IMPROVED CYBER SECURITY OF IP CAMERAS

General,

While the vision of IoT is enticing for the convenience, capabilities and flexibility vast networks of connected devices offer, there is a growing risk for security threats and breaches as the number of entry points into a network dramatically increases.

Therefore, the cyber security requirements from IP cameras are more strictly than before.

Upgrade cyber security requirements from IP cameras are as below:

1. 3 levels of password, with different levels of authorization
2. No default password for more security performance
3. Support 802.1x protocol with RADIOUS server authentication
4. Support HTTPS via SSL certification
5. No TELNET without authorization
6. Support the encryption methods: TLS 1.2, SSL, DES, 3EDS
7. Only by manufacture signature file could the firmware upgrade enabled
8. Trusted hardware modules

Here is the result table compared with other brands:

Requirement	Axis	Sony	Panasonic	Bosch	Grundig	Milesight
1	√	√	√	√	√	√
2	√	×	√	√	×	√
3	√	√	√	√	√	√
4	√	√	√	√	√	√
5	√	√	√	√	√	√
6	√**	×	√	√	×	√
7	×	×	√ *	√	×	√
8	×	×	×	√	×	√

√* means the requirement is not fully supported by default but customizable.

√** means the requirement is not supported by default but customizable.

Disclaimer:

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