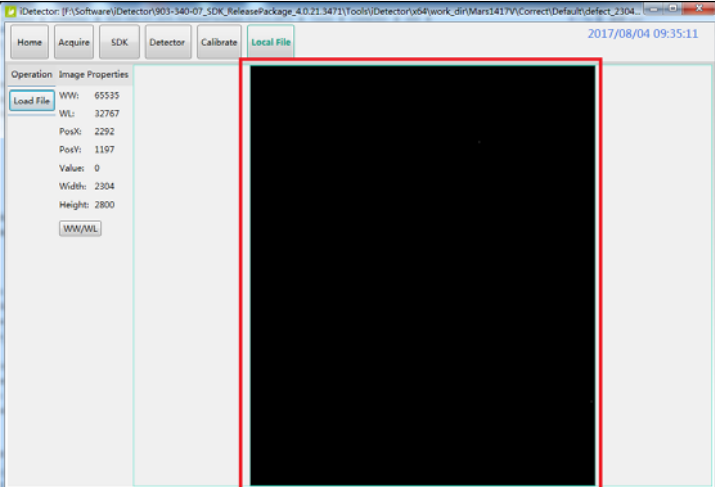
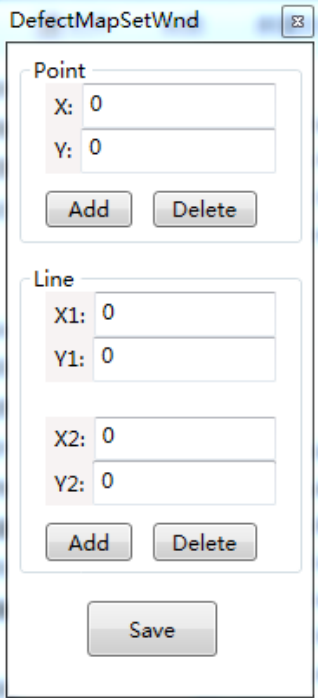
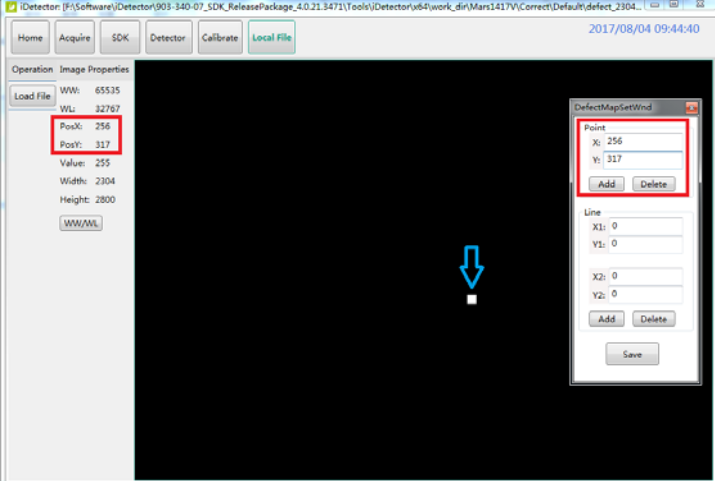


4.6.1. Defect Template Check

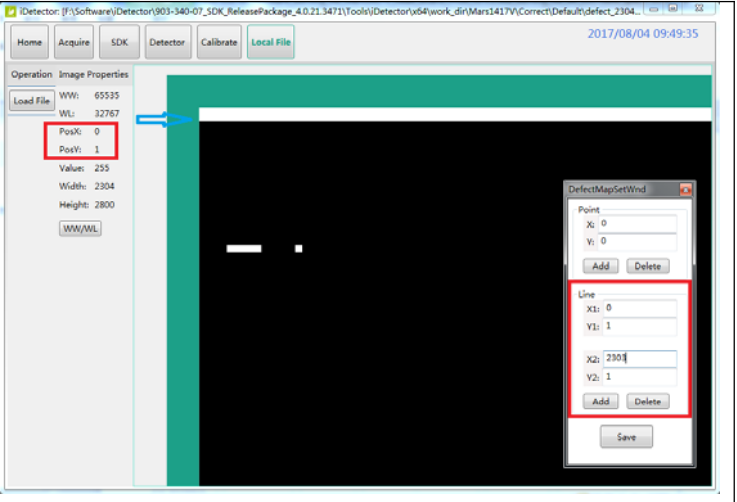
| | |
|--|--|
| Click “LoadFile” on “LocalFile” page | |
| Choose the specified defect template, and click “Open” | |
| The defect template will showed on the UI | |

4.6.2. Defect Template Modification

| | |
|---|--|
| <p>Open the specified defect template</p> |  |
| <p>The defect management dialog box will be showed</p> |  |
| <p>Find the pixel that needs to be managed, type the coordinate of the pixel and click “Add”, the information will be added to the template</p> <p>If click “Delete”, the information will be deleted</p> <p>Click “Save”</p> |  |

It is similar to manage the defect pixel, If user need to add the defect line, type the coordinate of the line and click “Add”

If the information needs to be deleted, click “Delete”

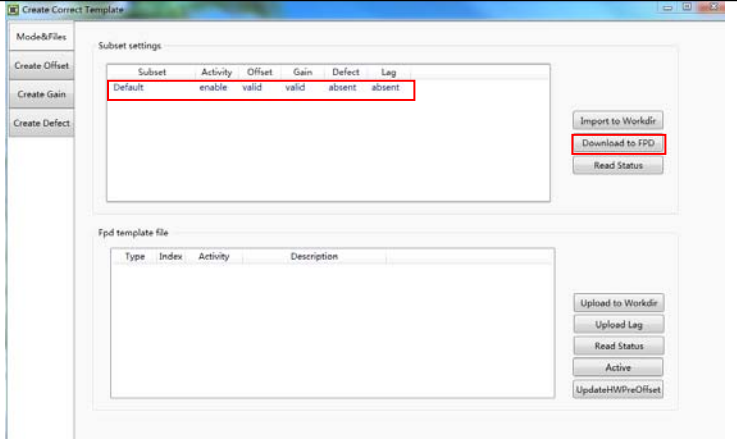


4.7. Correction and Calibration Management

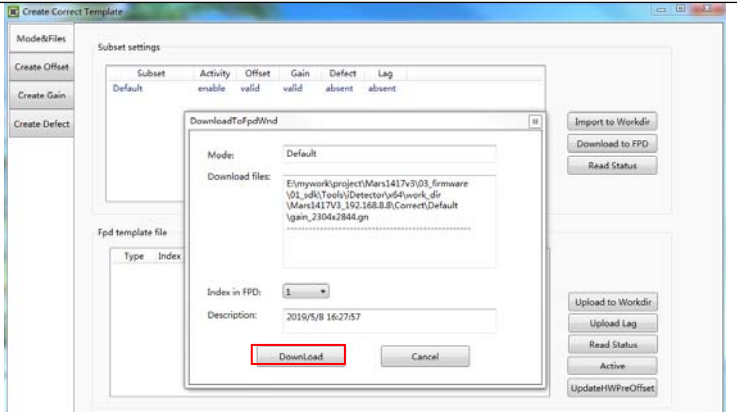
4.7.1. Correction and Calibration template synchronization

