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| **OEM Criteria** | | | |
| 1. All products quoted and supplied to UCO Bank should be manufactured in India by the OEM directly not by third party and not from any other country.  - document with local BIS to be presented, and OEM name or India company name and India factory address registered in name of OEM to be presented as proof. | | | |
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| 2. OEM should have a registered office in India and local service center in all the State Capitals from last 05 years atleast. | | | |
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| 3. Product quoted should be UL, CE, FCC, Local BIS certified and product wise certificate to be provided by OEM  and FIPS certified, Cyber essential and GDPR document to be provided. | | | |
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| 4. Organization needs to be ISO 9001, 27001, 14001, 45001 certified for environment and cyber security reasons. | | | |
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| 5. OEM needs to have local service team with local branch and service center so that bank can call anytime OEM for audit - OEM service center details required. | | | |
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| 6. OEM should have 500+ employees directly in thier payroll. - document proof to be provided. | | | |
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| 7. OEM should be directly present in the state and not via any system integrator who is empanelled with the bank. OEM Documents for local presence to be submitted independently. | | | |
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| 8. Product quoted for camera, NVR/XVR, should be of same Make for seamless integration and also should be able to integrate existing hardware with the bank. | | | |
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| 9. OEM to provide local audit support anytime in region without any additional cost. | | | |
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| 10. OEM to be registered with government body under National skill development or  Manufacturing license of India in name of OEM so that bank can give preference to brands that are being manufactured in India. | | | |
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| HD DVR for 4 Channel 2 SATA | | | |
| ***S.N*** | ***Parameter*** | ***Specification*** | ***Compliances*** | |
| *1* | *Compatibility* | *Analog cameras (mandatory), AHD, CVI, TVI (minimum one out of the three other than itself)* |  | |
| *2* | *Main Processor / Operating System* | *Embedded* |  | |
| *3* | *System Resources* | *Pentaplex function: recording, playback, live view, backup, remote access over IP network* |  | |
| *4* | *Recorder Control Options* | *Video Front panel, IR Based remote control, Keyboard (Both RS485 and IP), IP Network, USB mouse* |  | |
| *5* | *Analog / HD Camera Input* | *Minimum 4 BNC* |  | |
| *7* | *Recorder Video Output* | *Minimum 1 VGA, 1 HDMI* |  | |
| *8* | *Recorder Audio Input* | *Minimum 1 audio channel, BNC or RCA* |  | |
| *9* | *Recorder Audio Output* | *Minimum 1 audio channel, BNC or RCA* |  | |
| *10* | *Recorder Bidirectional Talk* | *1 channel Input, BNC, 1 channel Output, BNC or RCA* |  | |
|
| *11* | *Display Screen Mode* | *1,4,8,9,16,32 ALL (Window)* |  | |
| *12* | *Camera Scheduling* | *Supported (Continuous/Motion/Event based)* |  | |
| *13* | *On Screen Display* | *Date, Time , Camera Title, Video loss alert, motion detection alert, recording, camera lock alert, camera tampering, camera masking.* |  | |
|
| *14* | *Video/Audio Compression* | *H.265/H.264/G.711 respectively (One Channel) or higher* |  | |
