**4K / HD Integrated Camera IP / Serial connection diagram**

**IP Connection Diagram**

4K/HD Remote Camera

| 4K Integrated Camera
AW-UE70W/K*1 |
|------------------|
| HD Integrated Camera
AW-HE130W/K*1 |
| HD Integrated Camera
AW-HE40SW/SK/HW/HK*1 |
| Control Assist Camera
AW-HEA10W/K*2 |
| Full-HD Outdoor
Integrated Camera
AW-HR140*8 |

Controller

Remote Operation Panel
AK-HRP200G*3

Remote Camera Controller
AW-RP120G*1/4
AW-RP50*5/6

Auto Tracking Software*7

PTZ Control Center (Free Software)

Wireless AP

HUB

Optional Cable
AW-CA150H29G

Mini DIN cable (RS-232C connection)

LAN cable of Cat5e or higher*6

*1: When connected to a hub that supports PoE+, the provided AC adaptor is not required.

*2: When connected to a hub that supports PoE+PoE+, the provided AC adaptor is not required.

*3: The AW-HEA10W/K is not supported. Depending on the camera to be operated, this unit may require a software upgrade. For details, please contact the sales representative.

*4: When using a Remote Operation Panel (ROP), an additional AC adaptor or PoE hub may be required depending on the type of ROP.

*5: The AW-HEA10W/K is not supported. Depending on the camera to be operated, this unit may require a software upgrade. For details, please contact the sales representative.

*6: There are limitations on the connection methods and the functions that can be controlled. For details, please contact the sales representative.

---

**Serial Connection Diagram**

4K Multi-Purpose Camera
AK-UB3000GJ*1

HUB

4K Integrated Camera
AW-UE70W/K*3

HD Integrated Camera
AW-HE130W/K*3

HD Integrated Camera
AW-HE40SW/SK/HW/HK*3

Full-HD Outdoor
Integrated Camera
AW-HR140

Controller

Remote Operation Panel*4
AK-HRP200G
AK-HRP1000GJ
AK-HRP1005GJ

Remote Camera Controller
AW-RP120G*5
AW-RP50*5

Commercially available controller supporting standard protocols

Max 1500 m

LAN cable of Cat5e or higher*6

Mini DIN cable (RS-422 connection)

Control cable procured locally

*1: For AK-UB3000GJ, please prepare AC adaptors 12 V(DC) with more than 60 W.

*2: AW-CA15H29G is not required when a remote operation panel (ROP) is directly connected to AK-UB3000GJ.

*3: The AW-HEA10W/K is not supported. Depending on the camera to be operated, this unit may require a software upgrade. For details, please contact the sales representative.

*4: An Apple iPad (sold separately) is required for use.

*5: When connecting AW-HE40SW/SK/HW/HK directly, please use a crossover cable. When connecting via a hub (switching hub), please use a straight cable.

*6: When connecting AW-HE130W/K directly, please use a crossover cable. When connecting via a hub (switching hub), please use a straight cable.


*8: AW-HR140 PoE++ conforms to IEEE802.3bt (Draft ver. 2.0).