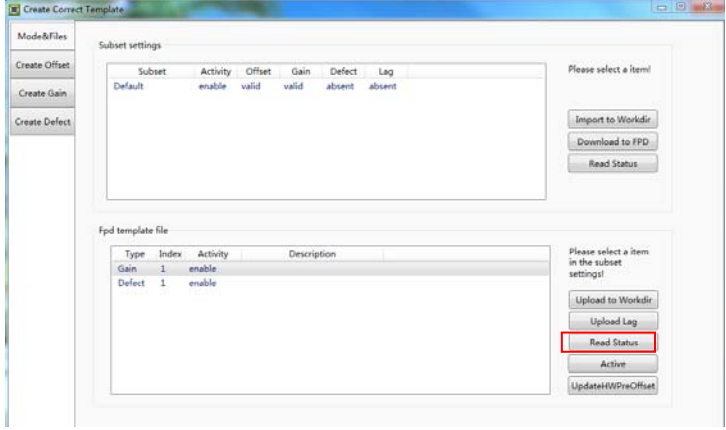
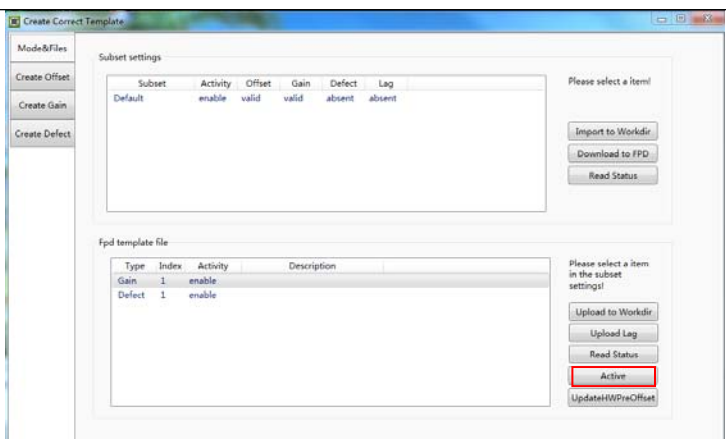
Panel supports correction and calibration template storage. So template in panel could be uploaded to Workstation, and template in Workstation could also be downloaded to panel.

After generating the offset ,gain and defect templates, select the templates and click “Download to FPD”



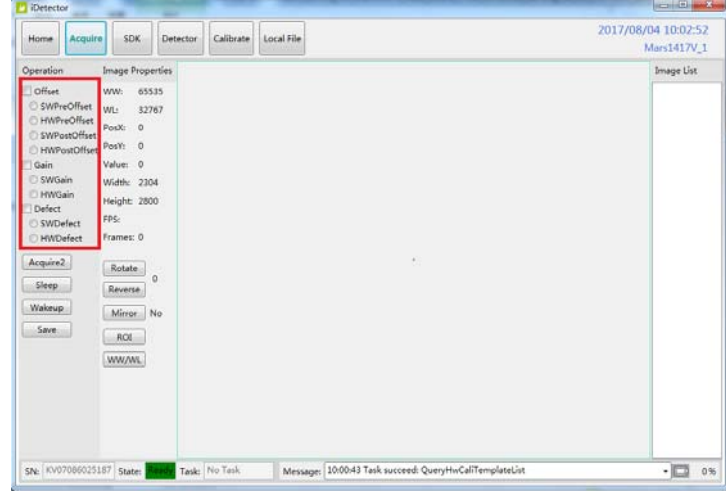
Click “DownLoad”

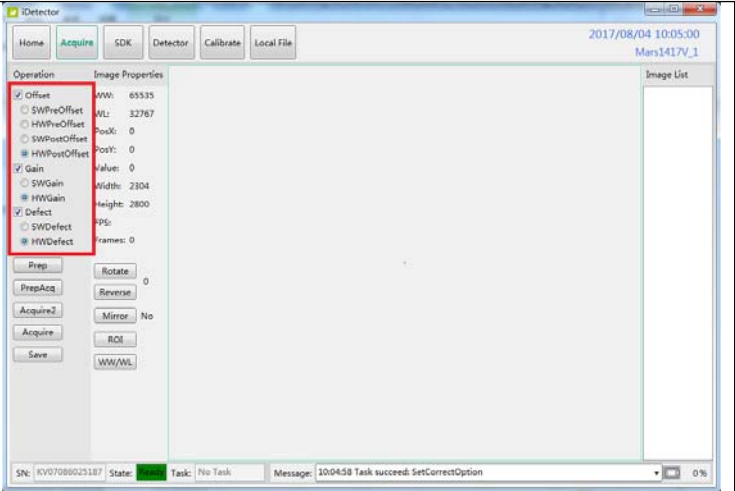
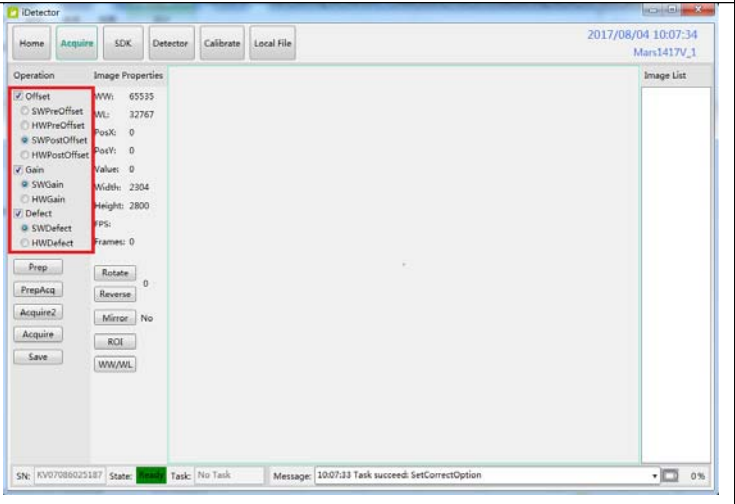


| | |
|---|---|
| <p>Click “Read Status”</p> |  |
| <p>If the activity shows disenable, please select the one and click “Active” to enable it</p> |  |

4.7.2. Correction and Calibration management

Panel supports two ways to do correction and calibration. Software Correction and Calibration defines the scenario that Workstation completes all correction and calibration. If panel complete all correction and calibration by itself, it is named as Hardware Correction and Calibration.

| | |
|--|--|
| <p>User can set the calibration method on “Acquire” page</p> |  |
|--|--|


| | |
|---|---|
| Choose “HWPostOffset”, “HWGain”, “HWDefect”, the hardware-based calibration is on |  |
| Choose “SWPostOffset”, “SWGain”, “SWDefect”, the software-based calibration is on |  |





