

PROMPT CONTROL TECHNOLOGY

Professional Medical Imaging Solutions

About Us



PromptControl Technology is a touch solution provider with 10+ years of professional touch experience. Product Line including touch screens, touch monitors, touch all-in-one computer, and custom products. PromptControl Technology has been committed to providing customers with advanced, efficient, best value for excellent touch solutions, our products have been exported to Asia, Europe, United States, Australia, ect., customers have been in more than 40 countries around the world, no matter where you are, we can provide you with best professional service.

Company Profile

10+
YEARS

60+
STAFF

Professional touch monitor development, production and marketing
60+ staff, 10+ R&D team members

3+
PRODUCTION LINES

5000+
CAPACITY

3+ professional and efficient production lines
Single- and multi-touch screens: 3–5K/month
Touchscreen monitors: 3K/month
All-in-one touch computers: 2K/month



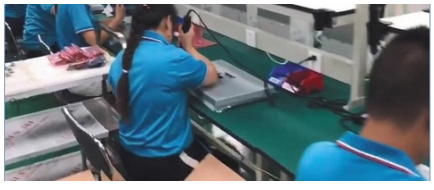
Independent R&D and Production

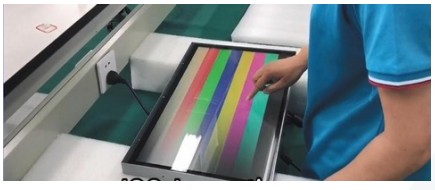


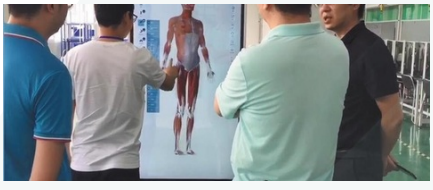
Office


R&D Design


Cleanroom

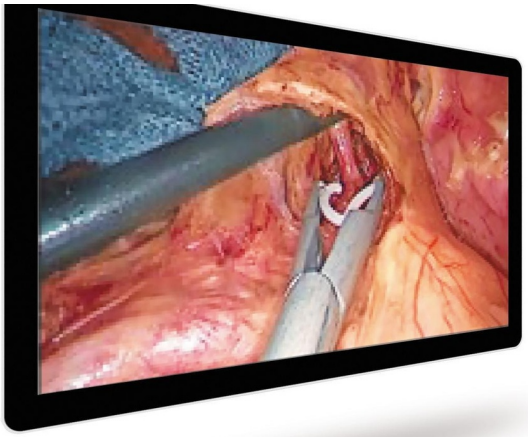

Production

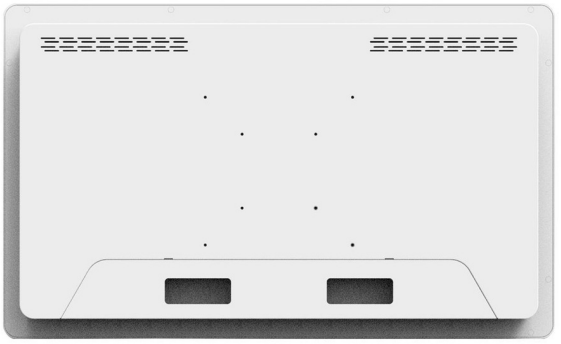

IQC Inspection


Software Testing

32-inch Class 4K UHD Surgical Monitor

PCT01-315M05-011 | 31.5-inch display



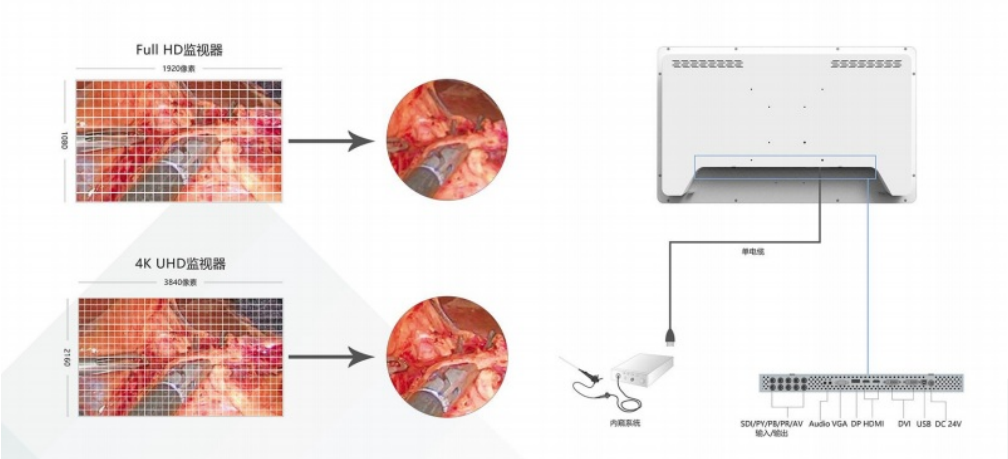


Fine Detail in 4K

A 3840 × 2160 panel with typical luminance of 900 cd/m² presents detailed surgical images.

4K at 60 Hz

Display 4K UHD video at 60 frames per second through a compatible DisplayPort or HDMI connection.



Ambient Light Sensing

Automatically adjust brightness to suit changing room light levels.

HDR Signal Support

Accept compatible PQ and HLG video signals for HDR imaging workflows.

Two Sources, One Screen

View two sources side by side with Picture-by-Picture (PbyP), or display a secondary image with Picture-in-Picture (PiP).

