**Mobile Device Requirements**

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| --- | --- | --- | --- |
| **Feature** | **Requirement** | **Release 1** | **Release 2** |
|  |  |  |  |
| Installation | Easy install and update from iOS and Android app store | Y | Y |
|  | International language support | Y | Y |
|  | User can completely delete application from device | Y | Y |
|  |  |  |  |
| Camera Configuration | Ability to control camera resolution and frame rate | Y | Y |
|  | Select 480P (low resolution video is not needed) | Optional | Optional |
|  | Select 720P 30, 60, 120 FPS | Y | Y |
|  | Select 1080P 30, 60 and 120 FPS (120 Optional) | Y | Y |
|  | Select 4K, 30, 60 and 120 FPS (120 Optional) | Y | Y |
|  | Support H.264 AVC Encoding (MP4) | Y | Y |
|  | Support H.265 HEVC Encoding (MOV) | Y | Y |
|  |  |  |  |
| Constraints | App can set maximum duration for recordings | Y | Y |
|  | Note: servers can also limit size of recordings | Y | Y |
|  | Use storage statistics to limit app storage utilization | Optional | Optional |
|  |  |  |  |
| Maintenance | List Pips with video properties | Y | Y |
|  | User can completely delete Pips from device | Y | Y |
|  | Logging of app activity on device | Y | Y |
|  |  |  |  |
| Tracking | We would like to acquire the GPS location when used | Optional | Optional |
|  |  |  |  |
| Security and Identify | Wi-Fi network can hide SSID; require password | Y | Y |
|  | App searches for Media Service on network | Y | Y |
|  | Mobile device connects to portable Win10 server | Y | Y |
|  | Mobile device connects to home Linux server | Y | Y |
|  | Mobile device and server use JWT or equivalent | Y | Y |
|  |  |  |  |
| Basic Operation | Load the application | Y | Y |
|  | Load tagging control UI (Stream Deck style) | TBD | TBD |
|  | Record video on local device | Y | Y |
|  | No limits on the number of recordings | Y | Y |
|  | Option to upload video file automatically as recorded | Y | Y |
|  | Option to upload video when user finished recording | Y | Y |
|  |  |  |  |
| Advanced Operation | Mobile app can search for scheduled event on server | Y | Y |
|  | Mobile app can subscribe to tagging data from server | Y | Y |
|  | Mobile app can initiate IP Camera streaming recording | Y | Y |
|  | Mobile app can receive streaming video from server | Y | Y |
|  | Servers will present scheduled events to mobile device | N | Y |
|  | Servers will publish tagging data to mobile device | N | Y |
|  | Server will start IP Camera streaming recording | N | Y |
|  | Servers will download Pips to mobile device | N | Y |
|  | Servers will download video to mobile device | N | Y |
|  | Servers will send streaming video to mobile device | N | Y |
|  |  |  |  |
| Video Playback on Device | Playback all locally recorded videos | Y | Y |
|  | Playback at speeds 1/8; ¼; ½; 1x; 2x; 4x | Y | Y |
|  | Use tagging data and box score to play back events | N | Y |
|  |  |  |  |
| Pricing | Cost to download mobile app from both app stores | Free | Free |
| Code Base | Same mobile device code base for both releases | Y | Y |
| Free Win10 Service | Has limited features, allows mobile app to send files | Free |  |
| Paid Win10 & Linux Service | Has full features | N | Y |