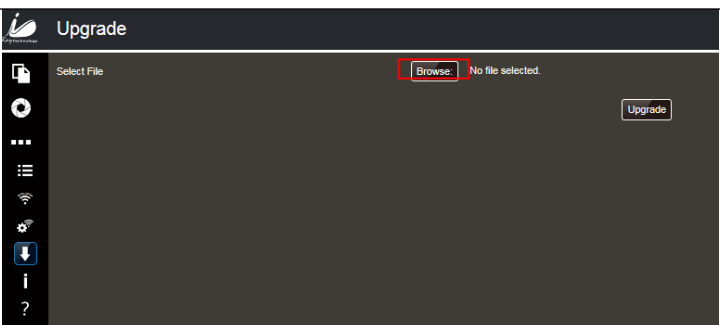
4.8. Firmware Update

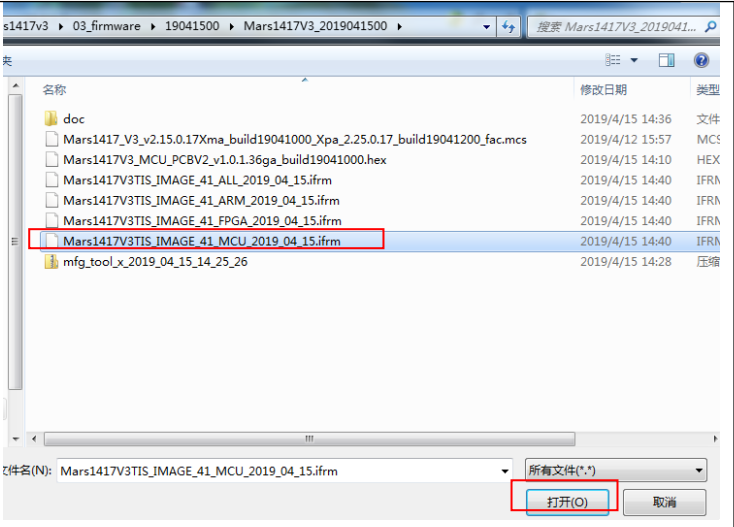
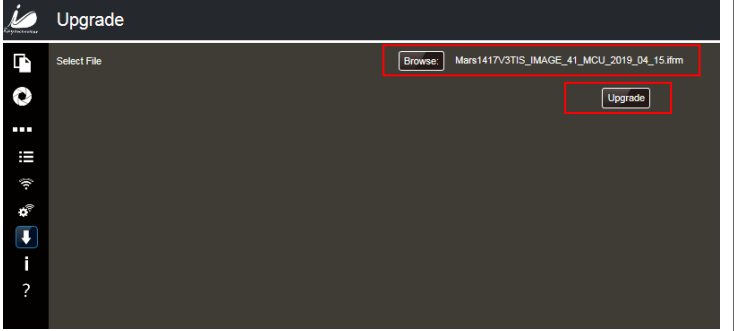
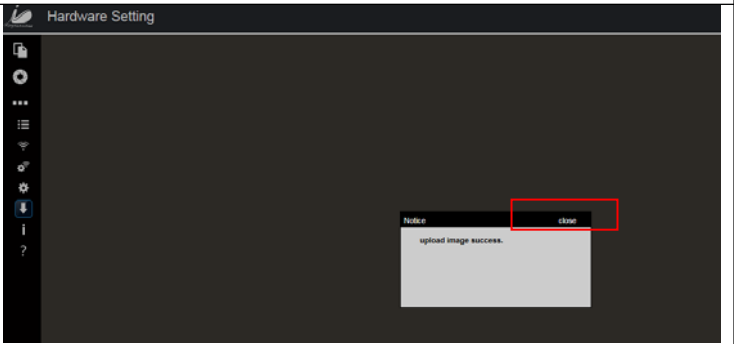
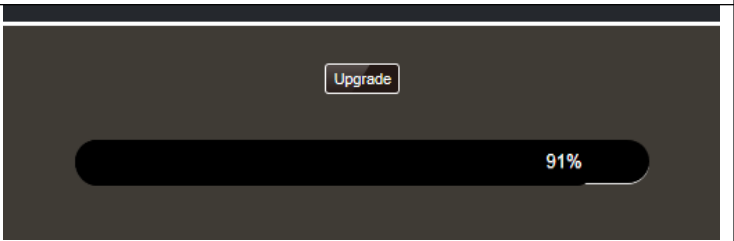

Panel supports the use of the Web way to upgrade the firmware, if a user needs to update the firmware, please complete the following steps.

Before update, please make sure that the battery capacity is more than 80% or the DC power is connected.



4.8.1. MCU Update

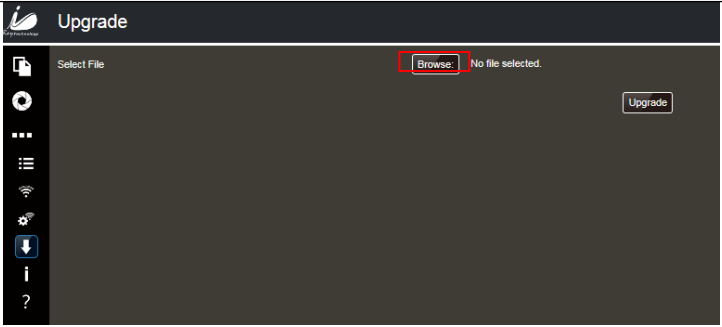
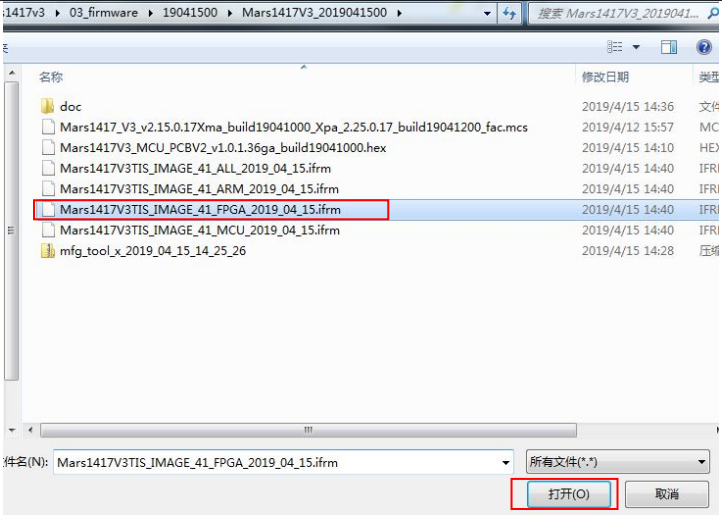
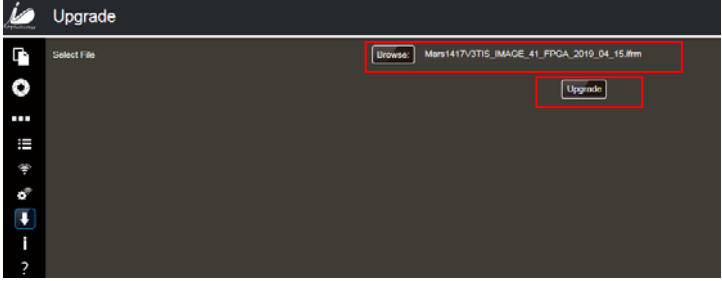
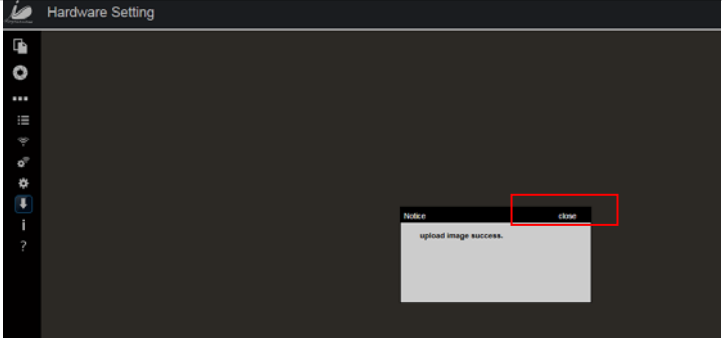
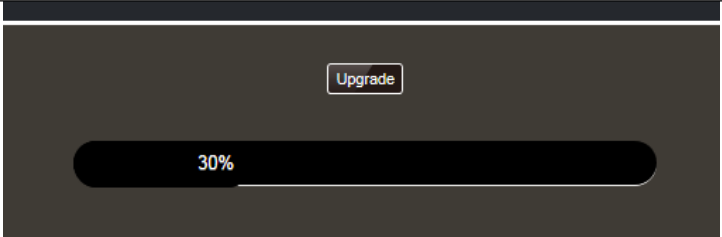
| | |
|---|--|
| Connect the panel to PC | / |
| Open a browser, and type “192.168.8.8” in the search bar, then click the “Enter” button |  |