Automatic Input Switching

Automatically switch to a backup input if the primary signal is lost.

Wide Color Gamut

BT.2020 signal support enables integration with compatible surgical imaging sources.

Optical Bonding

Reduce internal reflections and condensation between the panel and protective glass for clearer viewing.

Multi-Display Connectivity

Video outputs share images across connected displays.

27-inch Full HD Surgical Monitor

PCT01-27T05-P241





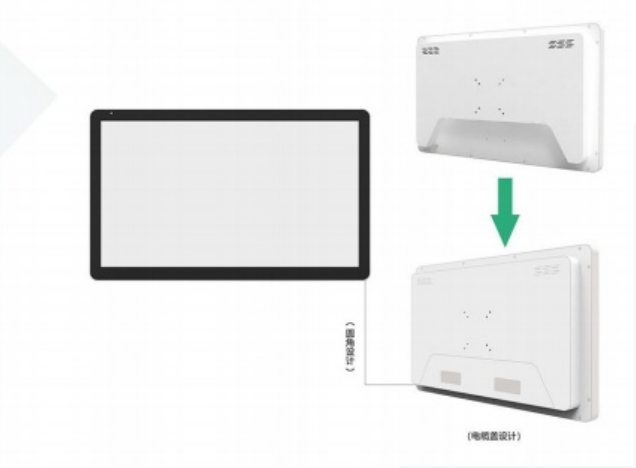
Bright, Detailed Images

A 1920 × 1080 panel with typical luminance of 900 cd/m² delivers bright, detailed surgical images.

Flat Front Design

A flat protective glass front and integrated cable cover support cleaning and organized cable routing. The front panel is rated IP45, with an overall enclosure rating of IP32.





Ambient Light Sensing

Adjust brightness to suit changing room light levels.

HDR Signal Support

Accept compatible PQ and HLG video signals.

Multi-Source Viewing

PiP and PbyP modes display two video sources on one screen.

Video Output

Share images with additional connected displays.

Wide Color Gamut

Support color-rich imaging workflows with compatible sources.

Image Rotation

Electronic image rotation supports 90°, 180° and 270° orientations.

Optical Bonding

Reduce internal reflections for clearer viewing.

Medical Safety and EMC

Medical safety and EMC requirements can be addressed through project-specific design and testing, including evaluation to IEC 60601-1 and IEC 60601-1-2.

21.3-inch Color Diagnostic Display

PCT01-213M05-011





Clear Image Presentation

A 1600 × 1200 panel with a typical contrast ratio of 1800:1 and 178° viewing angles supports detailed image viewing.

Flexible Scaling

Select full-screen, aspect-ratio-preserving or 1:1 pixel display to suit the source image.



Digital and Analog Inputs

HDMI, DisplayPort, DVI and VGA inputs support a range of imaging sources.