| *15* | *Image Resolution* | *1080p@25 fps, 1080p@30 fps, 720p@25 fps, 720p@30 fps;* |  | |
|  |
| *16* | *Encoding Stream* | *For 1080p stream access:1080p/720p@15 fps; VGA/WD1/4CIF/CIF@25 fps (P)/30 fps (N)* |  | |
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| *For 720p stream access: 720p/VGA/WD1/4CIF/CIF@25 fps (P)/30 fps (N)* |
| *17* | *Video Encoding Bit Rate* | *Analog video: 32~2048Kb/s or higher, IP video: 32~4096Kb/s or higher* |  | |
| *18* | *Image Quality* | *6 levels (VBR/ CBR)* |  | |
| *19* | *Recording Mode* | *Manual, Schedule, Regular, Motion detection, Camera blank, Video loss. Stop Recording* |  | |
| *20* | *Recording Priority* | *Manual; Alarm; Motion Detection & Regular* |  | |
| *21* | *Recording Interval* | *Prerecord: 1sec to 30 sec., Post-record: 10sec ~ 5 minutes* |  | |
| *22* | *Alarm Input* | *Supported Minimum 4* |  | |
| *23* | *Relay Output* | *Supported* |  | |
| *24* | *Water Marking* | *Supported* |  | |
| *25* | *Playback Channel* | *Synchronous Playback 1,2,4,16* |  | |
| *26* | *Recorded Data Search Mode* | *Video Time & Date, Exact search (with Date, Hour, Minute and Second accuracy), Motion Detection, Alarm* |  | |
| *28* | *Playback Options* | *Play, Digital zoom (any size), Pause, Rewind, Slow motion, shift to Next file, shift to Previous file, one click Previous camera, one click Next camera, Full screen mode, Replay, Backup selection, Fast forward, Shuffling* |  | |
| *29* | *Operation Over Network* | *Monitor, Playback, File download, Log information, System setting,* |  | |
| *30* | *Hard Drive Storage Option* | *For 4 Channel – 2 SATA or better* |  | |
| *31* | *USB Interface* | *Minimum 2 Ports* |  | |
| *32* | *Power Supply* | *AC 100~240 V, 50/60 Hz* |  | |
| *33* | *Working Environment* | *All Indoor weather conditions* |  | |
| *34* | *Duplex type* | *Recorder should be able to playback recoded footage without having to stop recording* |  | |
| *35* | *Certificate* | *UL ,CE,FCC & BIS* |  | |
| *36* | *HDD quality* | *Surveillance Hard Disk: Sky Hawk/Western Digital* |  | |

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| ***HD DVR for 8 Channel 4 SATA*** | | | |
| ***S.N*** | ***Parameter*** | ***Specification*** | ***Compliances*** |
| *1* | *Compatibility* | *Analog cameras (mandatory), AHD, CVI, TVI* |  |
| *2* | *Main Processor / Operating System* | *Embedded* |  |
| *3* | *System Resources* | *Pentaplex function: recording, playback, live view, backup, remote access over IP network* |  |
| *4* | *Recorder Control Options* | *Video Front panel, IR Based remote control, Keyboard (Both RS485 and IP), IP Network, USB mouse* |  |
| *5* | *Analog / HD Camera Input* | *Minimum 4 BNC* |  |
| *6* | *IP Camera Input* | *08 Ch. HD +4 IP Ch. (Total 12 IP Channel each upto 6 MP* |  |
| *6* | *IP Camera Input* | *08 Ch. HD +4 IP Ch. (Total 12 IP Channel each upto 6 MP* |  |
| *7* | *Recorder Video Output* | *Minimum 1 VGA, 1 HDMI* |  |
| *8* | *Recorder Audio Input* | *Minimum 1 audio channel, BNC or RCA* |  |
| *9* | *Recorder Audio Output* | *Minimum 1 audio channel, BNC or RCA* |  |
| *10* | *Recorder Bidirectional Talk* | *1 channel Input, BNC, 1 channel Output, BNC or RCA* |  |
|
| *11* | *Display Screen Mode* | *1,4,8,9,16,32 ALL (Window)* |  |
| *12* | *Camera Scheduling* | *Supported (Continuous/Motion/Event based)* |  |
| *13* | *On Screen Display* | *Date, Time , Camera Title, Video loss alert, motion detection alert, recording, camera lock alert, camera tampering, camera masking.* |  |
|
| *14* | *Video/Audio Compression* | *H.264 or better* |  |