| | |
|--|---|
| <p>User name: admin Password: iray Click “login”</p> |  <p>The screenshot shows the login interface of the iRay Smart Imaging Viewer(1.0). At the top left is the iRayTechnology logo. Below it, the title 'iRay Smart Imaging Viewer(1.0)' is displayed. There are two input fields: 'User Name' with 'admin' entered and 'Password' with 'iray' entered. A green 'login' button is at the bottom. The tagline 'IMAGING THE FUTURE' is at the very bottom. The background image shows a hand holding a smartphone displaying a hand scan.</p> |
| <p>Click “”</p> |  <p>The screenshot shows the 'Getting Image' screen. On the left is a vertical sidebar with icons for file, camera, and a menu of three dots, which is highlighted with a red box. The main area shows a grayscale X-ray image of a hand in an 'OK' gesture. A 'Back to Image List' button is at the bottom right.</p> |
| <p>Click “Upgrade”</p> |  <p>The screenshot shows the 'Advanced' settings screen. It has a sidebar with icons for file, camera, and menu. The main area has sections for 'System Info', 'WiFi Config', and 'About'. In the 'WiFi Config' section, there is an 'Upgrade' button highlighted with a red box. Other buttons include 'WiFi Status' and 'Help'.</p> |
| <p>Click “Browse”</p> |  <p>The screenshot shows the 'Upgrade' screen. It has a sidebar with icons for file, camera, menu, and a download icon. The main area has a 'Select File' section with a 'Browse' button highlighted by a red box. To the right of the 'Browse' button, it says 'No file selected.' An 'Upgrade' button is at the bottom right.</p> |

| | |
|---|--|
| Find the MCU file, select it and open it |  |
| The selected file name will be displayed on the interface. Click “Upgrade” |  |
| Click “close” |  |
| There will show the progress bar. |  |
| If upgrade success, the interface as shown in the picture on the right will be displayed. Otherwise, it means failure. |  |

4.8.2. FPGA Update




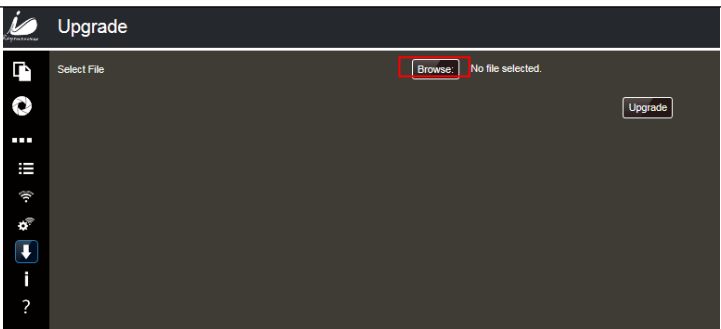
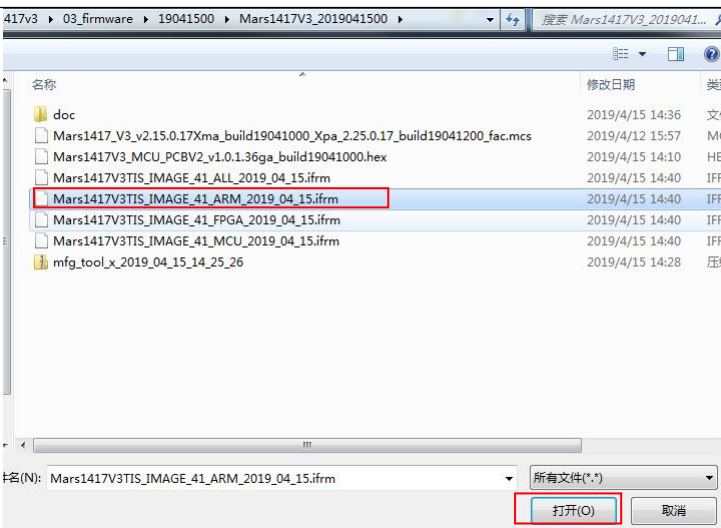
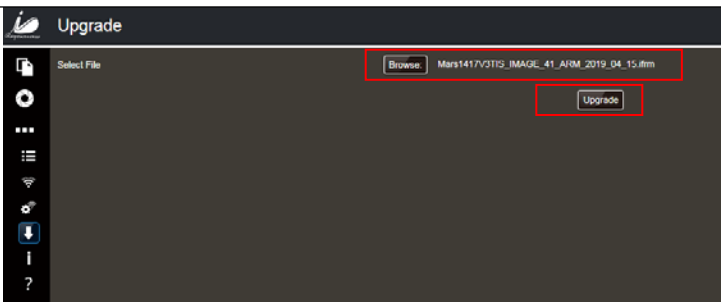
| | |
|---|--|
| Connect the panel to PC | / |
| Open a browser, and type “192.168.8.8” in the search bar, then click the “Enter” button |  |
| User name: admin Password: iray Click “login” |  |
| Click “  ” |  |
| Click “Upgrade” |  |

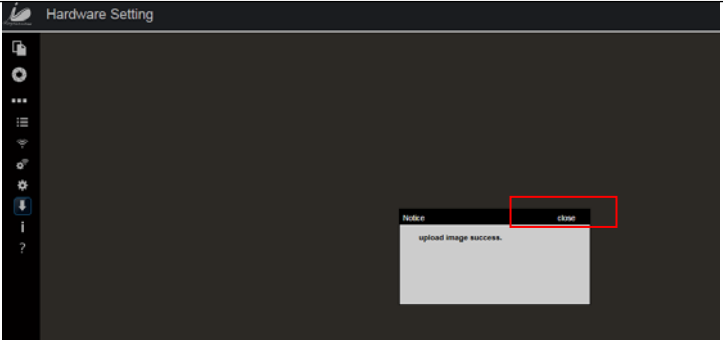
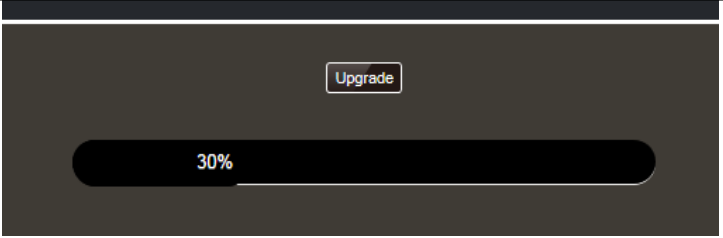

| | |
|---|--|
| Click “Browse” |  |
| Find the FPGA file, select it and open it |  |
| The selected file name will be displayed on the interface. Click “Upgrade” |  |
| Click “close” |  |
| There will show the progress bar. |  |

| | |
|--|--|
| <p>If upgrade success, the interface as shown in the picture on the right will be displayed.</p> <p>Otherwise, it means failure.</p> |  |
|--|--|

4.8.3. ARM Update

| | |
|--|--|
| <p>Connect the panel to PC</p> | <p>/</p> |
| <p>Open a browser, and type “192.168.8.8” in the search bar, then click the “Enter” button</p> |  |
| <p>User name: admin Password: iray Click “login”</p> |  |

| | |
|---|--|
| Click “  ” |  |
| Click “Upgrade” |  |
| Click “Browse” |  |
| Find the ARM file, select it and open it |  |
| The selected file name will be displayed on the interface. Click “Upgrade” |  |

| | |
|--|---|
| Click “close” |  |
| There will show the progress bar. |  |
| If upgrade success, the interface as shown in the picture on the right will be displayed. Otherwise, it means failure. |  |

4.8.4. ALL FIRMWARE Update

All of the firmware (MCU, FPGA, and ARM) can be upgraded at the same time, if the file selected is like “Mars1417V3TIS_IMAGE_41_ALL_2019_04_15.ifm”. And the upgrade steps please refer the steps above.

