

# Camera system setup: Technical notes

## Power kit capacity

Due to varying power consumption, the number of cameras a power kit can power depends on the camera type and cable length.

If cables longer than the maximum cable length per power supply is needed, you need to add more power supplies.

Camera	Max Power kit capacity	Maximum cable length per power supply
Arqus (incl Protected)	5	50 m
Miqus	10	120 m
Miqus Video	3	120 m
Miqus Hybrid	3	120 m
Oqus	5	-

## Inter-chain mixing

Cameras using the same cable type can be mixed together in a chain, without the need of a network switch.

To mix cameras of different cable types you need to use a switch.

Camera	Cable type
Arqus	A
Arqus Protected	B
Miqus	A
Miqus Video	A
Miqus Hybrid	A
Oqus	C

## Maximum chain sizes in homogeneous systems

The maximum chain size dictates how many cameras there can be in a single chain. To build a camera system with a larger number of cameras you need to use multiple chains, which are joined together with a network switch.

Camera	Max chain size <sup>1</sup>
Arqus (incl Protected)	20
Miqus	20
Miqus Video	3
Miqus Hybrid	3
Oqus	15

## Mixing Arqus & Miquis

Arqus and Miquis cameras can be mixed in the same chain. Due to difference in power consumption, one Arqus camera can be interchanged by two Miquis cameras and vice versa.

## Supported combinations per Power kit

---

4x Arqus + 2x Miquis

---

3x Arqus + 4x Miquis

---

2x Arqus + 6x Miquis

---

1x Arqus + 8x Miquis

## Adding video cameras

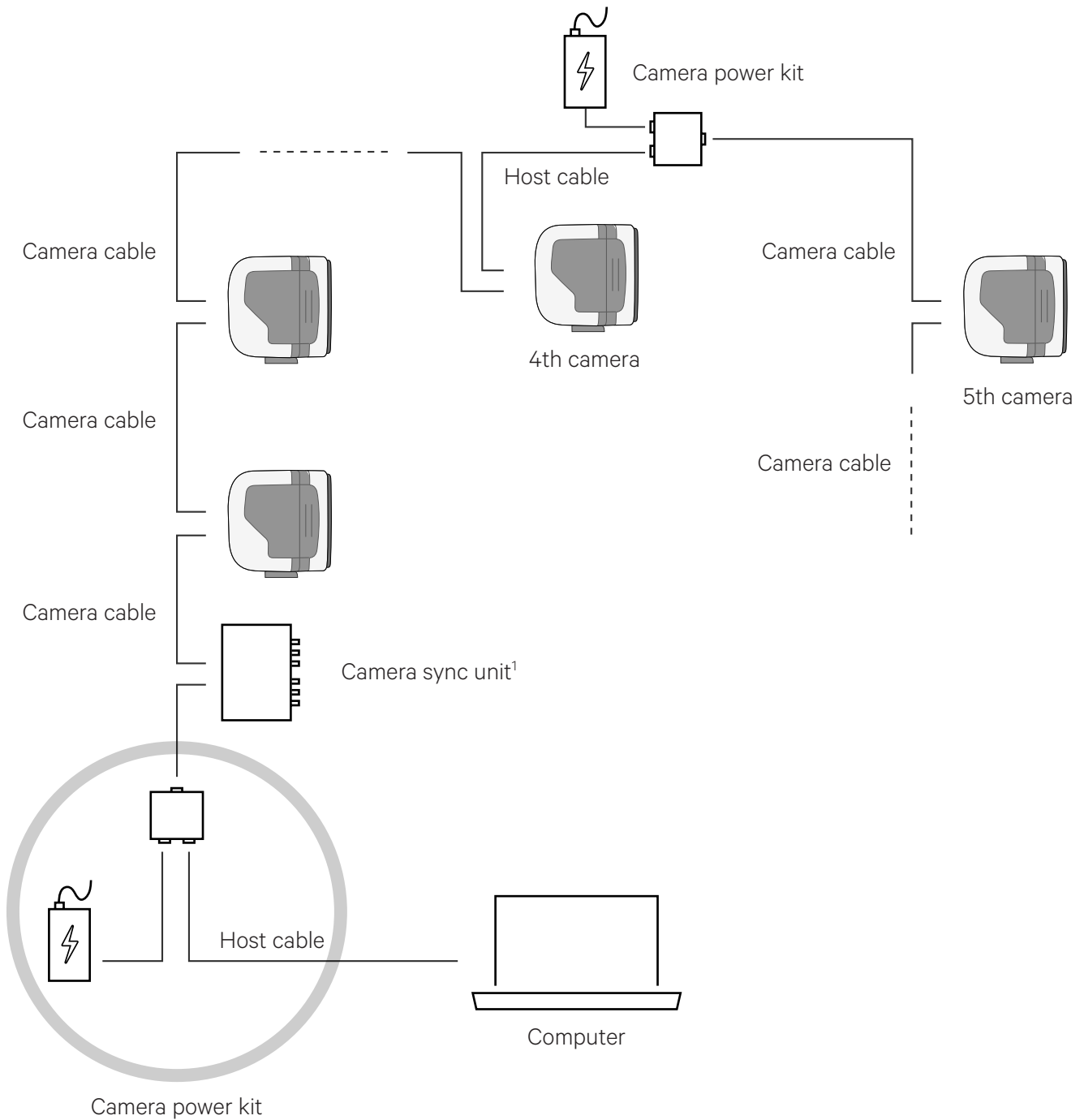
Power consumption wise, a Miquis can be swapped out for a Miquis Hybrid or Miquis Video. Due to bandwidth requirements however, it's recommended to limit the number of video cameras in a chain to a maximum of two video cameras.