| *15* | *Image Resolution* | *1080p/720p/VGA/WD1/4CIF/CIF;* |  |
| *16* | *Encoding Stream* | *For 1080p stream access:1080p/720p@15 fps; VGA/WD1/4CIF/CIF@25 fps (P)/30 fps (N)* |  |
|  |
| *For 720p stream access: 720p/VGA/WD1/4CIF/CIF@25 fps (P)/30 fps (N)* |
| *17* | *Video Encoding Bit Rate* | *Analog video: 32~2048Kb/s or higher, IP video: 32~4096Kb/s or higher* |  |
| *18* | *Image Quality* | *6 levels (VBR/ CBR)* |  |
| *19* | *Recording Mode* | *Manual, Schedule, Regular, Motion detection, Camera blank, Video loss. Stop Recording* |  |
| *20* | *Recording Priority* | *Manual; Alarm; Motion Detection & Regular* |  |
| *21* | *Recording Interval* | *Prerecord: 1sec to 30 sec., Post-record: 10sec ~ 5 minutes* |  |
| *22* | *Alarm Input* | *Supported Minimum 8* |  |
| *23* | *Relay Output* | *Supported* |  |
| *24* | *Water Marking* | *Supported* |  |
| *25* | *Playback Channel* | *Synchronous Playback 1,2,4,16* |  |
| *26* | *Recorded Data Search Mode* | *Video Time & Date, Exact search (with Date, Hour, Minute and Second accuracy), Motion Detection, Alarm* |  |
| *28* | *Playback Options* | *Play, Digital zoom (any size), Pause, Rewind, Slow motion, shift to Next file, shift to Previous file, one click Previous camera, one click Next camera, Full screen mode, Replay, Backup selection, Fast forward, Shuffling* |  |
| *29* | *Operation Over Network* | *Monitor, Playback, File download, Log information, System setting,* |  |
| *30* | *Hard Drive Storage Option* | *For 8 Channel – 4 SATA ,* |  |
| *Should support up to 10 TB per SATA port* |
| *31* | *USB Interface* | *Minimum 2 Ports and atleast 1 should be USB3.0* |  |
| *32* | *Power Supply* | *AC 100~240 V, 50/60 Hz* |  |
| *33* | *Working Environment* | *All Indoor weather conditions* |  |
| *34* | *Duplex type* | *Recorder should be able to playback recoded footage without having to stop recording* |  |
| *35* | *Certificate* | *UL ,CE,FCC & BIS* |  |
| *36* | *HDD quality* | *Surveillance Hard Disk: Sky Hawk/Western Digital* |  |

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| ***HD DVR 16 / 32 Channel 8 SATA*** | | | |
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| ***S.N*** | ***Parameter*** | ***Specification*** | ***Compliances for 32 CH*** |
| *1* | *Compatibility* | *Analog cameras (mandatory), AHD, CVI, TVI (minimum one out of the three other than itself)* |  |
| *2* | *Main Processor / Operating System* | *Embedded* |  |
| *3* | *System Resources* | *Pentaplex function: recording, playback, live view, backup, remote access over IP network* |  |
| *4* | *Recorder Control Options* | *Video Front panel, IR Based remote control, Keyboard (Both RS485 and IP), IP Network, USB mouse* |  |
| *5* | *Analog / HD Camera Input* | *Minimum 4 BNC* |  |
| *6* | *IP Camera Input* | *16 Ch. HD + 8 IP Ch. (32 Ch HD+ 16IP CH: 32 CH XVR)* |  |
| *7* | *Recorder Video Output* | *Minimum 1 VGA, 1 HDMI* |  |
| *8* | *Recorder Audio Input* | *Minimum 1 audio channel, BNC or RCA* |  |
| *9* | *Recorder Audio Output* | *Minimum 1 audio channel, BNC or RCA* |  |
| *10* | *Recorder Bidirectional Talk* | *1 channel Input, BNC, 1 channel Output, BNC or RCA* |  |
|
| *11* | *Display Screen Mode* | *1,4,8,9,16,32 ALL (Window)* |  |
| *12* | *Camera Scheduling* | *Supported (Continuous/Motion/Event based)* |  |
| *13* | *On Screen Display* | *Date, Time , Camera Title, Video loss alert, motion detection alert, recording, camera lock alert, camera tampering, camera masking.* |  |
|
| *14* | *Video/Audio Compression* | *H.264 or better* |  |
| *15* | *Image Resolution* | *1080p/720p/VGA/WD1/4CIF/CIF or better* |  |
| *16* | *Encoding Stream* |  |  |
|  |
| *For 1080p stream access:* |
