



Food and Drug Administration
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Qingdao Hisense Medical Equipment Co.,Ltd.
% Mr. Liu Zhitang
Regulatory Manager
Software outsourcing center 3rd floor north wing
No.169 Songling Road, Laoshan
Qing dao, Shan dong 266101
CHINA

March 3, 2016

Re: K160347

Trade/Device Name: Hisense LCD monitor models HMD2G21/HMD3G21/HMD5G21
Regulation Number: 21 CFR 892.2050
Regulation Name: Picture archiving and communications system
Regulatory Class: II
Product Code: PGY
Dated: February 2, 2016
Received: February 8, 2016

Dear Mr. Zhitang:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Division of Industry and Consumer Education at its toll-free number (800) 638 2041 or (301) 796-7100 or at its Internet address

<http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm>. Also, please note the regulation entitled, “Misbranding by reference to premarket notification” (21 CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to <http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm> for the CDRH’s Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Industry and Consumer Education at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address

<http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm>.

Sincerely yours,

A handwritten signature in blue ink that reads "Michael D. O'Hara". The signature is written in a cursive style and is positioned above the typed name and title.

For

Robert Ochs, Ph.D.
Director
Division of Radiological Health
Office of In Vitro Diagnostics
and Radiological Health
Center for Devices and Radiological Health

Enclosure

Indications for Use

510(k) Number (if known)

Device Name

Hisense LDC monitor models HMD2G21/HMD3G21/HMD5G21

Indications for Use (Describe)

The 2MP/3MP LCD Monitor (HMD2G21/HMD3G21) is intended to be used in displaying and viewing digital images (excluding digital mammography) for review and analysis by trained medical practitioners.

The 5MP LCD Monitor (HMD5G21) is intended to be used in displaying and viewing digital images for review and analysis by trained medical practitioners, including digital mammography.

Type of Use (Select one or both, as applicable)

Prescription Use (Part 21 CFR 801 Subpart D)

Over-The-Counter Use (21 CFR 801 Subpart C)

CONTINUE ON A SEPARATE PAGE IF NEEDED.

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510(k) Summary

[As required by 21 CFR 807.92]

1. Date Prepared [21 CFR807.92 (a) (1)]

Jan 8th, 2016

2. Submitter's Information [21 CFR807.92 (a) (1)]

Name of Sponsor: Qingdao Hisense Medical Equipment Co., Ltd.
Address: Software outsourcing center 3rd floor north wing, No.169
Songling Road, Laoshan Dist. 266101, Qingdao, China
Contact Name: Liu Zhitang
Telephone No.: +86 (0) 532-55753811

3. Trade Name, Common Name, Classification [21 CFR807.92 (a) (2)]

Trade Name: Hisense LCD monitor models HMD2G21/ HMD3G21/
HMD5G21
Common Name: Display system, medical image workstation, and others
Classification: 892.2050 system, image processing, radiological
Product code: PGY
Classification Panel: Radiology
Device Class: II

4. Identification of Predicate Device(s) [21 CFR 807.92(a) (3)]

The identified predicates within this submission are as follows:

BARCO N.V., Nio 2MP(MDNG-2121) has been cleared by FDA through 510(k) No. K091172,

BARCO N.V., Nio 3MP(MDCG-3221) has been cleared by FDA through 510(k) No. K131246

BARCO N.V., Nio 5MP(MDNG-5121) has been cleared by FDA through 510(k) No. K062131

5. Description of the Device [21 CFR 807.92(a) (4)]

The 2MP/3MP/5MP LCD Monitor (HMD2G21/HMD3G21/ HMD5G21) is a display system for medical viewing, with high resolution 1600x1200(HMD2G21)/2048 x 1536(HMD3G21)/ 2560 x 2048(HMD5G21), built-in brightness stabilization circuit, front sensor and ambient light sensor, stable brightness and persistent calibration can be guaranteed. The display can support both landscape and portrait mode. The antiglare screen can prevent display from reflection under highlight conditions, make the image and display clearer.

6. Intended Use [21 CFR 807.92(a)(5)]

The 2MP/3MP LCD Monitor (HMD2G21/HMD3G21) are intended to be used in displaying and viewing digital images (excluding digital mammography) for review and analysis by trained medical practitioners.

