IRIS–XP

IRIS-XP

❖ What is the Infrared Thermograph Imaging System?

It displays the thermal images of sensitive changes on the skin surface or the pain area by detecting the extra minimum infrared ray emitting from the body. And it is a sole equipment to diagnose the neuropathy, muscle pain syndrome and circulatory disorder which are difficult to be found by CT or MRI.

❖ What are the main advantages of Infrared Thermograph?

- It does not give any damages on the body and it is possible to measure the pregnant women without any radiation.
- It is non-invasive and has no pain at all.
- It is possible to evaluate the pain objectively.
- It can be detecting the physiological problems.
- It is easy to compare the result before and after the treatment.
- It helps to figure out the malingering ill.

✚ Medicore Co., Ltd. makes the standard of Infrared Thermograph.

✚ It may be possible to make the similar thermograph device, but it is not possible to make it for the medical purpose as precisely as we can.

✚ Medicore Co., Ltd. took the market share over 90% in Korea market.

Advantages of IRIS-XP

♦ Highly advanced technology

♦ Best clinical support and remote-diagnosis system

♦ PACS & EMR are available to the connection

♦ One-stop service for the client from A to Z

♦ Main sponsor for Korean Infrared Thermograph Association

IRIS−XP

MAIN FEATURES

1. HIGH RESOLUTION COLOR
It is an excellent temperature resolution to display the color at maximum of 256 scales, making it possible to display delicate body temperature patterns.

2. REAL TIME IMAGING RECORDING
It is possible to save the images of taken at real time.

3. SUITABLE TEMPERATURE RANGE FOR HUMAN BODY
It measures the temperature range at 15~40℃.

4. AUTO FOCUSING TECHNOLOGY
It is possible to control the focus of images and the patient's posture as well.
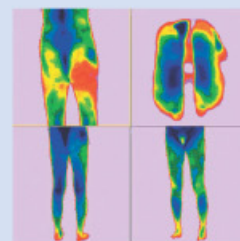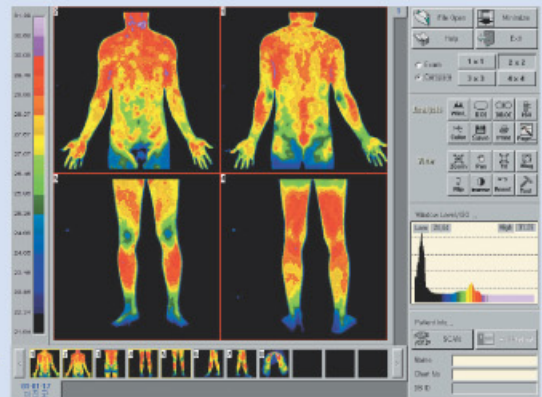
5. PACS AND EMR COMMUNICATIONS

6. USEFUL & INGENIOUS DATABASE

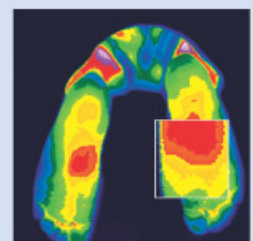### 7. VARIOUS COLOR – PATTERN SELECTION
It can be applied to select the various patterns with 7 different colors.

8. VARIOUS IMAGE TOOLS
Temperature window level control / Region Of Interest (ROI) / DROI / Isothermal Zone / Fit / PAN / Zoom / magnify / Save all data
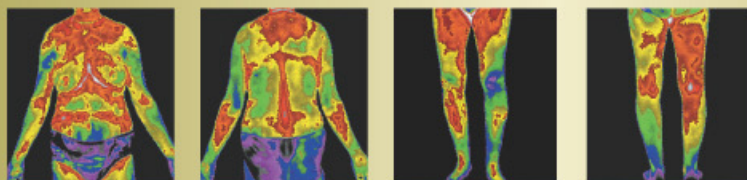
Inverse

