
		• Compact design				
		• Cost savings by replacing costly coaxial cable				
		• Neater wiring eliminates bulky cables				
		<b>DC CONNECTOR (4 pair)</b>				
		National standard 5.5 * 5.5 mm DC DC male head lock screw head				
		Use the temperature: – 50 ° to 68 °				
		The joint metal: arcing stainless alloy, outer surface + silver plated copper plating chromium (non-ferrous)				
		Green glue stick marked + – is negative.				
		Joint plastic: put sun/oxidation resistance of PVC plastic				
		The maximum transmission: 10 a (1 v – 36 v)				
		The transmission voltage: 1 v ~ 36 v				
		The maximum transmission power: 120 w				

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		<b>CCTV box (4 pcs)</b>				
		• Material: Plastic				
		• Thickness: 1inch				
		<b>BOX MUST BE THE SAME AS BRAND OFFERED</b>				
		<b>LED Monitor (1 pc)</b>				
		• Panel Type: TN				
		• Resolution: 1440x900				
		• Back Light: LED				
		• Response Time: 5ms				
		• Viewing Angle: 80/80/80/80				
		• Active Area: 408.24mmx255.15mm(HxV)				
		• Brightness: 250cd/m2				
		• Refresh Rate: 60hz				
		• Contrast Ratio: 1000:1				
		• Size: 32"				
		<b>Accessories</b>				
		<b>Labor and Installation</b>				
		<b>1 year warranty</b>				



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3	1	<b>BRANDED AND BRAND NEW DIGITAL CAMERA</b>					
		20.1MP Super HAD CCD sensor,					
		35x optical zoom lens,					
		optical steady shot,					
		HD video,					
		Sweep panorama,					
		7.76 mm type-1/2.3 in Super HAD CCD,					
		ISO 80-3200					
		Warranty: 1 year					
	2	<b>BRANDED AND BRAND NEW MINI DOME CAMERA</b>					
		IR cut,					
		IR sensor,					
		1/4" CCD,					
		PAL/NTSC,					
		resolution 480-540 TVL,					
		focus length 3.6-38mm, <b>VARY FOCAL</b>					
		10x digital zoom,					
IR - 30M,							

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		DC 12v/4A,				
		dimension 4 inc,				
		metal casing aluminum shell ,				
		weather proof				
		IP67				
		Warranty: 1 year				

**Note:** Please fill-up applicable columns.

Signature of Representative: \_\_\_\_\_

Name of Representative: \_\_\_\_\_

Position: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone/ Fax: \_\_\_\_\_

Email: \_\_\_\_\_

End-user:

\_\_\_\_\_  
Signature over Printed Name