The 5MP LCD Monitor (HMD5G21) is intended to be used in displaying and viewing digital images for review and analysis by trained medical practitioners, including digital mammography.

7. Technological Characteristics [21 CFR 807.92(a)(6)]

The HMD2G21

Panel	21.3", a-Si TFT LCD, antiglare
Brightness (typ.)	1900 cd/m ²
CR (typ.)	1400:1
Viewing angle	R/L 176° , U/D 176° Typ. (CR > 10)
Pixel Pitch	0.27 mm
Native resolution	1600 x 1200
Display area	432.0mm(H)x324.0mm (V)
Compatible video signals	640 x 480@60Hz(progressive) 1024 x 768@60Hz(progressive) 1600x1200@60Hz (progressive)
Aspect ratio	4:3
Screen size	21.3" real diagonal
Power	DC24V/2.2A
Power consumption	Max. 60 W
Input signals	DVI-D, Display Port

Digital input	LVDS (single)
Plug and play	VESA DDC 2B
Dimension	384.0mm (W) x 492.0mm (H) x70.0mm (D) (without Stand) 384.0 mm (W) x 637.5 mm (H) x 273.5mm (D) (with Stand)
Weight	5.5kg (without Stand) 9.9kg (with Stand)
Operating temperature and humidity:	Temperature: 0°C ~ 40°C Humidity: 20% ~80%
Storage temperature and humidity:	Temperature: -20°C ~ 60°C Humidity:10% ~90%

The HMD3G21

Panel	21.2", IPS-NEO, antiglare
Brightness (typ.)	1700 cd/m ²
CR (typ.)	1400:1
Viewing angle	R/L 176° , U/D 176° Typ. (CR > 10)
Pixel Pitch	0.21075 mm
Native resolution	2048x1536
Display area	(H)431.6x(V)323.7(mm)
Compatible video signals	640 x 480@60Hz(progressive) 2048x1536@60Hz (progressive)
Aspect ratio	4:3
Screen size	21.2" real diagonal
Power	DC24V/2.2A
Power consumption	Max. 60 W
Input signals	DVI-D, Display Port
Digital input	LVDS (single)
Plug and play	VESA DDC 2B
Dimension	384.0mm (W) x 492.0mm (H) x70.0mm (D) (without Stand) 384.0 mm (W) x 637.5 mm (H) x 273.5mm (D) (with Stand)
Weight	6.1kg (without Stand) 10.4kg (with Stand)
Operating temperature and humidity:	Temperature: 0°C ~ 40°C Humidity: 20% ~80%
Storage	Temperature: -20°C ~ 60°C

temperature and humidity:	Humidity:10% ~90%
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The HMD5G21

Panel	21.3", IPS-NEO, antiglare
Brightness (typ.)	1200 cd/m ²
CR (typ.)	1200:1
Viewing angle	R/L 176° , U/D 176° Typ. (CR > 50)
Pixel Pitch	0.165 mm
Native resolution	2560 x 2048
Display area	422.4mm(H)x337.9mm (V)
Compatible video signals	640 x 480@60Hz(progressive) 1024 x 768@60Hz(progressive) 2560 x 2048@60Hz (progressive)
Aspect ratio	5:4
Screen size	21.3" real diagonal
Power	DC24V/3A
Power consumption	Max. 72 W
Input signals	DVI-D, Display Port
Digital input	LVDS (double)
Plug and play	VESA DDC 2B
Dimension	392.0mm (W) x 498.0mm (H) x83.0mm (D) (without Stand) 392.0 mm (W) x 632.0 mm (H) x 273.5mm (D) (with Stand)
Weight	8.5kg (without Stand) 12.8kg (with Stand)
Operating temperature and humidity:	Temperature: 0°C ~ 40°C Humidity: 20% ~80%
Storage temperature and humidity:	Temperature: -20°C ~ 60°C Humidity:10% ~90%

8. Substantial Equivalence [21 CFR 807.92(b) (1) and 807.92]

8.1 Intended uses:

Table 1 Intended Use Comparison of HMD2G21

ID	Comparison Item	Proposed Device 2MP LCD Monitor (HMD2G21)	Predicate Device Nio 2MP(MDNG-2121)