HDR Signal Support

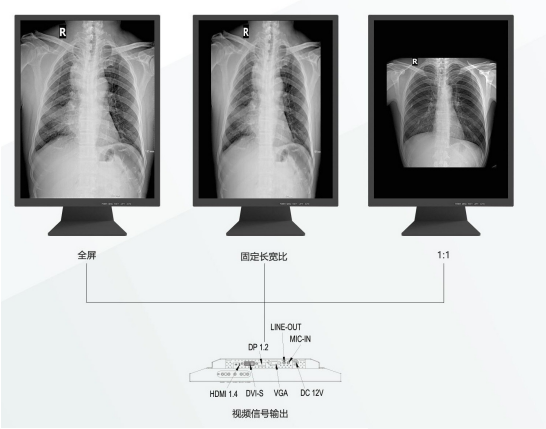
Accept compatible PQ and HLG video signals.

Multi-Source Viewing

PiP and PbyP layouts bring two sources onto one screen.

Video Output

Share images with additional connected displays.



DICOM Part 14 Calibration

DICOM calibration is available to align grayscale response with the DICOM Part 14 Grayscale Standard Display Function (GSDF).

Image Rotation

Electronic image rotation supports 90°, 180° and 270° orientations.

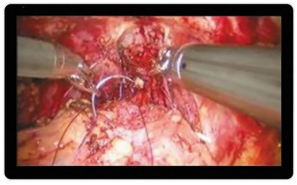
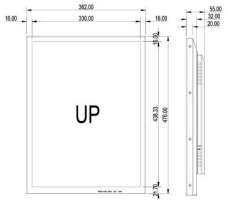
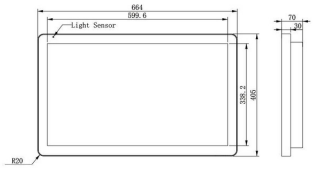
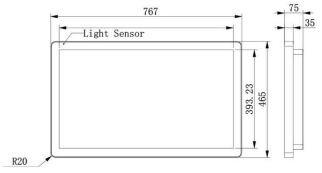
Optical Bonding

Reduce internal reflections for clearer viewing.

Medical Safety and EMC

Medical safety and EMC requirements can be addressed through project-specific design and testing, including evaluation to IEC 60601-1 and IEC 60601-1-2.

Technical Specifications

Product			
Dimensions (unit: mm)			

Specification	PCT01-213M05-011	PCT01-27T05-P241	PCT01-315M05-011
Screen size, diagonal	21.3 inches	27 inches	31.5 inches
Native resolution	1600 x 1200	1920 x 1080	3840 x 2160 (4K UHD)
Aspect ratio	4:3	16:9	16:9
Typical luminance	400 cd/m²	900 cd/m²	900 cd/m²
Display colors	16.7 million	1.07 billion	1.07 billion
Color depth	8-bit	10-bit	10-bit
Color gamut	72% NTSC	100% sRGB	100% sRGB
Viewing angle (H/V)	178°/178°	178°/178°	178°/178°
Refresh rate	60 Hz	60 Hz	60 Hz
Response time, typical	16 ms	14 ms	14 ms
Contrast ratio, typical	1800:1	1000:1	2000:1
Interfaces	HDMI 1.4, DP 1.2, single-link DVI, VGA, USB-B	HDMI 1.4, DP 1.2, single-link DVI, VGA, USB-B	HDMI 2.0, HDMI 1.4, DP 1.2, VGA, single-link/dual-link DVI, USB-B, AV, component video, SDI
Electronic image rotation	90°/180°/270°	90°/180°/270°	90°/180°/270°
Gamma presets	1.8/2.0/2.1/2.2/2.3/2.4	1.8/2.0/2.1/2.2/2.3/2.4	1.8/2.0/2.1/2.2/2.3/2.4
DICOM luminance presets	400/300 cd/m²	600/500/400/300 cd/m²	600/500/400/300 cd/m²
OSD language	Simplified Chinese; English available on request	Simplified Chinese; English available on request	Simplified Chinese; English available on request
Multi-window modes	PiP / PbyP	PiP / PbyP	PiP / PbyP
Power input	24 V DC	24 V DC	24 V DC
Power consumption	<30 W	<60 W	<80 W
Operating humidity	20–80% RH, non-condensing	20–80% RH, non-condensing	20–80% RH, non-condensing
Storage humidity	10–90% RH, non-condensing	10–90% RH, non-condensing	10–90% RH, non-condensing
Dimensions	476.0 x 362.0 x 55.0 mm	664.0 x 405.0 x 70.0 mm	767.0 x 465.0 x 75.0 mm
VESA mounting	100 x 100 / 200 x 100 mm	100 x 100 / 200 x 100 mm	100 x 100 / 200 x 100 mm
Applications	DR / CT / MRI / PACS workstations	DR / CT / MRI / PACS workstations	DR / CT / MRI / PACS workstations