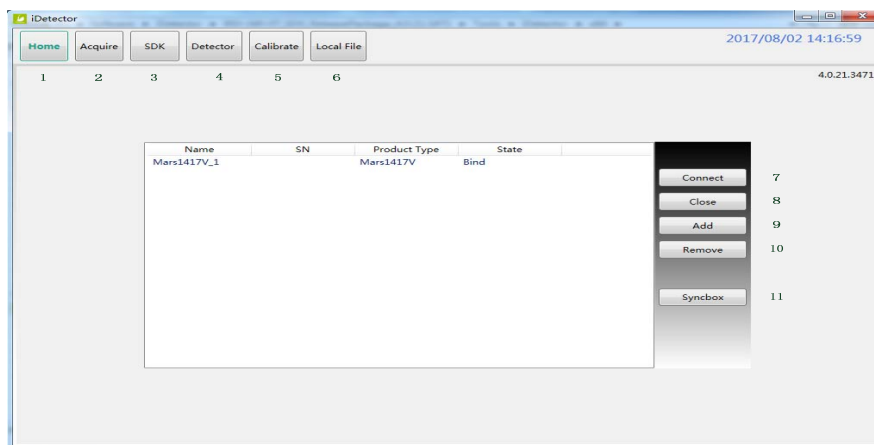
4.9. Short cut

iDetector supports some shortcuts as follows:

- Double-click the left mouse button, the image displayed in center and with maximum size.
- Double-click the right mouse button, the window level and width adjusted to WL: 32767/WW: 65535.
- Drag the left mouse button, drag the image displayed.
- Lateral-drag the right mouse button to adjust the window width, and vertical-drag the right mouse button to adjust the window level.
- F3 Key: Quickly adjust the image window width and window level.

4.10. Software

4.10.1. Main GUI



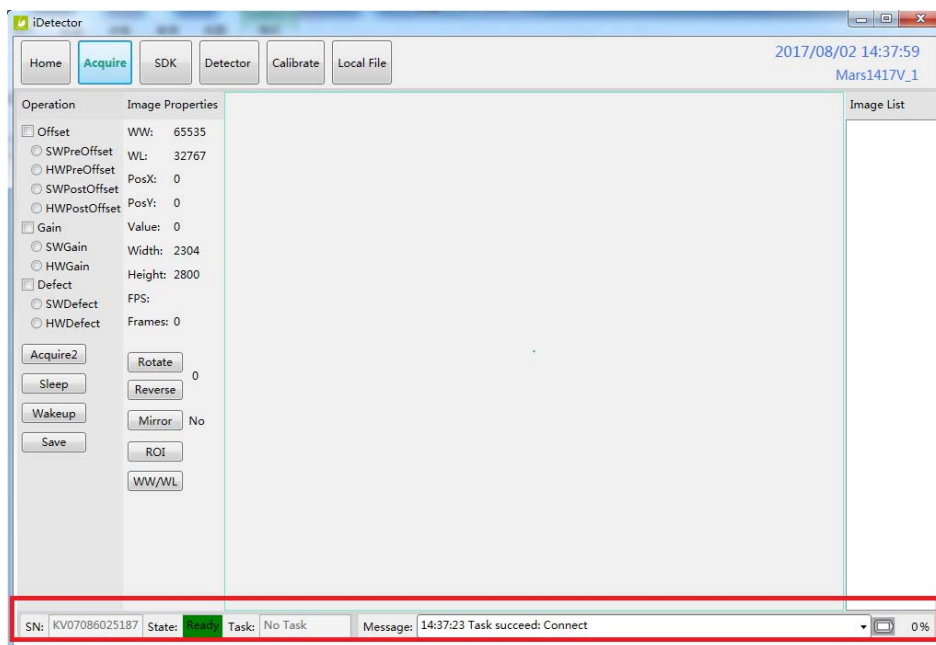
iRay provides test tools, such as iDetector for testing the basic performance of detector. It can connect the detector, acquire image, image correct and calibrate.

Function description of regions and buttons within the main window as follows:


| | | |
|----|------------|---|
| 1 | Home | Home page, shows the list of the detectors |
| 2 | Acquire | Acquire images, free for use after connecting the detector |
| 3 | SDK | Configure UI for SDK, free for use after connecting the detector |
| 4 | Detector | Configure UI for detector, free for use after connecting the detector |
| 5 | Calibrate | Calibration UI, for generation and management of the calibration template |
| 6 | Local File | Image management, free for use at any time |
| 7 | Connect | Button for connecting the detector |
| 8 | Close | Button for disconnecting the detector |
| 9 | Add | Button for add the instance for one detector |
| 10 | Remove | Button for delete the instance for one detector |
| 11 | Syncbox | Management for syncbox |

4.10.2. Message Box

4.10.2.1. Status Box



Status box defines the current status of panel.

| | |
|---|--|
| SN | Serial Number of the detector |
| Status | Status of the detector, busy or ready |
| Task | The current task being executed |
| Message | Information |
|  0 % | Remaining power of the battery, showed as percentage |

4.10.2.2. Progress Bar

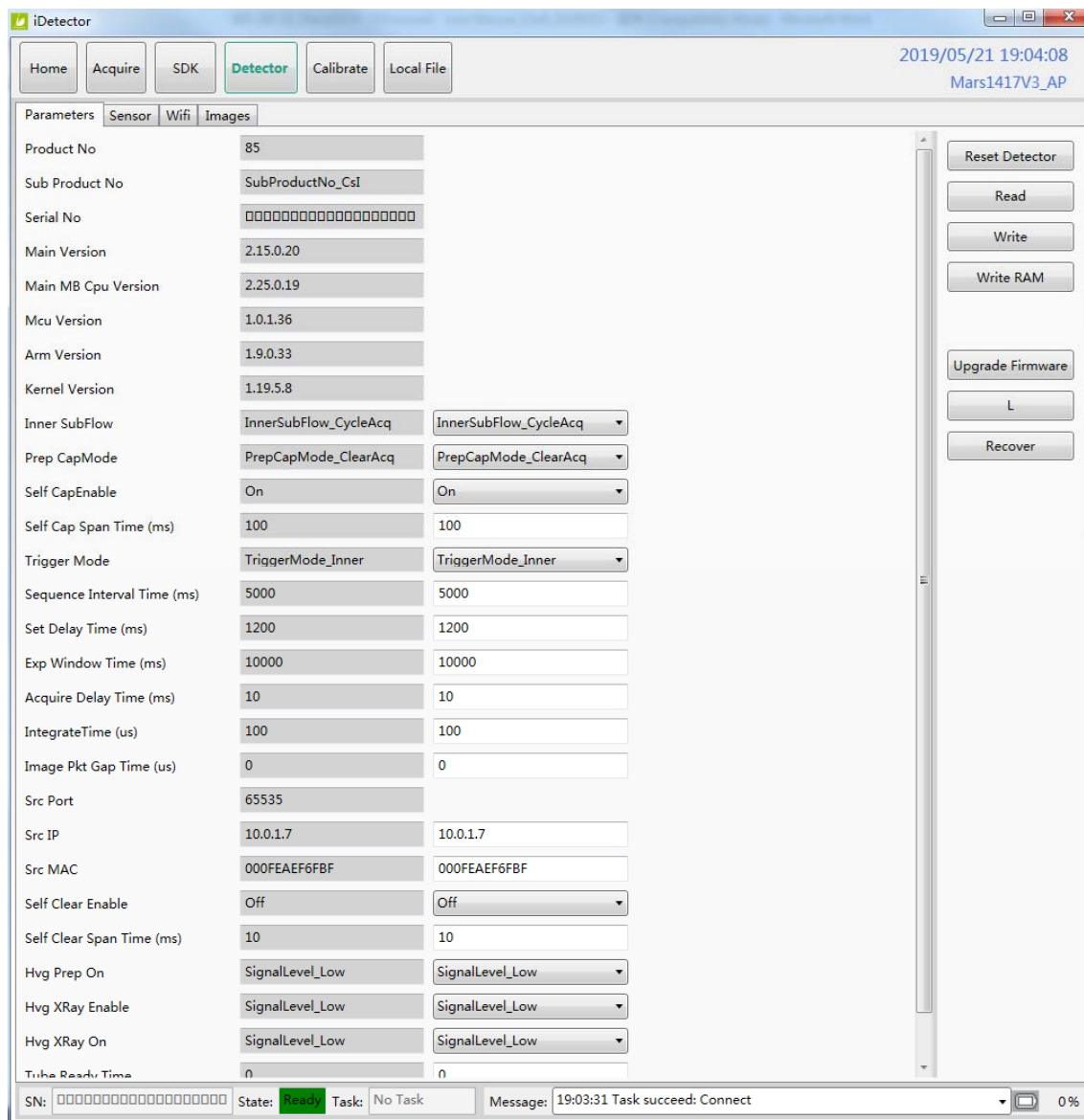
Progress Bar defines as following.