1	Intended Use	The HISENSE 2MP LCD Monitor (HMD2G21) is intended to be used in displaying and viewing digital images (excluding digital mammography) for review and analysis by trained medical practitioners.	The Nio 2MP(MDNG-2121) is intended to be used in displaying and viewing digital images for review by trained medical practitioners. These devices must not be used in primary image diagnosis in mammography.
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Table 2 Intended Use Comparison of HMD3G21

ID	Comparison Item	Proposed Device 3MP LCD Monitor (HMD3G21)	Predicate Device Nio 3MP(MDCG-3221)
1	Intended Use	The HISENSE 3MP LCD Monitor (HMD3G21) is intended to be used in displaying and viewing digital images (excluding digital mammography) for review and analysis by trained medical practitioners.	The Nio 3MP(MDCG-3221) is intended to be used in displaying and viewing digital images for review by trained medical practitioners. These devices must not be used in primary image diagnosis in mammography.

Table 3 Intended Use Comparison of HMD5G21

ID	Comparison Item	Proposed Device 5MP LCD Monitor (HMD5G21)	Predicate Device Nio 5MP(MDNG-5121)
1	Intended Use	The 5MP LCD Display (HMD5G21) is intended to be used in displaying and viewing digital images for review and analysis by trained medical practitioners, including digital mammography.	The Nio 5MP(MDNG-5121) is intended to be used as a tool in displaying and viewing digital images for review and analysis by trained medical practitioners, including digital mammography.

8.2 Comparison table**Table 4 General Comparison about HMD2G21 and Nio 2MP**

ID	Comparison Item	Proposed Device HMD2G21	Predicate Device Nio 2MP(MDNG-2121)
2	Performance		
2.1	Panel Size and Type	21.3", TFT LCD display	21.3", TFT LCD display
2.2	Pixel Pitch	0.27 mm	0.27 mm

ID	Comparison Item	Proposed Device HMD2G21	Predicate Device Nio 2MP(MDNG-2121)
2.3	Native Resolutions	1600x1200	1600x1200
2.4	Brightness	1900 cd/m2	1650 cd/m2
2.5	Contrast Ratio	1400:1	850:1
2.6	Network Interface	USB(1 Up, 2 Downstream)	USB(1 Up, 2 Downstream)
2.7	Active Display Size (HxV)	432.0mm x324.0mm	432mm x324mm
3	Physical Specifications		
3.1	Dimensions (Wx Hx D)	384mm (W) x 492mm (H) x 70mm (D) (without Stand) 384 mm (W) x 517.5-637.5 mm (H) x 273.5mm (D) (with Stand)	382x 488 x 114 mm (without Stand) Portrait: 382 x 577~637 x 249 mm Landscape: 488 x 472~532 x 249 mm (with Stand)
Temperature			
3.2	Operating	0°C ~ 40°C	0°C ~ 35°C
3.3	Transport/ Storage	-20°C ~ 60°C	-20°C ~ 60°C
Relative humidity			
3.4	Operating	20% ~80%	8% ~80%(non-condensing)
3.5	Transport/ Storage	10% ~90%	5% ~85%
4	Power Supply		
4.1	PowerCapacity	≤60W	<70W
4.2	Input Voltage	DC24V/2.2A	100~240V
5	Human factors (operation characteristic)		
5.1	Usability	Button operation, LED indicator	Button operation, LED indicator
5.2	Mode of operation	Continuous operation	Continuous operation
6	Biocompatibility		
6.1	Evaluation	The proposed device does not contain any components that come into direct or indirect contact with patients, so the evaluation doesn't be needed.	The proposed device does not contain any components that come into direct or indirect contact with patients, so the evaluation doesn't be needed.
7	Sterility		
7.1	Sterilization	The proposed device does not need sterilization.	The proposed device does not need sterilization.
8	Electrical & Mechanical safety& Thermal safety		
8.1	Type of protection against electric shock	Class I	Class I
8.2	Degree of protection against harmful ingress of liquid	Ordinary equipment.	Ordinary equipment.
8.3	Evaluation	The electrical, mechanical and thermal safety evaluation is conducted as per the	The electrical, mechanical and thermal safety