| *1080p/720p@15 fps; VGA/WD1/4CIF/CIF@25 fps (P)/30 fps (N)* |
|  |
| *17* | *Video Encoding Bit Rate* | *Analog video: 32~2048Kb/s or higher, IP video: 32~4096Kb/s or higher* |  |
| *18* | *Image Quality* | *6 levels (VBR/ CBR)* |  |
| *19* | *Recording Mode* | *Manual, Schedule, Regular, Motion detection, Camera blank, Video loss. Stop Recording* |  |
| *20* | *Recording Priority* | *Manual; Alarm; Motion Detection & Regular* |  |
| *21* | *Recording Interval* | *Prerecord: 1sec to 30 sec., Post-record: 10sec ~ 5 minutes* |  |
| *22* | *Alarm Input* | *Supported Minimum 16* |  |
| *23* | *Relay Output* | *Supported Maximum 8* |  |
| *24* | *Water Marking* | *Supported* |  |
| *25* | *Playback Channel* | *Synchronous Playback 1,2,4,16,32* |  |
| *26* | *Recorded Data Search Mode* | *Video Time & Date, Exact search (with Date, Hour, Minute and Second accuracy), Motion Detection, Alarm* |  |
| *28* | *Playback Options* | *Play, Digital zoom (any size), Pause, Rewind, Slow motion, shift to Next file, shift to Previous file, one click Previous camera, one click Next camera, Full screen mode, Replay, Backup selection, Fast forward, Shuffling* |  |
| *29* | *Operation Over Network* | *Monitor, Playback, File download, Log information, System setting,* |  |
| *30* | *Hard Drive Storage Option* | *For 16 / 32 Channel – 8 SATA , should support up to 10 TB per SATA port* |  |
| *31* | *USB Interface* | *Minimum 2 Ports and atleast 1 should be USB3.0* |  |
| *32* | *Power Supply* | *AC 100~240 V, 50/60 Hz* |  |
| *33* | *Working Environment* | *All Indoor weather conditions* |  |
| *34* | *Duplex type* | *Recorder should be able to playback recoded footage without having to stop recording* |  |
| *35* | *Certificate* | *UL ,CE,FCC & BIS* |  |
| *36* | *HDD quality* | *Surveillance Hard Disk: Sky Hawk/Western Digital* |  |

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| **4CH ATM DVR** | | | |
| Sl No. | PARAMETERS | *Specifications* | *Compliance Yes/No* |
| *1* | *Operating system* | *Embedded RTOS / Linux / Windows* |  |
| *2* | *CPU* | *32 bit DSP or more powerful* |  |
| *3* | *Analog / HD Camera Input* | *4 Channel DVR* |  |
| *4* | Video surveillance Hard disk | *Surveillance Grade DVR HDD* |  |
| *5* | *HDD Slots* | *1 SATA* |  |
| *6* | *Video Input* | *4 Ch (Only for ATMs)* |  |
| *7* | *Display speed* | *100 fps for 4 channel (Only for ATMs) (25 fps for each channel)* |  |
| *8* | *Compression method* | *H.265 Pro+/H.265 Pro/H.265/H.264+/H.264* |  |
| *9* | *Display split screen (Screen mode)* | *1,4 for 4 channel,1,9 for 8 Channel &1,16 for 16 channel* |  |
| *10* | *Encoding Resolution* | [WD1/4CIF/CIF@25 fps (P)/30 fps (N) or better resolution](mailto:WD1/4CIF/CIF@25%20fps%20(P)/30%20fps%20(N)%20or%20better%20resolution) |  |
| *11* | *Audio Input* | *1-ch, RCA (2.0 Vp-p, 1 KΩ)* |  |
| *12* | *Audio Output* | *1-ch, RCA (Linear, 1 KΩ)* |  |
| *13* | *Synchronous Playback* | *4 Ch* |  |
| *14* | *Independent Recording setting Per channel* | *Continuous, motion detection sensor activated, flexible date /time daily Schedule.* |  |
| *15* | *Monitoring* | *4 channel real time Monitoring. Single mode & 2x2 Mode Sequential switching mode Switching out monitoring* |  |
| *16* | *Searching / Playback* | Date & Time based 1 channel searching and all channel simultaneous searching Replay up to 25 fps in each channel |  |
| *17* | *Video Intelligence* | *Should support Motion detection, Intrusion Detection* |  |
| *18* | *Back Up facility* | *In built & provision for External portable HDD/Pen drive/through USB port. Player software to play back recorded video should automatically be loaded on to the external back up media so that it can be played back on any PC directly.* |  |