If progress bar is Green when shooting X ray, image quality is acceptable, otherwise image quality would degrade.

4.10.3. Configuration GUI

4.10.3.1. General Settings

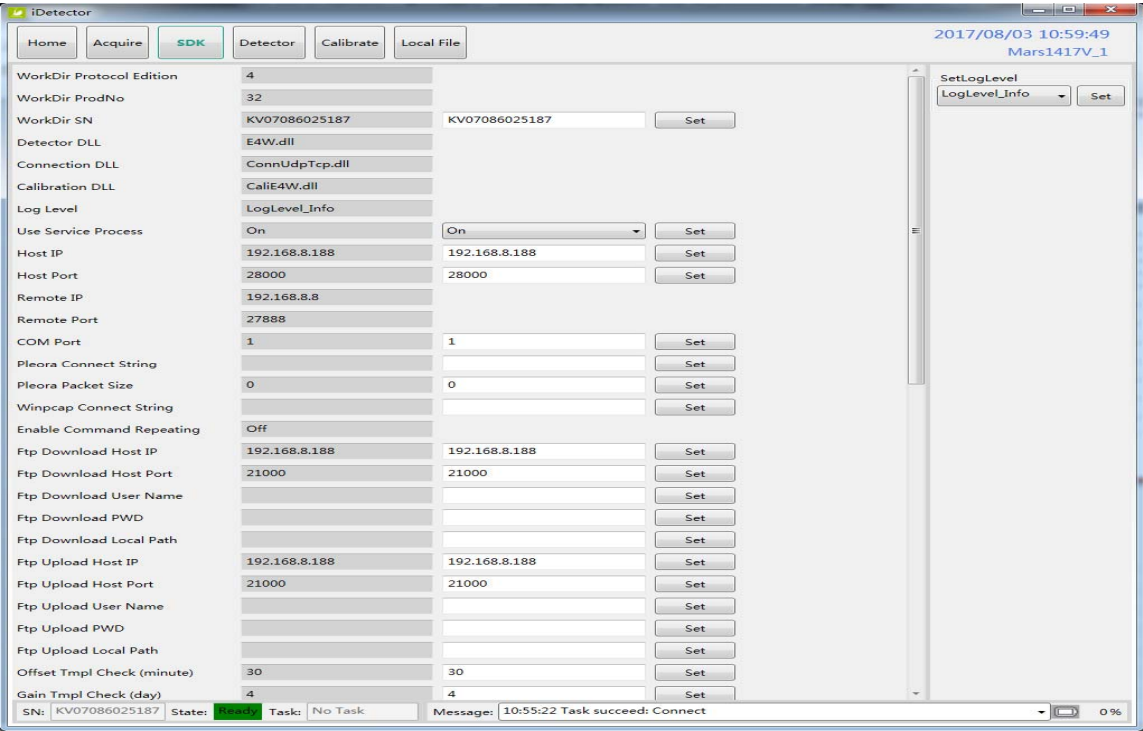


Except the following parameters, the value should not be modified for other parameters.

| Description | | Modify |
|---------------------|--------------------------------------|--------|
| Product No | Type number of the detector | NO |
| Sub Product No | Sub-type of the detector | NO |
| Serial No | Serial number of the panel | NO |
| Main Version | Version of the firmware of Main FPGA | NO |
| Main MB Cpu Version | Version of the MB Cpu of Main FPGA | NO |
| MCU Version | Version of the firmware of MCU | NO |
| Arm Version | Version of the App of ARM | NO |
| Kernel Version | Version of the Kernel of ARM | NO |
| Inner Subflow | Sub work-flow | Yes |

| | | |
|------------------------|---|-----|
| Prep CapMode | Reserved | Yes |
| Self CapEnable | Reserved | YES |
| Self Cap Span Time | Should not be modified, and keep the original value | YES |
| Trigger Mode | Trigger mode | YES |
| Sequence Interval Time | Should not be modified, and keep the original value | YES |
| Set Delay Time | Exposure window for Freesync mode | YES |
| Exp Window Time | Exposure Window for Software/Inner mode, the value should not be large than 10s | YES |
| Acquire Delay Time | Reserved | YES |
| Integrate Time | Should not be modified, and keep the original value | YES |
| Src Port | Port number for detector | NO |
| Src IP | IP address for detector | YES |
| Src MAC | MAC address for detector | YES |
| Dest Port | Port number for PC | NO |
| Dest IP | IP address for detector | NO |
| Self Clear Enable | Related to Prep CapMode, the value should be configured as “On” if Prep CapMode is configured as PrepCapMode_ClearAcq, otherwise should be “Off” If the Trigger Mode is Software/Inner, the value should be “On” | YES |
| Self Clear Span Time | Should not be modified, and keep the original value | YES |
| Hvg Prep On | Reserved | YES |
| Hvg XRay Enable | Reserved | YES |
| Hvg XRay On | Reserved | YES |
| Tube Ready Time | Reserved | YES |
| Image Pkg Gap Time | Reserved | YES |
| Out Mode Cap Trigger | Reserved | YES |

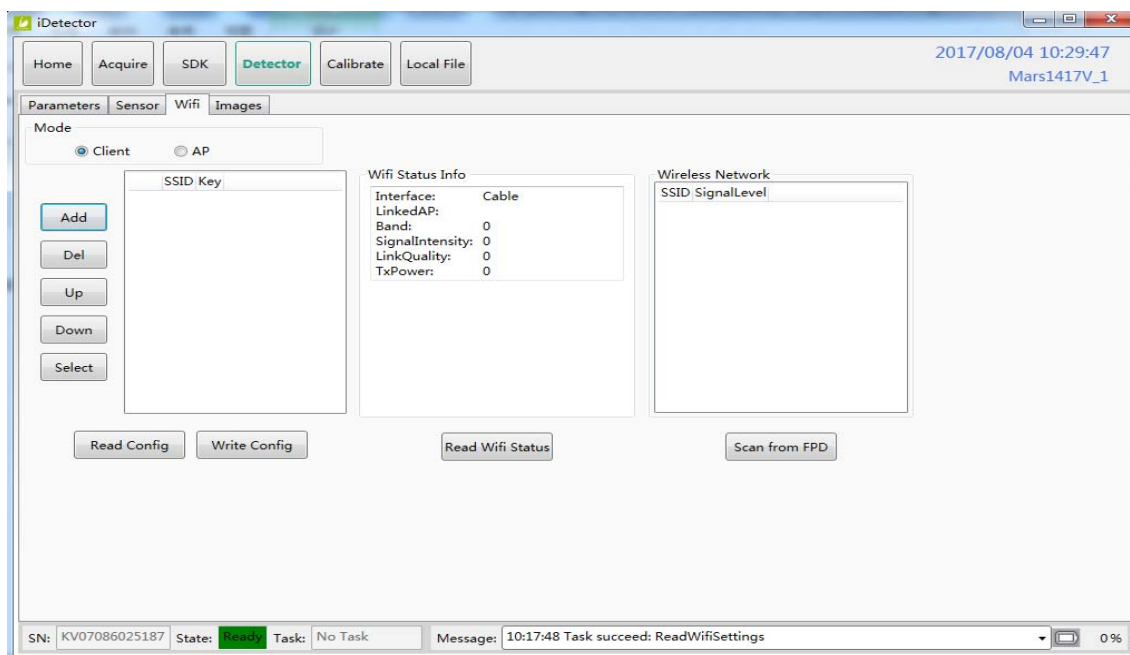
4.10.3.2. SDK Settings



Only the following parameters need to be concerned

| Description | | Modify |
|------------------------|--|--------|
| Host IP | IP Address of local workstation | YES |
| Host Port | Port of local workstation | YES |
| Ftp Download Host IP | FTP download server IP, keep the same as Host IP | YES |
| Ftp Download Host Port | FTP download server Port, keep the same as Host Port | YES |
| Ftp Upload Host IP | FTP upload server IP, keep the same as Host IP | YES |
| Ftp Upload Host Port | FTP upload server Port, keep the same as Host Port | YES |

