**1.1 Wi-Fi IP Camera**

1.1.1 Must have a 1/3” or larger CCD/MOS/CMOS image sensor with a true resolution of 5MP, 2560x1920 pixels, and progressive scanning.

1.1.2 Must have a motorized varifocal lens of **2.8~8mm**.

1.1.3 Must have automatic iris control (auto iris).

1.1.4 Must have automatic and manual focus control.

1.1.5 Must have white balance adjustment. – ***Rhombus offers Brightness, Max ISO, and Exposure Metering that satisfy the requirement.***

1.1.6 Must have automatic gain control (AGC).

1.1.7 Must have backlight compensation (BLC - Back Light Compensation). – ***Rhombus offers Brightness, Max ISO, and Exposure Metering that satisfy the requirement.***

1.1.8 Must have true Wide Dynamic Range (WDR) >= 120dB.

1.1.9 Must operate with a minimum required illumination of 0.005 lux in color mode.

1.1.10 Must have a signal-to-noise ratio (SNR) >= 52dB. – ***No audio available in Rhombus cameras***

1.1.11 Must have a system for transmitting two simultaneous and independent video streams, each of which can be configured with independent compression protocol, resolution, bit rate, and frames per second (fps). – ***Multiple streams can be shared out, Rhombus does offer a low-resolution and high-resolution option*.**

1.1.12 Must support a configurable transmission rate between 64Kbps and 16Mbps.

1.1.13 Must have fixed and variable transmission rate control (CBR/VBR). – ***Rhombus uses VBR***

1.1.14 Must have a primary video stream with H.264/H.265 compression, 2560x1920 resolution at 20fps, and a configurable transmission rate between 64Kbps and 16Mbps. - ***Rhombus uses H.264 and 15fps standard, but can go up to 24fps.***

1.1.15 Must have a secondary video stream with H.264/H.265 compression, 1920x1080 resolution at 30fps, and a configurable transmission rate between 64Kbps and 8Mbps. – ***Rhombus offers a low-resolution option. Rhombus does not offer 30fps*.**

1.1.16 Must support TCP/IP IPv4, IPv6, HTTP, HTTPS, FTP, DHCP, DNS, NTP, RTP/RTCP, SNMP, SMTP, and DHCP protocols and applications.

1.1.17 Must be compatible with the ONVIF standard, Profile G, S, and T. – ***Compatible with standard H264 codec***

1.1.18 Must allow for remote software updates.

1.1.19 Must have video motion detection capability with area of interest marking.

1.1.20 Must have a virtual line crossing/transposition feature. – ***Currently, we don’t offer this, but it is on the product roadmap.***

1.1.21 Must allow configuration and camera viewing through a standard web browser with access control via encrypted user authentication and password.

1.1.22 Must have at least three types of users with different permission levels: administrator, operator, and viewer.

1.1.23 Must have a feature for recording images on a memory card when communication with a recording system is interrupted.

1.1.24 Must have a memory card slot, filled with a 128GB memory card with a write speed compatible with the camera.

1.1.25 Must have an Ethernet IEEE 802.3u network interface, 100BaseTx with automatic speed and operation mode detection.

1.1.26 Must have a Wi-Fi interface according to the IEEE 802.11g, IEEE 802.11n, IEEE 802.11ac standards at 2.4GHz and 5GHz frequencies.

1.1.27 Must have PoE power supply according to the IEEE 802.3af standard.

1.1.28 Must support the IEEE802.1x standard.

1.1.29 Must operate in environments with temperatures ranging from -5°C to 50°C.

1.1.30 Must have IP66 and IK10 protection ratings.

1.1.31 The camera must be compatible with and integrated into the offered VMS (ITEM 02), listed on the VMS manufacturer's approved equipment list and/or website.

1.1.32 All accessory sets, including protective housing and mounting brackets, must be recommended by the manufacturer for use with the proposed camera and provide a perfect fit to the installation location without leaving exposed cabling.

**1.1.33 Camera must come with a 10-year warranty**

**1.1.34 Provide proactive notifications when the camera is disconnected**

**1.1.35 Provide audit and diagnostic reports for devices and users in the console**

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**1.1.33 A camera deve vir com uma garantia de 10 anos.**

**1.1.34 Deve fornecer notificações proativas quando a câmera for desconectada.**

**1.1.35 Deve fornecer relatórios de auditoria e diagnóstico para dispositivos e usuários do console.**