ID	Comparison Item	Proposed Device HMD2G21	Predicate Device Nio 2MP(MDNG-2121)
		requirements of the standard IEC 60601-1.	evaluation is conducted as per the requirements of the standard IEC 60601-1.
9	Electromagnetic Compatibility		
9.1	EMC Evaluation	Complying with IEC 60601-1-2	Complying with IEC 60601-1-2

Table 5 General Comparison about HMD3G21 and Nio 3MP

ID	Comparison Item	Proposed Device HMD3G21	Predicate Device Nio 3MP(MDCG-3221)
2	Performance		
2.1	Panel Size and Type	21.3", TFT LCD display	21.3",TFT LCD display
2.2	Pixel Pitch	0.21075 mm	0.2115 mm
2.3	Native Resolutions	2048x1536	2048x1536
2.4	Brightness	1700 cd/m2	800 cd/m2
2.5	Contrast Ratio	1400:1	1700:1
2.6	Network Interface	USB(1 Up, 2 Downstream)	USB(1 Up, 2 Downstream)
2.7	Active Display Size (HxV)	431.6mm x323.7mm	433mm x325mm
3	Physical Specifications		
3.1	Dimensions (Wx Hx D)	384mm (W) x 492mm (H) x 70mm (D) (without Stand) 384 mm (W) x 517.5-637.5 mm (H) x 273.5mm (D) (with Stand)	378mm x 491mm x 84mm (without Stand) Portrait: 378mm x 628~528mm x 235mm Landscape: 491mm x 572~472mm x 235mm (with Stand)
Temperature			
3.2	Operating	0°C ~ 40°C	0°C ~ 40°C
3.3	Transport/ Storage	-20°C ~ 60°C	-20°C ~ 60°C
Relative humidity			
3.4	Operating	20% ~80%	8% ~80%(non-condensing)
3.5	Transport/ Storage	10% ~90%	5% ~95%
4	Power Supply		
4.1	PowerCapacity	≤60W	≤40W
4.2	Input Voltage	DC24V/2.5A	100~240v
5	Human factors (operation characteristic)		
5.1	Usability	Button operation, LED indicator	Button operation, LED indicator
5.2	Mode of operation	Continuous operation	Continuous operation
6	Biocompatibility		
6.1	Evaluation	The proposed device does not	The proposed device does

ID	Comparison Item	Proposed Device HMD3G21	Predicate Device Nio 3MP(MDCG-3221)
		contain any components that come into direct or indirect contact with patients, so the evaluation doesn't be needed.	not contain any components that come into direct or indirect contact with patients, so the evaluation doesn't be needed.
7	Sterility		
7.1	Sterilization	The proposed device does not need sterilization.	The proposed device does not need sterilization.
8	Electrical & Mechanical safety& Thermal safety		
8.1	Type of protection against electric shock	Class I	Class I
8.2	Degree of protection against harmful ingress of liquid	Ordinary equipment.	Ordinary equipment.
8.3	Evaluation	The electrical, mechanical and thermal safety evaluation is conducted as per the requirements of the standard IEC 60601-1.	The electrical, mechanical and thermal safety evaluation is conducted as per the requirements of the standard IEC 60601-1.
9	Electromagnetic Compatibility		
9.1	EMC Evaluation	Complying with IEC 60601-1-2	Complying with IEC 60601-1-2

Table 6 General Comparison about HMD5G21 and Nio 5MP

ID	Comparison Item	Proposed Device HMD5G21	Predicate Device Nio 5MP(MDNG-5121)
2	Performance		
2.1	Panel Size and Type	21.3", TFT LCD display	21.3",TFT LCD display
2.2	Pixel Pitch	0.165 mm	0.165 mm
2.3	Native Resolutions	2,560 × 2,048	2,560 × 2,048
2.4	Brightness	1200 cd/m2	700 cd/m2
2.5	Contrast Ratio	1200:1	800:1
2.6	Network Interface	USB(1 Up, 2 Downstream)	USB(1 Up, 2 Downstream)
2.8	Active Display Size (HxV)	422.4mm x337.9mm	422mm x338mm
3	Physical Specifications		
3.1	Dimensions (Wx Hx D)	392mm×498mm×83mm (without Stand) 392mm×514-632mm×273.5mm (with Stand)	408mm x 492mm x 115mm (without Stand) Portrait: 408mm x 489~549mm x 250mm Landscape: 492mm x 531~591mm