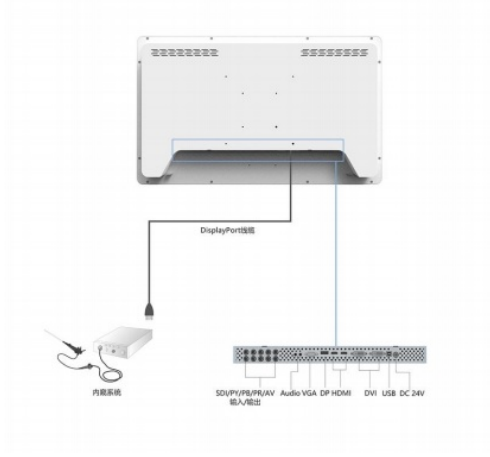
Interfaces and OSD are configurable. Final specifications depend on the selected configuration.

Surgical Monitor Applications

Flexible visualization for surgical workflows.

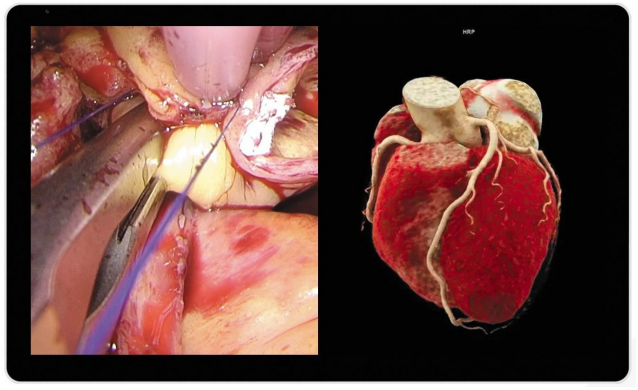
Simplified Connectivity

Connect compatible video sources via HDMI or DisplayPort. The 4K model supports UHD video at 60 Hz through supported inputs.



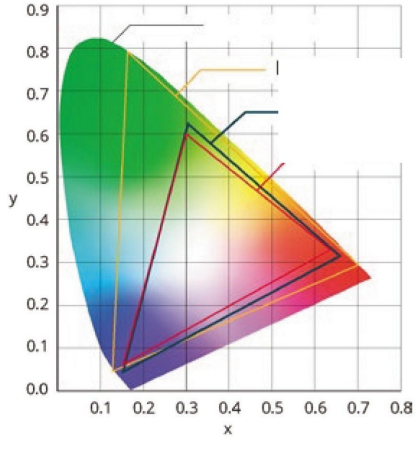
Two Sources, One Screen

Use PbyP for side-by-side viewing or PiP to keep a secondary source visible.



Wide Color Gamut

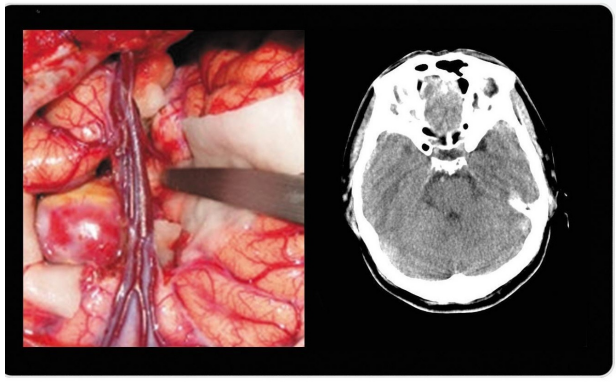
BT.2020 signal support enables integration with compatible surgical video sources.



Independent Image Settings

Adjust each source independently using gamma or DICOM presets to suit different imaging modalities.

DisplayPort Cable · Endoscopy System · Video Inputs and Outputs · Gamma 2.2 · DICOM Preset



Our Products



Open-Frame Touch Monitors

Display solutions for integration into OEM equipment and self-service systems.



Outdoor Touch Monitors

High-brightness PCAP touch displays for outdoor kiosks, cabinets and industrial equipment.



Stretched Bar Touch Monitors

Wide-format displays with custom sizes for retail, transport, industrial and digital signage applications.



All-in-One Touch Panel PCs

Integrated touch computers with Windows, Android or Linux options for different application needs.