If more video cameras are needed, they should be added in a separate chain and joined through a network switch.

**Important:** If you need more than three video cameras, the faster 10 Gigabit switch is required.

<sup>1</sup> In addition to the number of cameras specified by the max chain size, you can include a single Camera sync unit without reducing the number of cameras in the chain.

# Arqus



## EQUIPMENT LIST

$n$ : Arqus cameras

$n$ : Camera cable Art 410820/2/3/4

1 per 5 cameras: Power kit Art 410800/1/2 (EU / UK / US)

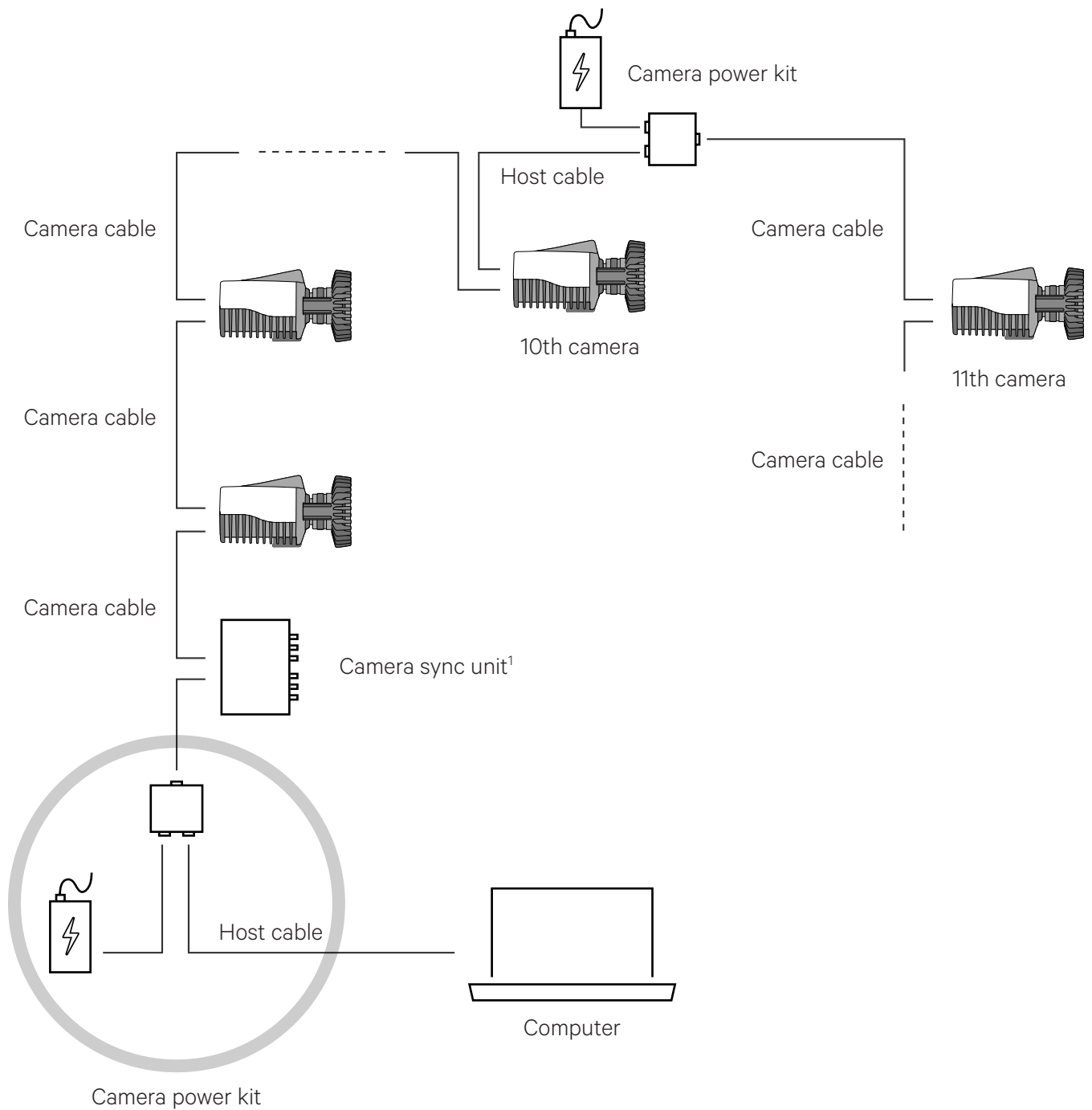
0 – 1: Camera sync unit<sup>1</sup> Art 410850

0 – 1: Gigabit Ethernet switch<sup>2</sup> Art 170520/4/5 (EU / US / UK)

<sup>1</sup> Required for synchronisation with external hardware.

<sup>2</sup> Required for systems with more than 20 cameras.

# Miquis



## EQUIPMENT LIST

$n$ : Miquis cameras

$n$ : Camera cable Art 410820/2/3/4

1 per 10 cameras: Power kit Art 410800/1/2 (EU / UK / US)