4.10.3.3. Network Settings



| Description | | Modify |
|------------------|---|--------|
| Add | Add the information of SSID and Key of the AP | / |
| Del | Delete the information of SSID and Key of the AP | / |
| Up | Move up the AP information | / |
| Down | Move down the AP information | / |
| Select | Select the AP | / |
| Read Config | Read the parameters of the AP information when the detector is set as AP | / |
| Write Config | Write the parameters of the AP information when the detector is set as AP | / |
| Read Wifi Status | Read the wifi status of the current detector | / |
| Scan from FPD | Scan the AP | / |

4.11. List of the HAZARDOUS SITUATIONS resulting from a failure of the IT-NETWORK

- 1) The operating system is not compatibility;
- 2) Change or update the software failed;
- 3) The compatibility of the interface;
- 4) The data transfer protocol error;
- 5) The inconsistent of interface or format leads to data distortion;
- 6) The data output failed;

5. REGULATORY INFORMATION..... 83

5.1. Medical equipment safety standards..... 83

5.2. The compliance for each EMISSIONS and IMMUNITY standard or test specified by IEC60601-1-2 standard..... 84

5.3. Radio Frequency Compliance Information.....87

5.3.1. FCC Compliance.....87

5.4. Battery Safety Standards..... 88

5. Regulatory Information

5.1. Medical equipment safety standards

Medical equipment classification

| | |
|---|--|
| Type of protection against electrical shock | External electrical power source equipment Class I Equipment (medical approved adaptor) Internal electrical power source equipment (battery) |
| Degree of protection against electrical shock | Type-B applied part |
| Degree of protection against ingress of water | IPX1 |
| Mode of operation | Continuous operation |
| Flammable anesthetics | Not suitable for use in the presence of a flammable anesthetic mixture with air or with oxygen or nitrous oxide Not suitable for use in the oxygen rich environment |

Product safety standards

| | |
|---|--|
| MDD (93/42/EEC) | Medical Device Directive |
| ISO 13485:2016 | Medical devices -- Quality management systems -- Requirements for regulatory purposes |
| IEC 60601-1:2005/AMD1:2012 | Medical electrical equipment -- Part 1: General requirements for basic safety and essential performance |
| IEC 60601-1-2:2014/EN60601-1-2:2015 | Medical electrical equipment – Part 1-2: General requirements for basic safety and essential performance – Collateral standard: Electromagnetic disturbances – Requirements and tests |
| IEC 60601-2-54:2015/EN 60601-2-54:2015 | Medical electrical equipment -- Part 2-54: Particular requirements for the basic safety and essential performance of X ray equipment for radiography and radioscopy |
| IEC 62133:2012 | Secondary cells and batteries containing alkaline or other non-acid electrolytes – Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications |
| IEC 62220-1:2003 EN 62220-1:2004 | Medical electrical equipment - Characteristics of digital X-ray imaging devices - Part 1: Determination of the detective quantum efficiency |
| IEC 62304:2006/AMD1:2015 | Medical device software - Software life-cycle processes |
| IEC 62366-1:2015/IEC 62366:2007/EN 62366:2008 | Medical devices –part 1: Application of usability engineering to medical devices |
| IEC 60601-1-6:2010+A1:2013 | Medical electrical equipment - Part 1-6: General requirements for basic safety and essential performance - Collateral standard: Usability |
| EN ISO14971: 2012 | Medical device – Application of risk management to medical devices |
| ANSI/AAMI ES60601-1:2005/(R)2012+A1:2012+C1:2 | Medical electrical equipment - Part 1: General requirements for basic safety and essential performance (IEC 60601-1:2005, |

| | |
|---------------------------------------|---|
| 009/(R)2012+A2:2010/(R)2012 | MOD) |
| CAN/CSA-C22.2 No.60601-1:14 | Medical electrical equipment – Part 1: General requirements for basic safety and essential performance |
| ISO 15223-1:2016/ EN ISO 15223-1:2016 | Medical devices—Symbols to be used with medical device labels, labeling and information to be supplied—Part 1: General requirements |

5.2. The compliance for each EMISSIONS and IMMUNITY standard or test specified by IEC60601-1-2 standard

EMI Compliance Table

Emission

| Phenomenon | Compliance | Electromagnetic environment |
|----------------------------------|------------------------------|--|
| RF emissions | CISPR 11 Group 1, Class B | Professional healthcare facility environment |
| Harmonic distortion | IEC 61000-3-2 Class A | Professional healthcare facility environment |
| Voltage fluctuations and flicker | IEC 61000-3-3 Compliance | Professional healthcare facility environment |

EMS Compliance Table

Enclosure Port

| Phenomenon | Basic standard | Immunity test levels |
|--|----------------|---|
| | | Professional healthcare facility environment |
| Electrostatic Discharge | IEC 61000-4-2 | ±8 kV contact ±2kV, ±4kV, ±8kV, ±15kV air |
| Radiated RF EM field | IEC 61000-4-3 | 3V/m 80MHz-2.7GHz 80% AM at 1kHz |
| Proximity fields from RF wireless communications equipment | IEC 61000-4-3 | Refer to table “Proximity fields from RF wireless communications equipment” |
| Rated power frequency magnetic fields | IEC 61000-4-8 | 30A/m 50Hz or 60Hz |

Proximity fields from RF wireless communications equipment

| Test frequency (MHz) | Band (MHz) | Immunity test levels |
|----------------------|------------|--|
| | | Professional healthcare facility environment |
| 385 | 380-390 | Pulse modulation 18Hz, 27V/m |

| | | |
|------|-----------|---|
| 450 | 430-470 | FM, ± 5 kHz deviation, 1kHz sine, 28V/m |
| 710 | 704-787 | Pulse modulation 217Hz, 9V/m |
| 745 | | |
| 780 | | |
| 810 | 800-960 | Pulse modulation 18Hz, 28V/m |
| 870 | | |
| 930 | | |
| 1720 | 1700-1990 | Pulse modulation 217Hz, 28V/m |
| 1845 | | |
| 1970 | | |
| 2450 | 2400-2570 | Pulse modulation 217Hz, 28V/m |
| 5240 | 5100-5800 | Pulse modulation 217Hz, 9V/m |
| 5500 | | |
| 5785 | | |

Input AC power Port

| Phenomenon | Basic EMC standard | Immunity test levels |
|---|--------------------|---|
| | | Professional healthcare facility environment |
| Electrical transients/burst fast | IEC 61000-4-4 | ± 2 kV 100kHz repetition frequency |
| Surges Line-to-line | IEC 61000-4-5 | ± 0.5 kV, ± 1 kV |
| Surges Line-to-ground | IEC 61000-4-5 | ± 0.5 kV, ± 1 kV, ± 2 kV |
| Conducted disturbances induced by RF fields | IEC 61000-4-6 | 3V, 0.15MHz-80MHz 6V in ISM bands between 0.15MHz and 80MHz 80%AM at 1kHz |
| Voltage dips | IEC 61000-4-11 | 0% UT; 0.5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° |
| | | 0% UT; 1 cycle and 70% UT; 25/30 cycles Single phase: at 0° |
| Voltage interruptions | IEC 61000-4-11 | 0% UT; 250/300 cycles |