Magnify

CLINICAL APPLICATION

❶ Neural Disease : Peripheral nerve injury, Spinal cord disorders, Hyperhidrosis, Migraine, Trigeminal neuralgia, CVA

❷ Musculo Skelectal Disease: Myofascial pain syndrome, Arthritis, Brachial plexus injury, Rheumatoid arthritis, Musculoligmentous spasm, Sprain & strain, Myofascitis

❸ Vascular Disease : Deep vein disease, Varicose vein, Thrombosis, Burger's disease, Raynaud's syndrome, Vascular inflammation

❹ Breast Screening

❺ Internal Secretion : Thyroid gland

❻ ENT/Urinary/Dental : Paranasal sinusitis, Impotence, TMJ

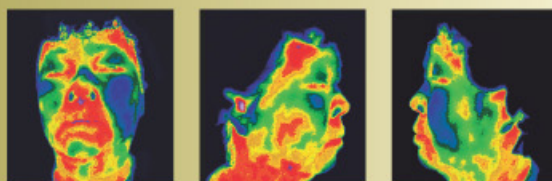❼ Skin Disease : Burn, eczema, allergic skin, Effect of skin grafting

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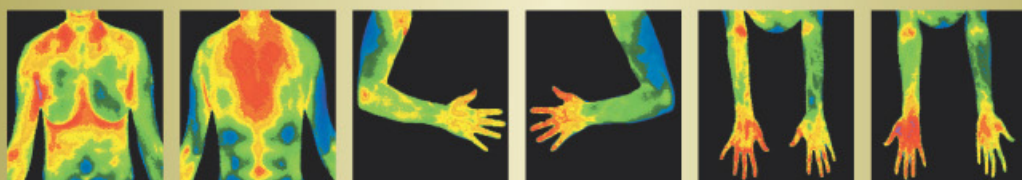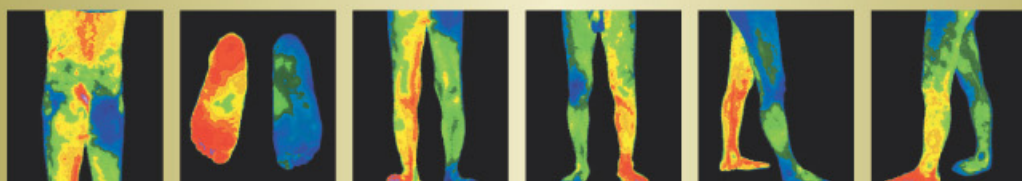## Versatile Clinical Applications by High Quality Medical Infrared Thermographic Images
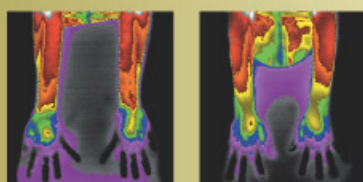
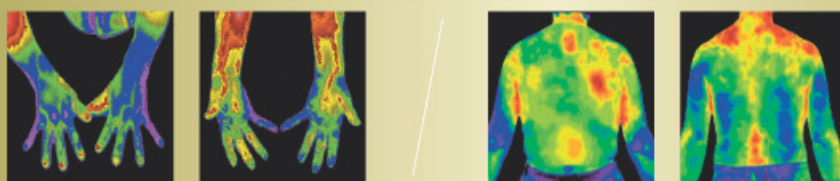**CVA**

