**SAYA’s head-eye coordination system**

- Correspondence of image-width and angle

  - The angle within 335 - 359 [deg] or 0 - 25 [deg] is input
    - a) If the angle within 0 - 25 [deg] is input, head and eyes move to right side.
    - b) If the angle within 335 - 359 [deg] is input, head and eyes move to left side.

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**SAYA’s head-eye coordination system**

- Correspondence of image-width and angle

  - Extracted face area
    - “20” is input
  
  - “340” is input

**ATTENTION!!** : If “1000” is input, head and eyes move to initial position.
SAYA’s head-eye coordination system

Coordination of head and eye

The input angle is divided to head’s and eye’s angle.

a) If “20” is input,
- Head’s angle: 10 [deg]
- Eye’s angle: 10 [deg]

b) If “340” is input,
- Head’s angle: 350 [deg] (-10 [deg])
- Eye’s angle: 350 [deg] (-10 [deg])

ATTENTION!!: These angle are relative angle from current position.

SAYA’s head-eye coordination system

Movement-limitation in absolute angle

The relative angle is converted to the absolute angle.
The following is movement limitation of head and eye in absolute angle