ID	Comparison Item	Proposed Device HMD5G21	Predicate Device Nio 5MP(MDNG-5121)
			x 250mm (with Stand)
Temperature			
3.2	Operating	0°C ~ 40°C	0°C ~ 40°C
3.3	Transport/ Storage	-20°C ~ 60°C	-20°C ~ 60°C
Relative humidity			
3.4	Operating	20% ~80%	8% ~80%(non-condensing)
3.5	Transport/ Storage	10% ~90%	5% ~95%
4 Power Supply			
4.1	PowerCapacity	<80W	61W
4.2	Input Voltage	DC24V/3A	100~250V
5 Human factors (operation characteristic)			
5.1	Usability	Button operation, LED indicator	Button operation, LED indicator
5.2	Mode of operation	Continuous operation	Continuous operation
6 Biocompatibility			
6.1	Evaluation	The proposed device does not contain any components that come into direct or indirect contact with patients, so the evaluation doesn't be needed.	The proposed device does not contain any components that come into direct or indirect contact with patients, so the evaluation doesn't be needed.
7 Sterility			
7.1	Sterilization	The proposed device does not need sterilization.	The proposed device does not need sterilization.
8 Electrical & Mechanical safety& Thermal safety			
8.1	Type of protection against electric shock	Class I	Class I
8.2	Degree of protection against harmful ingress of liquid	Ordinary equipment.	Ordinary equipment.
8.3	Evaluation	The electrical, mechanical and thermal safety evaluation is conducted as per the requirements of the standard IEC 60601-1.	The electrical, mechanical and thermal safety evaluation is conducted as per the requirements of the standard IEC 60601-1.
9 Electromagnetic Compatibility			
9.1	EMC Evaluation	Complying with IEC 60601-1-2	Complying with IEC 60601-1-2

8.4 Discussion of Differences:

It is reasonable that there are some differences between our new system and its predicate. All of parameters comply with 21CFR1020.33 and related IEC standards. We did not use any new technology in this system, so those differences between our new

system and its predicate do not affect the safety and effectiveness (SE).

About HDM2G21 and Nio 2MP

Review of ID 1 - Intended use, both of them are intended to be used in displaying and viewing digital images, excluding digital mammography, for review and analysis by trained medical practitioners. So the SE is not affected.

Review of ID 2 - Performance, except two items as below, both are the same, so the SE is not affected.

1. Brightness, The proposed device is 1900cd/m² and the predicate device is 1650cd/m², but the 1900 cd/m² is better than 1650cd/m² mm in terms of the bright lifetime. Therefore, they can be considered Substantially Equivalent in safety and effectiveness. So the SE is not affected.

2. Contrast Ratio, The proposed device is 1400:1 and the predicate device is 850:1, but the 1400:1 is better than 850:1 in terms of the Contrast Ratio. Therefore, they can be considered Substantially Equivalent in safety and effectiveness. So the SE is not affected.

Review of ID 3 - Physical Specifications, Dimensions and Relative humidity are comparable, so the SE is not affected

Review of ID 4 - Power Supply, both of them comply with IEC 60601-1 and IEC 60601-1-2. Therefore, they can be considered Substantially Equivalent in safety and effectiveness. So the SE is not affected.

Review of ID 5 - Human factors, both are the same, so the SE is not affected.

Review of ID 6 - Biocompatibility, both are the same, so the SE is not affected.

Review of ID 7 - Sterility, both are the same, so the SE is not affected.

Review of ID 8 - Electrical & Mechanical safety& Thermal safety, both are the same, so the SE is not affected.

Review of ID 9 - EMC, both are the same, so the SE is not affected.

About HDM3G21 and Nio 3MP

Review of ID 1 - Intended use, both of them are intended to be used in displaying and viewing digital images, excluding digital mammography, for review and analysis by trained medical practitioners. So the SE is not affected.

