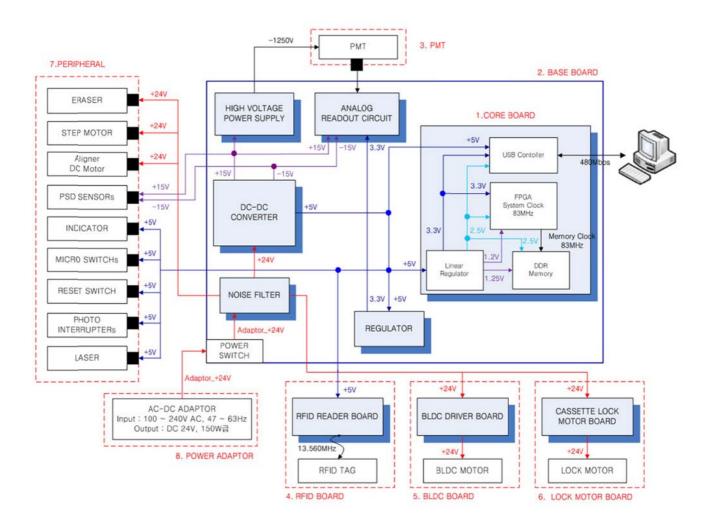
System Description



1. CORE BOARD

- Control of all peripherals for acquisition of image data.
- Transmit the image data to PC via USB communication.

2. BASE BOARD

- Supply several kinds of power to peripherals.
- Convert analog data of PMT to digital data.
- Drivers for peripherals.

3. PMT(PhotoMultiplier Tube)

- High sensitive detector of light.
- Detect the light from IP (Imaging Plate).

4. RFID BOARD

- Read the information of cassette.
- Read the information of unit identity.
- Transmit the information to COREBOARD.

5. BLDC BOARD

- BLDC motor driver.
- Control BLDC motor to maintain the same speed.

6. LOCK MOTOR BOARD

- DC motor driver.
- Control DC motor to hold and release cassettes.

7. PERIPHERAL

- ERASER: White LED array for erasing existing information in the IP(Imaging Plate).
- STEP MOTOR
- Aligner DC Motor: Adjust laser beam alignment.
- PSD Sensors: PSD (Position Sensitive Detector). Detect the laser beam.
- INDICATOR: Display the status of unit.
- MICRO SWITCHs: Detect the insertion of cassettes.
- RESET SWITCH: System reset button.
- PHOTO INTERRUPTERS: Make STEP MOTOR have a movement restrictions.
- LASER

8. POWER ADAPTER

- Generate the main power of system.
- Input: 100 240 Vac
- Output: 24V DC, max. 6.25A