| *19* | *User Interface* | *On screen graphic User Interface(GUI)* |  |
| *20* | System recovery after power failure | *Auto Re booting* |  |
| *21* | Operation for setting and searching | *User friendly* |  |
| *22* | *Multiple functionality* | *Should support pentaflex functions to perform all DVR functions at the same time, i.e., record, live view/playback, network (view remotely), administrative and backup. Client software for remote view shall be provided free of any charge if required.* |  |
| *23* | *Compatibility* | *Should support all types of cameras* |  |
| *24* | *Certifications* | *UL ,CE,FCC & BIS* |  |
| *25* | *System operation* | *Micro processor based Password operated* |  |

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| **HD Fixed Dome** | | | |
| *S.No* | *Parameters* | *Specification* | *Compliance Yes/No* |
| *1* | *HD Technology* | *AHD, CVI, TVI, CVBS* |  |
| *2* | *Image Sensor* | *1/3“ 1080P CMOS Sensor /CCD or better* |  |
| *3* | *Signal System* | *PAL* |  |
| *4* | *Effective Pixels* | *1920(H)x1080(V)) or better* |  |
| *5* | *Mini. Illumination* | *Color: 0.0005 Lux or better, 0 Lux IR on* |  |
| *6* | *Video Output* | *1080P or higher @ 25 fps* |  |
| *7* | *Display Resolution* | *1080P or higher @ 25 fps* |  |
| *8* | *Recording Resolution* | *1080P or higher @ 25 fps* |  |
| *9* | *Frame Rate* | *50Hz:1080p or higher @25fps* |  |
| *10* | *SNR* | *≥52dB* |  |
| *11* | *Sync System* | *Internal* |  |
| *12* | *White Balance* | *Automatic* |  |
| *13* | *Day & Night* | *Automatic* |  |
| *14* | *Shutter* | *Automatic* |  |
| *15* | *Auto Gain Control (AGC)* | *Automatic* |  |
| *16* | *Noise Reduction (NR)* | *3DNR* |  |
| *17* | *White Light* | *Up to 20 mtr* |  |
| *18* | *Lens* | *3.6mm, 6mm* |  |
| *19* | *WDR* | *120 db WDR* |  |
| *20* | *Input Voltage* | *DC12V±10%* |  |
| *21* | *IP Rating* | *IP67* |  |
| *22* | *Operation Temp* | *-30*o to +50o C |  |
| *23* | *Storage Humidity* | *90% or less* |  |
| *24* | *Certification* | *UL ,CE,FCC & BIS* |  |

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| **HD Fixed Bullet** | | | | | | |
| *S.No* | | *Parameters* | *Specification* | | *Compliance Yes/No* | |
| *1* | | *HD Technology* | *AHD, CVI, TVI, CVBS* | |  | |
| *2* | | *Image Sensor* | *1/3“ 1080P CMOS Sensor /CCD or better* | |  | |
| *3* | | *Signal System* | *PAL* | |  | |
| *4* | | *Effective Pixels* | *1920(H)x1080(V)) or better* | |  | |
| *5* | | *Mini. Illumination* | *Color: 0.0005 Lux or better , 0 Lux IR On* | |  | |
| *6* | | *Video Output* | *1080P or higher @ 25 fps* | |  | |
| *7* | | *Display Resolution* | *1080P or higher @ 25 fps* | |  | |
| *8* | | *Recording Resolution* | *1080P or higher @ 25 fps* | |  | |
| *9* | | *Frame Rate* | *50Hz:1080p or higher @25fps* | |  | |
| *10* | | *SNR* | *≥52dB* | |  | |
| *11* | | *Sync System* | *Internal* | |  | |
| *12* | | *White Balance* | *Automatic* | |  | |
| *13* | | *Day & Night* | *Automatic* | |  | |
| *14* | | *Shutter* | *Automatic* | |  | |
| *16* | | *Auto Gain Control (AGC)* | *Automatic* | |  | |
| *17* | | *Noise Reduction (NR)* | *3DNR* | |  | |
| *18* | | *White Light* | *Up to 30 mtr* | |  | |
| *20* | | *Lens* | *3.6mm* | |  | |
| *21* | | *Field of view* | *3.6 mm, horizontal FOV: 83.0°, vertical FOV: 44.4°, diagonal FOV: 98.0° 6 mm, horizontal FOV: 51.0°, vertical FOV: 28.5°, diagonal FOV: 58.7°* | |  | |
| *22* | | *WDR* | *120 db WDR ( DWDR not acceptable)* | |  | |
| *23* | | *Input Voltage* | *DC12V±10%* | |  | |
| *24* | | *IP Rating* | *IP67* | |  | |