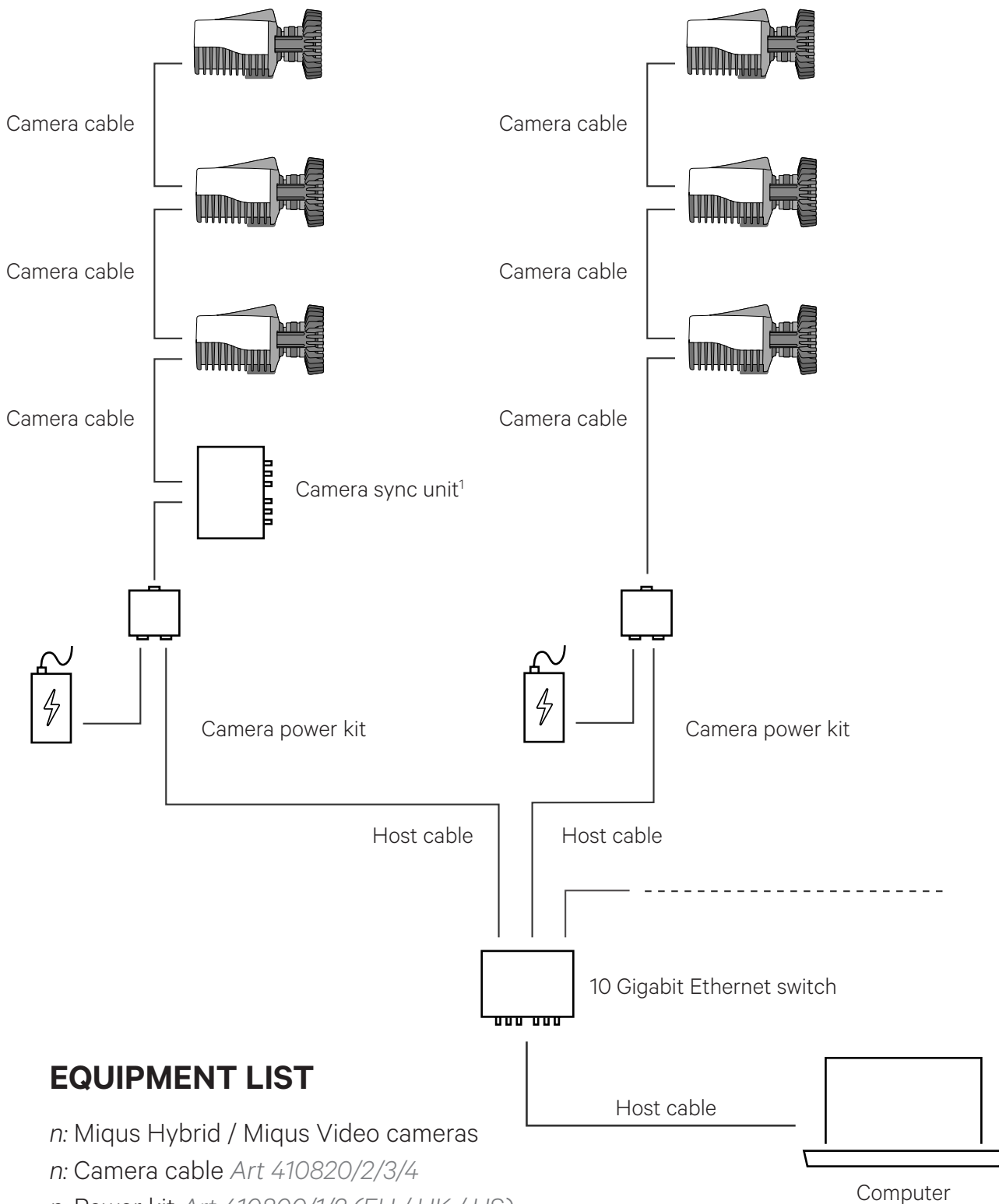
0 – 1: Camera sync unit<sup>1</sup> Art 410850

0 – 1: Gigabit Ethernet switch<sup>2</sup> Art 170520/4/5 (EU / US / UK)

<sup>1</sup> Required for synchronisation with external hardware.

<sup>2</sup> Required for systems with more than 20 cameras.

# Miqus Hybrid / Miqus Video



## EQUIPMENT LIST

*n*: Miqus Hybrid / Miqus Video cameras

*n*: Camera cable Art 410820/2/3/4

*n*: Power kit Art 410800/1/2 (EU / UK / US)