Facial Palsy

Cervical Neural Disease

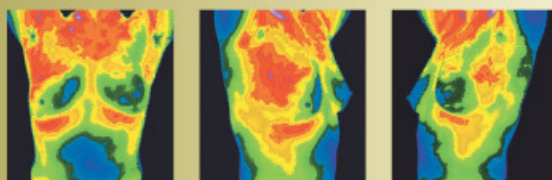**Lumbar Neural Disease**

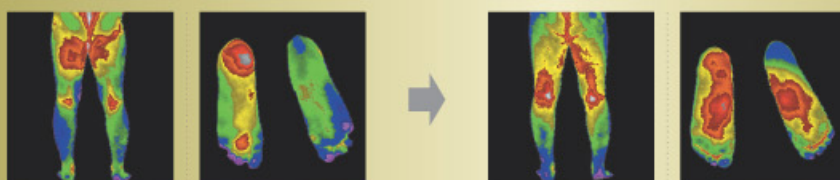**Raynaud's Syndrome**

CTS / MPS

Breast Cancer

Comparison of Pre and Post-Treatment

pre-laminectomy

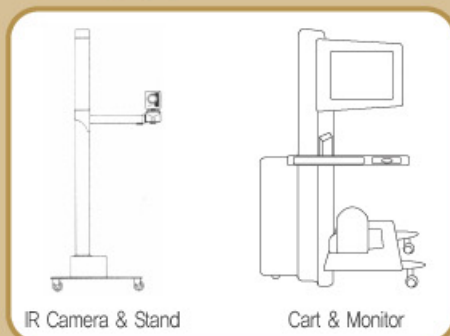post-laminectomy

IRIS-XP

Digital Infranrd Imaging System

SPECIFICATIONS:

1. Temperature resolution: 0.05℃

2. Absolute temperature measurement

3. Temperature measurement range: 0 ~ 50℃

4. Frame rate: 30 Hz / 9 Hz

5. Automatic & manual focus: Both all available

6. Image resolution: 640(H) x 480(V)

7. Detector type: Microbolometer

8. Wave length: 7.5~14 microns

9. Field of view: 50°(H) x 37.5°(V) with wide angle lens

10. Imaging output: RS-170(NTSC, PAL) / IEEE-1394(Firewire)

11. Focus range: 30cm ~ Infinity

12. Rotatable camera head: Available & Remote controller

13. Automatic dynamic rotator: Rotates at angle of 45° (360° movement)

14. Color mode: 16, 32, 64, 256, Gray Scale, 18x128, 16x128 (7 Type)

15. Image process functions: Zoom, Isotherm / Sub thermal, Magnify, Pan, Fit, etc.

16. Real time image storage

17. Compensation function of room temperature

18. Software functions: Win level, ROI, DROI ,PROI,3D, Description, Isothermal, Remark, Pain draw chart, Grid Image capture

19. Image network system : PACS System

20. Operating system : MS Windows XP

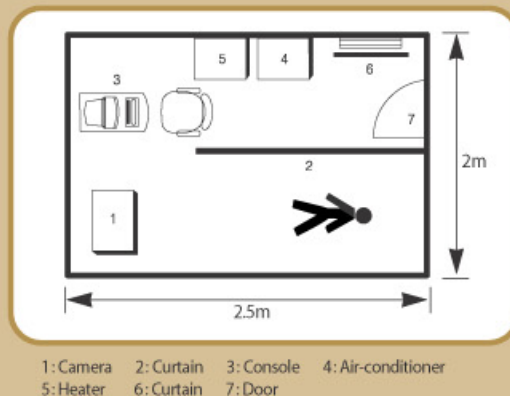21. Computer: Pentium IV, 200 GB, 48cm (19") LCD monitor, DVD RW

Real Time infrared **Digital Thermography**
IRIS-XP

Medicore acquired the patent in Korea for the thermograph technology as we invested in a new development for over 15 years and have been positioned in a leading company throughout the world.

Medicore guarantees the high quality and best technical service to the clients as we have the best production process.

Medicore cooperates with the research center in several universities and we have a lot of clinical experiences and materials. Particularly, we support the Korea Thermograph Association which is held every year.

Dimension

IR Camera & Stand   Cart & Monitor

Thermo-Room

2m

2.5m

1 : Camera   2 : Curtain   3 : Console   4 : Air-conditioner
5 : Heater   6 : Curtain   7 : Door

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