| *25* | | *Operation Temp* | *-30*o to +50o C | |  | |
| *26* | | *Storage Humidity* | *90% or less* | |  | |
| *27* | | *Certification* | *UL ,CE,FCC & BIS* | |  | |
| **HD Varifocal Dome** | | | | | | | |
| *S.No* | *Parameters* | | | *Specification* | | *Compliance Yes/No* | |
| *1* | *HD Technology* | | | *AHD, CVI, TVI* | |  | |
| *2* | *Image Sensor* | | | *1/3“ 1080P CMOS Sensor /CCD or better* | |  | |
| *3* | *Signal System* | | | *PAL* | |  | |
| *4* | *Effective Pixels* | | | *1920(H)x1080(V)) or better* | |  | |
| *5* | *Mini. Illumination* | | | *Mini. 0.01Lux@F1.2, AGC   Illumination ON, 0 Lux with IR* | |  | |
| *6* | *Video Output* | | | *1080P or higher @ 25 fps* | |  | |
| *7* | *Display Resolution* | | | *1080P or higher @ 25 fps* | |  | |
| *8* | *Recording Resolution* | | | *1080P or higher @ 25 fps* | |  | |
| *9* | *Frame Rate* | | | *50Hz:720p or higher @25fps* | |  | |
| *10* | *SNR* | | | *≥52dB* | |  | |
| *12* | *Sync System* | | | *Internal* | |  | |
| *13* | *White Balance* | | | *Automatic* | |  | |
| *14* | *Day & Night* | | | *Automatic* | |  | |
| *15* | *Shutter* | | | *Automatic* | |  | |
| *16* | *Auto Gain Control (AGC)* | | | *Automatic* | |  | |
| *17* | *Noise Reduction (NR)* | | | *3DNR* | |  | |
| *18* | *IR Range* | | | *Up to 30m* | |  | |
| *19* | *Lens* | | | *2.8-12mm (verifocal)* | |  | |
| *20* | *WDR* | | | *120 db WDR ( DWDR not acceptable)* | |  | |
| *21* | *Input Voltage* | | | *DC12V±10%* | |  | |
| *22* | *IP Rating* | | | *IP67 ,IK10* | |  | |
| *23* | *Operation Temp* | | | *0*o to +50o C | |  | |
| *24* | *Storage Humidity* | | | *90% or less* | |  | |
| *25* | *Certification* | | | *UL ,CE,FCC & BIS* | |  | |

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| **Specifications: 2 MP IR Fixed Turret Network Camera(IP Camera)** | | |
| Sl No | Camera |  |
| 1 | Image Sensor | 1/2.8" Progressive Scan CMOS |
| 2 | Min. Illumination | Color: 0.01 Lux @(F1.2, AGC ON), 0.028Lux @(F2.0, AGC ON); |
| 3 |  | B/W: 0.001 Lux @(F1.2, AGC ON), 0.0028 Lux @(F2.0, AGC ON) |
| 4 | Shutter Speed | 1/3 s to 1/100,000 s |
| 5 | Slow Shutter | Yes |
| 6 | Auto-Iris | No |
| 7 | Day & Night | IR Cut Filter |
| 8 | Digital Noise Reduction | 3D DNR |
| 9 | WDR | 120 dB |
| 10 | 3-Axis Adjustment | Pan: 0°to 360°, tilt: 0°to 75°, rotate: 0°to 360° |
|  | Lens |  |
| 11 | Focal Length | 2.8/4/6 mm |
| 12 | Aperture | F2.0 |
| 13 | Focus | Fixed |
| 14 | FOV | 2.8 mm: horizontal FOV: 103°, vertical FOV: 62°, diagonal FOV: 118° |
|  |  | 4 mm: horizontal FOV: 90°, vertical FOV: 48°, diagonal FOV: 109° |
|  |  | 6 mm: horizontal FOV: 55°, vertical FOV: 31°, diagonal FOV: 62° |
| 17 | Lens Mount | M12 |
|  | IR |  |
| 18 | IR Range | Up to 40 m |
| 19 | Wavelength | 850nm |
|  | Compression Standard |  |
| 20 | Video Compression | Main stream: H.265/H.264 |
|  |  | Sub-stream: H.265/H.264/MJPEG |
|  |  | Third stream: H.265/H.264 |
| 21 | H.264 Type | Baseline Profile/Main Profile/High Profile |
| 22 | H.264+ | Main stream supports |
| 23 | H.265 Type | Main Profile |
| 24 | H.265+ | Main stream supports |
| 25 | Video Bit Rate | 32 Kbps to 8 Mbps |
|  | Smart Feature-set |  |
| 26 | Behavior Analysis | Line crossing detection, intrusion detection |
| 27 | Exception Detection | Scene change detection |
| 28 | Face Detection | Yes |
| 29 | Region of Interest | 1 fixed region for main stream |
|  | Image |  |
| 30 | Max. Resolution | 1920 × 1080 |
| 31 | Main Stream | 50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720) |
|  |  | 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720) |
| 32 | Sub-Stream | 50Hz: 25fps (704 × 576, 640 × 480, 352 × 288, 320 × 240) |