0 – 1: Camera sync unit<sup>1</sup> Art 410850

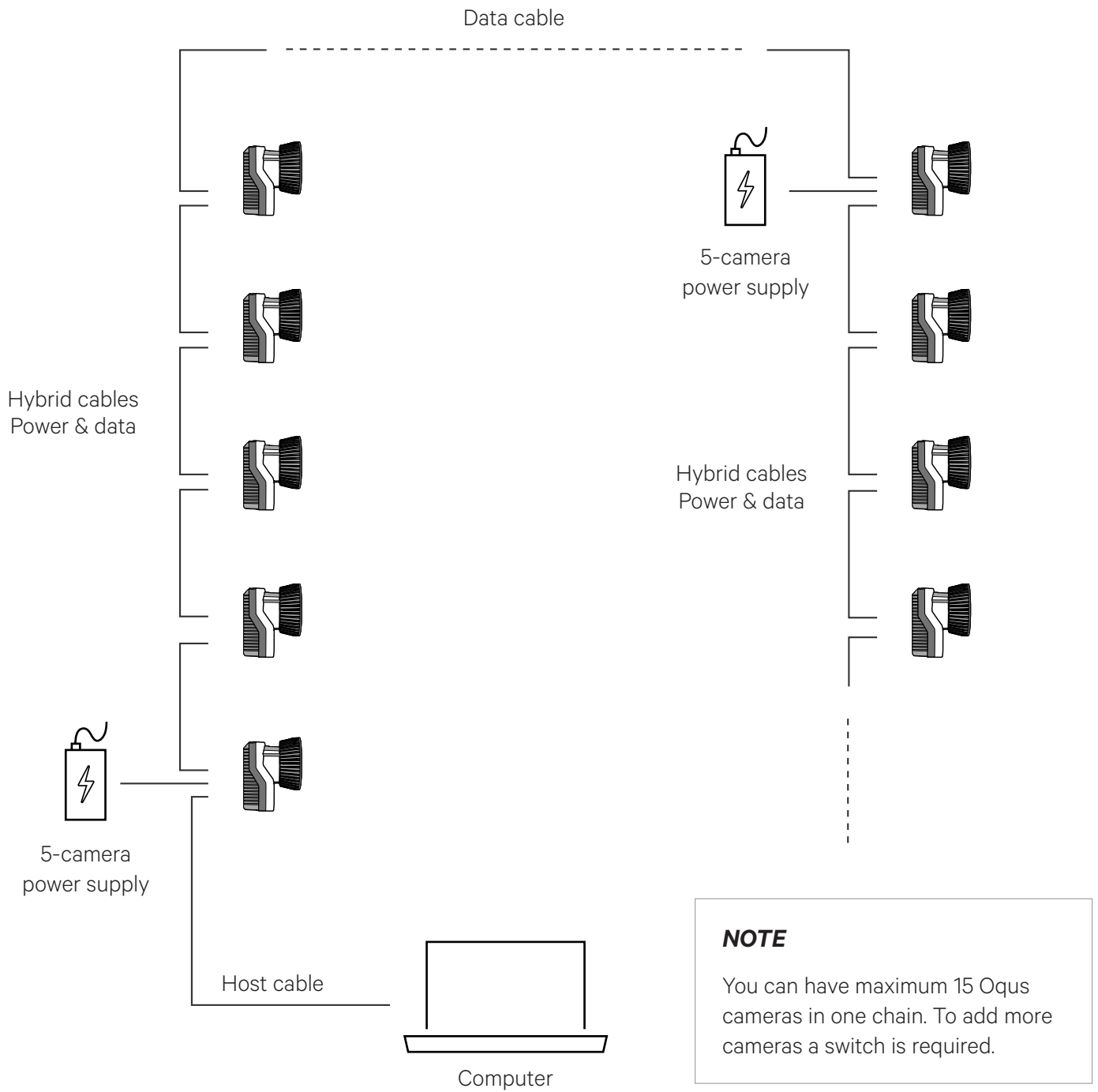
0 – 1: 10 Gigabit Ethernet switch<sup>2,3</sup> Art 170522/3 (EU / US)

<sup>1</sup> Required for synchronisation with external hardware.

<sup>2</sup> Required for systems with more than 3 video cameras.

<sup>3</sup> The 10 Gbit switch requires a 10 Gbit network card.