Review of ID 2 - Performance, except four items as below, both are the same, so the SE is not affected.

1. Pixel Pitch, The proposed device is 0.21075 mm and the predicate device is 0.2115 mm, but the 0.21075 mm is better than 0.2115 mm in terms of the image quality. Therefore,

they can be considered Substantially Equivalent in safety and effectiveness. So the SE is not affected.

2. Brightness, The proposed device is 1700cd/m² and the predicate device is 800cd/m², but the 1700 cd/m² is better than 800cd/m² in terms of the bright lifetime. Therefore, they can be considered Substantially Equivalent in safety and effectiveness. So the SE is not affected.

3. Contrast Ratio, The proposed device is 1400:1 and the predicate device is 1700:1, but the Contrast Ratio are comparable, Therefore, they can be considered Substantially Equivalent in safety and effectiveness. So the SE is not affected.

4. Active Display Size, The proposed device is 431.6mm x323.7mm and the predicate device is 433mm x325mm, the different of the effective display area due to the different size of the pixel pitch, and the smaller the better in terms of the image quality. Therefore, they can be considered Substantially Equivalent in safety and effectiveness. So the SE is not affected.

Review of ID 3 - Physical Specifications, Dimensions and Relative humidity are comparable, so the SE is not affected

Review of ID 4 - Power Supply, both of them comply with IEC 60601-1 and IEC 60601-1-2. Therefore, they can be considered Substantially Equivalent in safety and effectiveness. So the SE is not affected.

Review of ID 5 - Human factors, both are the same, so the SE is not affected.

Review of ID 6 - Biocompatibility, both are the same, so the SE is not affected.

Review of ID 7 - Sterility, both are the same, so the SE is not affected.

Review of ID 8 - Electrical & Mechanical safety& Thermal safety, both are the same, so the SE is not affected.

Review of ID 9 - EMC, both are the same, so the SE is not affected.

About HDM5G21 and Nio 5MP

Review of ID 1 - Intended use, both of them are intended to be used in displaying and viewing digital images, including digital mammography, for review and analysis by trained medical practitioners. So the SE is not affected.

Review of ID 2 - Performance, except one item as below, both are the same, so the SE is not affected.

1. Brightness, The proposed device is 1200cd/m² and the predicate device is 700cd/m², but the different brightness just affect in terms of the bright lifetime. Therefore, they can be considered Substantially Equivalent in safety and effectiveness. So the SE is not affected.

2. Contrast Ratio, The proposed device is 1200:1 and the predicate device is 800:1, and the higher the better in terms of the image quality. Therefore, they can be considered Substantially Equivalent in safety and effectiveness. So the SE is not affected.

3. Active Display Size, The proposed device is 422.4mm x337.9mm and the predicate device is 422mm x338mm, the different of the effective display area due to the different size of the pixel pitch. Therefore, they can be considered Substantially Equivalent in safety and effectiveness. So the SE is not affected.

Review of ID 3 - Physical Specifications, Dimensions and Relative humidity are comparable, so the SE is not affected

Review of ID 4 - Power Supply, both of them comply with IEC 60601-1 and IEC 60601-1-2. Therefore, they can be considered Substantially Equivalent in safety and effectiveness. So the SE is not affected.

Review of ID 5 - Human factors, both are the same, so the SE is not affected.

Review of ID 6 - Biocompatibility, both are the same, so the SE is not affected.

Review of ID 7 - Sterility, both are the same, so the SE is not affected.

Review of ID 8 - Electrical & Mechanical safety& Thermal safety, both are the same, so the SE is not affected.

Review of ID 9 - EMC, both are the same, so the SE is not affected.

9. Conclusion [21 CFR 807.92(b) (3)]

In accordance with the Federal Food, Drug and Cosmetic Act, 21 CFR Part 807 and based on the information provided in this premarket notification, Qingdao Hisense Medical Equipment Co., Ltd. concludes that :

The subject device has same intended use, similar product design, same performance effectiveness, performance safety as the predicate device. The differences above between the subject device and predicate device do not affect the basic design principle, usage, effectiveness and safety of the subject device. And no new risk is raised regarding to effectiveness and safety.