|  |  | 60Hz: 30fps (704 × 480, 640 × 480, 352 × 240, 320 × 240) |
| 33 | Third Stream | 50Hz: 1fps (352 x 240, 320 x 240) |
|  |  | 60Hz: 1fps (352 x 240, 320 x 240 |
| 34 | Image Enhancement | BLC, 3D DNR, HLC |
| 35 | Image Settings | Rotate mode, saturation, brightness, contrast, sharpness adjustable by client software or web browser |
| 36 | Day/Night Switch | Day/Night/Auto/Schedule |
|  | Network |  |
| 37 | Network Storage | Support Micro SD/SDHC/SDXC card (128G), NAS (NFS, SMB/CIFS) |
| 38 | Alarm Trigger | Motion detection, video tampering, illegal login, HDD full, HDD error |
| 39 | Protocols | TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, SNMP, IGMP, 802.1X, QoS, IPv6, BonjourPPPoE, NTP, UPnP™, SMTP, |
| 41 | General Function | Anti-flicker, heartbeat, mirror, password protection, privacy mask, watermark, IP address filter |
| 42 | Firmware Version | V5.5.3 |
| 43 | API | ONVIF (PROFILE S, PROFILE G), ISAPI |
| 44 | Simultaneous Live View | Up to 6 channels |
| 45 | User/Host | Up to 32 users, 3 levels: Administrator, Operator and User |
| 48 | Client | iVMS-4200, Hik-Connect, iVMS-5200, iVMS-4500 |
| 49 | Web Browser | IE8+, Chrome 31.0-44, Firefox 30.0-51, Safari 8.0+ |
|  | Interface |  |
| 50 | Audio | 1 built-in mic |
| 51 | Communication Interface | 1 RJ45 10M/100M self-adaptive Ethernet port |
| 52 | On-board Storage | Built-in micro SD/SDHC/SDXC slot, up to 128 GB |
|  | General |  |
| 53 | Operating Conditions | -30 °C to +60 °C (-22 °F to +140 °F), humidity 95% or less (non-condensing) |
| 54 | Power Supply | 12 VDC ± 25%, PoE (802.3af, class 3) |
| 55 | Power Consumption and Current | PoE: (802.3af, 36V to 57V), 0.2 A to 0.1 A, max: 6.5W, 12 VDC, 0.4 A, max. 5.0W |
| 56 | Protection Level | IP67 |
| 57 | Material | Shell: plastic, camera body: metal |
| 58 | Dimensions | Camera: F 114.6 × 82.1 mm (F 4.5" × 3.2") |
|  |  | With package: 150 × 150 × 141 mm (5.9" × 5.9" × 5.6") |
| 59 | Weight | Camera: approx. 400 g (0.9 lb.) |
|  |  | With package: approx. 500 g (1.1 lb.) |
| 60 | Certification | UL ,CE,FCC & BIS |

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| **HD varifocal Bullet** | | | |
| *S.No* | *Parameters* | *Specification* | *Compliance Yes/No* |
| *1* | *HD Technology* | *AHD, CVI, TVI* |  |
| *2* | *Image Sensor* | *1/3“ 1080P CMOS Sensor /CCD or better* |  |
| *3* | *Signal System* | *PAL* |  |
| *4* | *Effective Pixels* | *1920(H)x1080(V)) or better* |  |
| *5* | *Mini. Illumination* | *Mini. 0.01Lux@F1.2, AGC   Illumination ON, 0 Lux with IR* |  |
| *6* | *Video Output* | *1080P or higher @ 25 fps* |  |
| *7* | *Display Resolution* | *1080P or higher @ 25 fps* |  |
| *8* | *Recording Resolution* | *1080P or higher @ 25 fps* |  |
| *9* | *Frame Rate* | *50Hz:720p or higher @25fps* |  |
| *10* | *SNR* | *≥52dB* |  |
| *12* | *Sync System* | *Internal* |  |
| *13* | *White Balance* | *Automatic* |  |
| *14* | *Day & Night* | *Automatic* |  |
| *15* | *Shutter* | *Automatic* |  |
| *16* | *Auto Gain Control (AGC)* | *Automatic* |  |
| *17* | *Noise Reduction (NR)* | *3DNR* |  |
| *18* | *IR Range* | *Up to 30m* |  |
| *19* | *Lens* | *2.8-12mm (verifocal)* |  |
| *20* | *WDR* | *120 db WDR ( DWDR not acceptable)* |  |
| *21* | *Input Voltage* | *DC12V±10%* |  |
| *22* | *IP Rating* | *IP67* |  |
| *23* | *Operation Temp* | *0*o to +50o C |  |
| *24* | *Storage Humidity* | *90% or less* |  |
| *25* | *Certification* | *UL ,CE,FCC & BIS* |  |

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| **Pinhole Camera** | | | |
| *Sr No* | *Feature* | *specification* | *Compliance Yes/No* |
| *1* | *Image Sensor* | *1/3'' CMOS /CCD or better* |  |
