

1. Operational Description

1-1. Power off

- Operating state(battery) : Power Off
- Power off : 1mA
- Frequency : NONE

1-2. Voice Recoder mode Stand-by

- Operating state : voice recorder mode stand-by
- Image sensor, voice DSP, Flash memory :
power-down & stand-bymode & image sensor clock off
- Frequency : 8MHz, 100Hz, 48MHz, 40.96MHz

1-3. Voice Recording mode

- Operating state(battery) : recording mode
- Image sensor Power-down & clock off
- Voice DSP operating :
voice signal -> codec convertor -> Audio signal compress
-> micro controller(30m sec : flash memory wite)
- Frequency : 8MHz, 100Hz, 48MHz, 40.96MHz

1-4. Voice Playing mode

- Operating state : playing mode
- Image sensor Power-down & clock off
- Voice Play Operating :
Micro Controller(30m sec :flash memory write) -> flash read
-> codec (electrical transmission) -> speaker (audio out)
- Frequency : 8MHz, 100Hz, 48MHz, 40.96MHz

1-5. Camera mode stand-by

- Operating state : camera stand-by mode
- Voice DSP : Power-down & stand-by
- Image sensor : stand-by
- Image sensor pixel data : shutter button select ->
flash memory(storage)
- Frequency : 8MHz, 100Hz, 48MHz, 27MHz

1-6. Camera photographing

- Operating state : camera stand-by mode
- Voice DSP : power-down stand-by
- Image sensor pixel data : shutter button select
- > flash memory(storage)
- Frequency : 8MHz, 100Hz, 48MHz, 27MHz

1-7. USB upload

- Operating state : PC & DVC100 interface mode(
- Voice DSP : power-down stand-by
- Image sensor : power down mode
- USB upload : micro controller -> flash memory read -> usb controller(electrical transmission)-> pc down(storage)
- Frequency : 8MHz, 100Hz, 48MHz, 27MHz