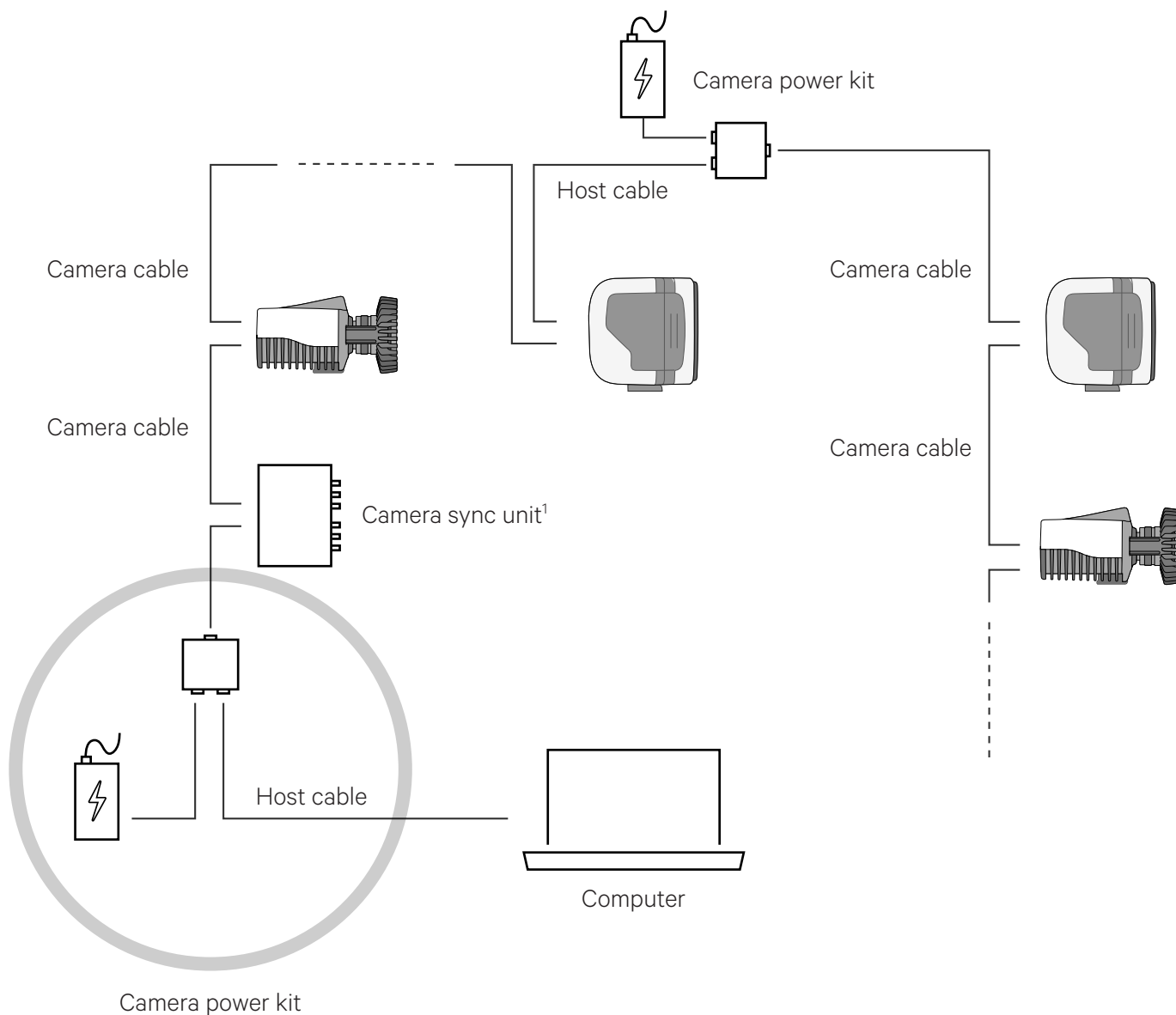
# Oqus



# Arqus and Miquis (mixed)

For each power adapter, you can power one of the following combinations:

- 4x Arqus + 2x Miquis
- 3x Arqus + 4x Miquis
- 2x Arqus + 6x Miquis
- 1x Arqus + 8x Miquis



## EQUIPMENT LIST

*n*: Arqus / Miquis cameras

*n*: Camera cable Art 410820/2/3/4

1 per 5 – 10 cameras: Power kit Art 410800/1/2 (EU / UK / US)