Custom Optical Bonding Modules

Display and touch modules configured to your optical and mechanical requirements.



LED-Framed Gaming Touch Monitors

LED Edge series touch displays are widely used in digital gaming, medical and self-service lottery equipment, offering a striking design and smooth touch operation.

Engineered for Demanding Applications

Quality, integrity and continuous innovation guide our product development.

High-specification industrial touch devices for demanding environments.



Industrial Touch Monitors for Harsh Environments

These solutions must be durable enough to withstand harsh environments. Touch displays can be redesigned and reinforced to cope with high and low temperatures, strong impacts, electromagnetic interference (EMI) and vibration.

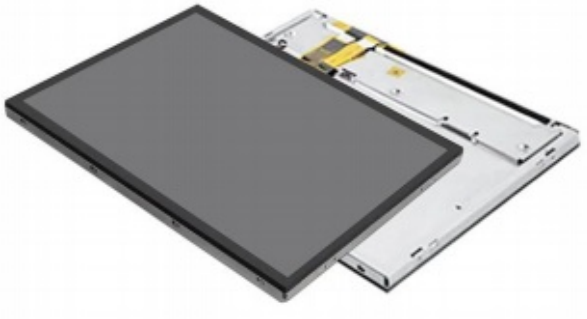
Marine Displays

Marine monitors use optical bonding for accurate touch operation, robustness, long service life, and improved clarity and readability in direct sunlight. Designs can be configured and evaluated against IEC 60945 requirements to address project-specific safety and performance needs.



Optical Bonding Solutions

The OCR optical bonding process meets high-reliability requirements in vehicle, industrial, aviation and medical display applications. Silicone bonding materials offer UV and high-temperature resistance, with durability tailored to the application.





Quality & Certifications

20+
High-Tech Products

40+
Software Registrations

60+
Copyright Registrations



Certifications & Compliance

CE · FCC · RoHS · CCC · ISO 9001 · CB

Quality, Integrity and Innovation

We remain committed to reliable quality, business integrity and continuous technological innovation.



- Committed to quality, integrity and innovation.
- Focused on industrial products for harsh environments, with long service life tailored to application requirements.
- Customer-focused support with direct access to engineers, developers and management.
- Serving more than 40 countries with attractive, reliable and innovative products.

- Our goal: To become your preferred supplier of touchscreen products and solutions.
- Our values: Customer satisfaction is our highest priority.
- Excellent image quality for diverse applications, with finger and gloved-touch options.
- Continuous improvement in R&D, design, manufacturing processes and quality management.



Working with You to Achieve Your Goals



Technological innovation is at the heart of PromptControl. Our broad product range and customization capabilities meet diverse customer needs.



Flexible business models create value for customers and partners. Rigorous production management and quality assurance support reliable performance in demanding environments.



With over 10 years of touchscreen expertise and a commitment to craftsmanship, we have earned the trust of customers worldwide. Wherever you are and whatever the size of your business, we provide professional service and support tailored to your needs.

Medical Imaging, Connected



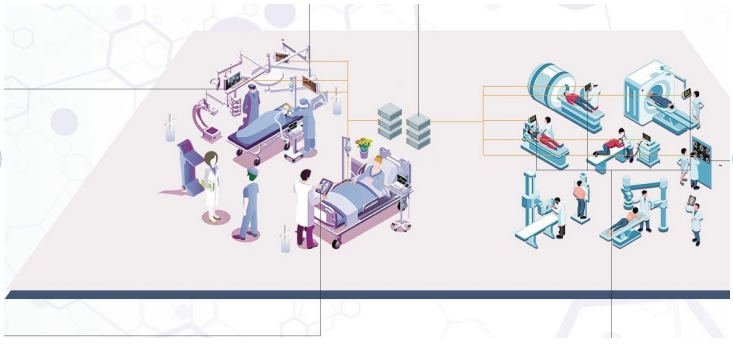
Surgical Monitor

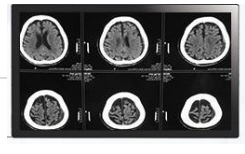


Video Management

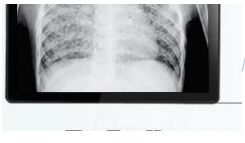


Operating Room Display

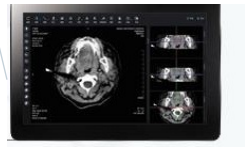




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