Input DC power Port

| Phenomenon | Basic EMC standard | Immunity test levels |
|---|--------------------|---|
| | | Professional healthcare facility environment |
| Electrical transients/burst fast | IEC 61000-4-4 | ±2 kV 100kHz repetition frequency |
| Conducted disturbances induced by RF fields | IEC 61000-4-6 | 3V, 0.15MHz-80MHz 6V in ISM bands between 0.15MHz and 80MHz 80%AM at 1kHz |

Signal input/output parts Port

| Phenomenon | Basic EMC standard | Immunity test levels |
|---|--------------------|---|
| | | Professional healthcare facility environment |
| Electrostatic Discharge | IEC 61000-4-2 | ±8 kV contact ±2kV, ±4kV, ±8kV, ±15kV air |
| Electrical transients/burst fast | IEC 61000-4-4 | ±1 kV 100kHz repetition frequency |
| Conducted disturbances induced by RF fields | IEC 61000-4-6 | 3V, 0.15MHz-80MHz 6V in ISM bands between 0.15MHz and 80MHz 80%AM at 1kHz |

The following shows information on reference cables provided against EMC

| Cable | Recommended cable length | Shielded or Unshielded | Number | Cable classification |
|--------------------------------|--------------------------|------------------------|--------|----------------------|
| AC Power Cable | 3m | Unshielded | 1 pcs | AC Power |
| DC Power Cable | 3.5m | Unshielded | 1 pcs | DC Power |
| LAN Cable (configuration mode) | 3m | Shielded | 1 pcs | Signal |

- Important information regarding Electromagnetic Compatibility (EMC)

Mars1417V requires special precautions regarding EMC and needs to be installed only by iRay or authorized personnel and put into service according to EMC information provided in the user manual. Mars1417V in use may be susceptible to electromagnetic interference from portable and mobile RF

communications such as mobile (cellular) telephones. Electromagnetic interference may result in incorrect operation of the system and create a potentially unsafe situation. The minimum distance between the panel and other equipment should be larger than 12 inch.

Mars1417V conforms to this EN60601-1-2:2015 standard for both immunity and emissions.

Nevertheless, special precautions need to be observed:

The use of accessories, transmitters and cables other than those specified by this User Manual, with the exception of accessories and cables sold by iRay of Mars1417V as replacement parts for inner components, may result in increased emission or decreased immunity.

5.3. Radio Frequency Compliance Information

| Country | Item |
|----------------|--|
| U.S.A | FCC Part 15.107 Sub part (b) / 15.109(g) Sub part B FCC Part 15 Sub part E 15.407 FCC Part 15 Sub part C 15.247 |
| European Union | ETSI EN 301 489-1 V1.8.1 (EMC) ETSI EN 301 489-17 V2.1.1 (EMC) EN 300 328 V1.7.1; EN 301 893 V1.6.1 (RF) EN 62311:2008 (RF Exposure) ETSI EN 300 328 V1.7.1; EN 301 893, V1.5.1 (Radio Spectrum) |

5.3.1. FCC Compliance

- The panel has been tested to comply with limits for a Class B digital device, pursuant to part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

- Operation is subject to the following two conditions.

The panel may not cause harmful interference.

The panel must accept any interference received, including interference that may cause undesired operation.

- The panel generates, uses, and radiates radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If the panel does cause harmful interference to radio or television reception, which can be determined by turning the panel off and on, the user is encouraged to correct the interference by one or more of the following measure.

Reorient or relocate the antenna.

Increase the separation between the panel and receiver.

Connect the panel into an outlet different from the receiver is connected.

Consult the distributor or an experienced radio/TV technician for help.

5.4. Battery Safety Standards

| Standards | Description |
|-----------------------------------|--|
| CAN/CSA E62133:13 1st Ed. Rev. | Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications First Edition |
| UL 62133, 1st Ed. Rev. | Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications First Edition |
| UL 2054 | Household and commercial Batteries |
| IEC 62133:2012 | Secondary cells and batteries containing alkaline or other non-acid electrolytes |
| UN38.3 | United Nations Recommendations on the Transport of dangerous goods Manual of tests and Criteria ST/SG/AC.10/11/Rev.5/Amend.1&Amend.2 |

| | |
|---------------------------------|-----------|
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|---------------------------------|-----------|

6. Trouble Shooting

Please refer to service manual. If the problem persists, turn off the panel and contact iRay service department (service@iraygroup.com). We would provide the best service.

| | |
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7. Service Information

7.1. Product Lifetime

The estimated product lifetime is up to 7 years under appropriate regular inspection and maintenance (battery 5 years).

7.2. Regular Inspection and Maintenance

In order to ensure the safety of patients and operator, to maintain the performance and reliability of the panel, be sure to perform regular inspection at least once a year. If necessary, clean up the panel, make adjustments or replace consumables such as fuses etc. There may be cases where overhaul is recommended depending on conditions. Contact iRay service office or local iRay dealer for regular inspection or maintenance.

7.3. Repair

If problem cannot be solved, contact your sales representative or local iRay dealer for repairs. Please refer to the label and provide the following information:

Product Name:

Series Number:

Description of Problem: as clearly as possible.

7.4. Replacement Parts Support

Main parts (parts required to maintain the function of the product) of this product will be stocked for 5 years after discontinuance of production for repairing.

Appendix

APPENDIX A INFORMATION OF MANUFACTURES.....94

***APPENDIX B INFORMATION OF MEDICAL DEVICE DIRECTIVE EUROPEAN
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Appendix A Information of Manufactures



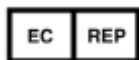
Company: iRay Technology Taicang, Ltd.

ADDRESS: NO.33 Xinggang Road, Taicang Port Economic and Technological
Development Zone, Jiangsu, China

ZIPCODE: 215434

TELEPHONE: +86-0512-53690872

Appendix B Information of Medical Device Directive European Representative



iRay Europe GmbH

Address: In den Dorfwiesen 14, 71720 Oberstenfeld Germany

Tel: +49-7062-977 88 00

Fax: +49-7062-976 0571

FCC Regulations:

Contains module's FCC ID : 2ACHK-01070189

- This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
 - Reorient or relocate the receiving antenna.
 - Increase the separation between the equipment and receiver.
 - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 - Consult the dealer or an experienced radio/ TV technician for help.
- Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.
- W52/UNII I is in door use only

Radio Frequency (RF) Energy

This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the United States.

During SAR testing, this device was set to transmit at its highest certified power level in all tested frequency bands, and placed in positions that simulate RF exposure in usage against the body with no separation. Although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value.

This is because the device is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless Base station antenna, the lower the power output.

The exposure standard for wireless devices employing a unit of measurement is known as the Specific Absorption Rate, or SAR. The SAR limit recommended by the ICNIRP used by the general public is 2.0W/kg averaged over ten grams of tissue and, is 1,6W/kg Averaged over one gram of tissue by IEEE Std 1528.

The FCC has granted an Equipment Authorization for this product with all reported SAR Levels evaluated as in compliance with the FCC RF exposure guidelines.

For this device, the highest FCC reported SAR value for usage against the head is 0.152W/kg, and for usage near the body is 0.137W/kg.

the highest CE SAR value for usage against the body is 0.093W/kg.

While there may be differences between the SAR levels of various product and at various positions, they all meet the government requirements.

SAR compliance for body-worn operation is based on a separation distance of 0 mm between the unit and the human body. Carry this device at least 0 mm away from your body to ensure RF exposure level compliant or lower to the reported level. To support body-worn operation, choose the belt clips or holsters, which do not contain metallic components, to maintain a separation of 0 mm between this device and your body.

RF exposure compliance with any body-worn accessory, which contains metal, was not tested and certified, and using such body-worn accessory should be avoided.