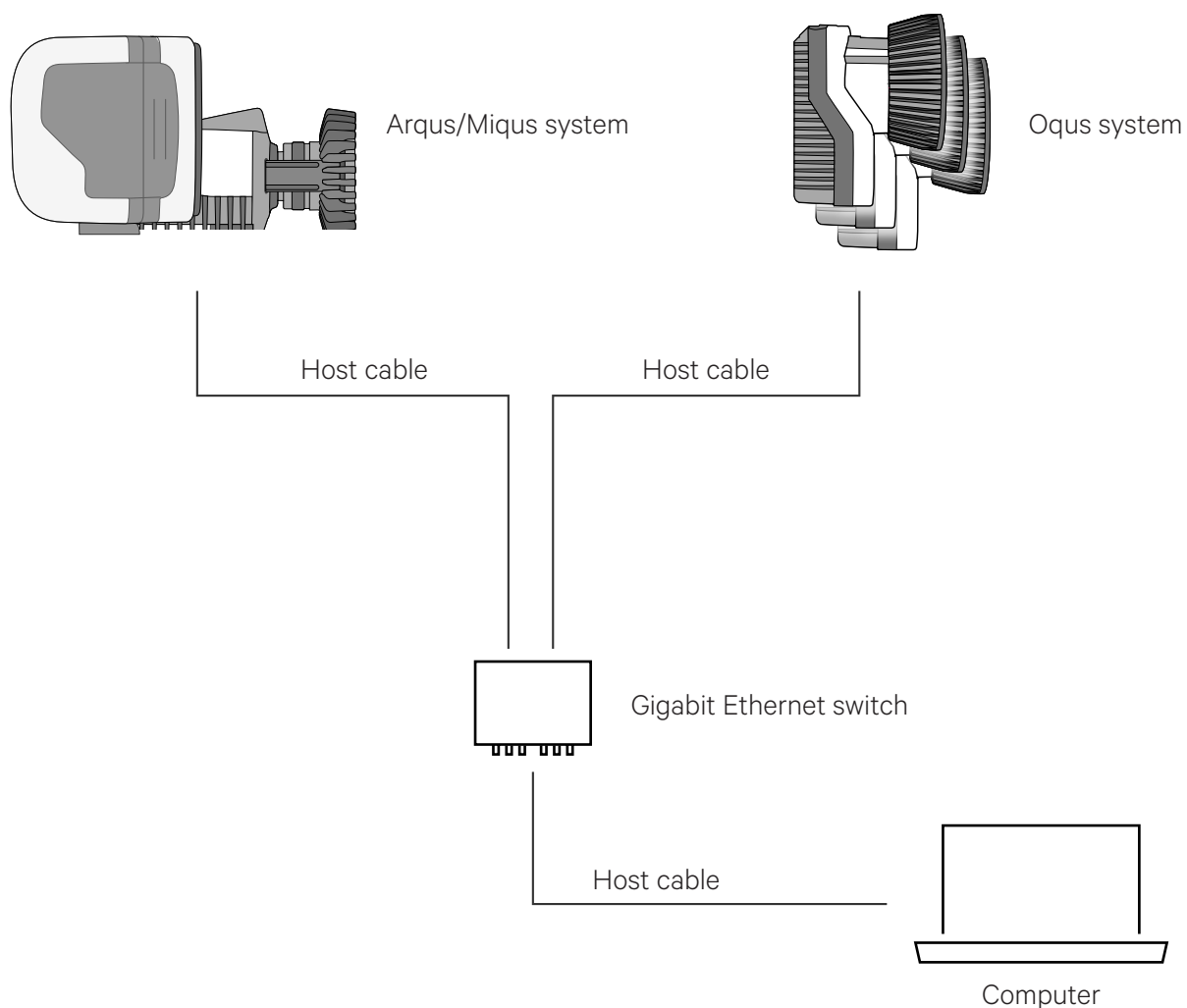
0 – 1: Camera sync unit<sup>1</sup> Art 410850

0 – 1: Gigabit Ethernet switch<sup>2</sup> Art 170520/4/5 (EU / US / UK)

<sup>1</sup> Required for synchronisation with external hardware.

<sup>2</sup> Required for systems with more than 20 cameras.

# Arqus/Miquis and Oqus (mixed)



## EQUIPMENT LIST

*n*: Arqus / Miquis / Oqus cameras

*n*: Camera cable Art 410820/2/3/4

*n*: Power kit Art 410800/1/2 (EU / UK / US)

0 – 1: Camera sync unit<sup>1</sup> Art 410850

1: Gigabit Ethernet switch Art 170520/4/5 (EU / US / UK)

<sup>1</sup> Required for synchronisation with external hardware.