| *2* | *Effective pixels* | *1920(H)x1080(V))* |  |
| *3* | *Resolution* | *1920(H)x1080(V))* |  |
| *4* | *Sync system* | *Internal* |  |
| *5* | *Min. illumination* | *Colour-0.05Lux B/W 0.005Lux or better* |  |
| *6* | *S/N ratio* | *52 dB* |  |
| *7* | *Electronic shutter* | *Auto, 1/50 , 1/100,000 sec* |  |
| *8* | *Lens* | *4 mm or <4mm* |  |
| *9* | *WDR* | *120 db WDR* |  |
| *10* | *BLC* | *On/Off ( Auto)* |  |
| *11* | *Motion detection* | *Yes* |  |
| *12* | *Gamma* | *Auto/manual* |  |
| *13* | *White balance* | *Set/Manual/Indoor/Outdoor/ Auto* |  |
| *14* | *AGC* | *Off/Low/Middle/High* |  |
| *15* | *Day & Night* | *Color/B/W/Auto level adjust* |  |
| *16* | *Video output* | *1.00V p-p Composite Video Output, 75 Ohm* |  |
| *17* | *Power supply* | *DC12V* |  |
| *18* | *Power consumption* | *3 Watts max* |  |
| *19* | *Certification* | *UL ,CE,FCC & BIS* |  |

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| **3+1 Coaxial and power cable** | | |
| **Coaxial Cable** |  |  |
| Conductor | Material | Bare copper |
|  | Wire Gauge | 26AWG |
|  | Diameter | 0.41±0.01mm |
| Insulation | Material | FPE |
|  | Diameter | 2.0±0.1mm |
| Tape | Material | Copper foil |
| Braid | Material | Copper clad aluminum magnesium |
|  | Braiding Standard | 5\*16\*0.12mm ±0.008mm |
|  | Braiding Density | ≥80% |
| Jacket | Material | PVC |
| Impedance |  | 75 ohms |
| **Power Cable** |  |  |
| Conductor | Material | Bare copper |
|  | Quantity | 3 |
|  | Diameter | 11\*0.16±0.008mm |
| Insulation | Material | SR-PVC |
|  | Diameter | 1.2±0.1mm |
| Jacket | Material | PVC |
| Make & Type | Acceptable type | ISI Marked (IS-694, 1990) |
|  |  | Make – Finolex, Polycab or similar quality, |
| **(CATEGORY 6A U/UTP 4 PAIR 23 AWG LSZH)- CAT 6 CABLE** | | |
| Physical Characteristics | |  |
| Insulation | Construction | U/UTP |
| Number of pairs | 4 pair |
| AWG | 23 AWG (0.57=/- 0.01mm) |
| Solid or Stranded; bare or tinned | Solid bare copper |
| Insulation Material | HDPE |
| Number colour(stripe marking) | 1. Blue, White/Blue(Stripe) |
|  | 2. Orange, White/Orange (stripe) |
|  | 3. Green, White/Green(stripe) |
|  | 4. Brown, White/Brown (stripe) |
| Filter | Filter Special Filler | LSZH |
| Outer Jacket material | LSZH |
| Outer Jacket | Overall dimention | 7.5 +/- 0.4 mm |
| Outer jacket rip cord | Yes |
| Outer jacket colour | Grey RAL 7035 |
| Mechanical | Operating temp. Range | -20 ℃ ~ +70 ℃ |
| Nom. Mutual capacitance | <=5.6 nF/100m @1KHz |
| Electrical | Max. Capacitance unbalance | <=330 pF/100m |
| Nominal velocity of propagation | 65% |
| Max. Delay skew | 45 ns/100m |
| Characteristics | Impedence | 100±15%Ω |
| Max. Conductor resistance | 93.8Ω/km (@ 20 ℃) |
| Max. Conductor resistance unbalance | <=5% (@ 20 ℃) |
| Make & Type |  | Molex, TRISIM, D Link, Digisol, |

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| **19" / 22"/ 24" HD LCD Monitor** | | | | | |
| **S.No** | **Category** | **Parameters** | **Specification** | **Compliance Yes/No** | **Remark** |
| 1 | Monitor | Backlight | LED Backlight |  |  |
| 2 | Screen Size | 19 inch |  |  |
| 3 | Pixel Pitch | 0.36375mm \* 0.36375mm |  |  |
| 4 | Max Resolution | 1920 \* 1080@60Hz |  |  |
| 5 | Brightness | 300 cd/m2(typ.) |  |  |
| 6 | Contrast | 1400:1(typ.) |  |  |
| 7 | Response Time | 8 ms |  |  |
| 8 | Color | 16.7M |  |  |
| 9 | Active Area | 698.4(H)\*392.85 (V) mm |  |  |
| 10 | Viewing Angle | 178°(H)/178°(V) |  |  |
| 11 | Interface | VGA Input | 1 |  |  |
| 12 | HDMI Input | 1 |  |  |
| 13 | Audio Input | 1 |  |  |
| 14 | RJ45(RS232) | 1 |  |  |
| 15 | General | Loudspeaker | Yes |  |  |
| 16 | VESA | 75 mm × 75 mm |  |  |