STARKSTROM
Innovation at our core

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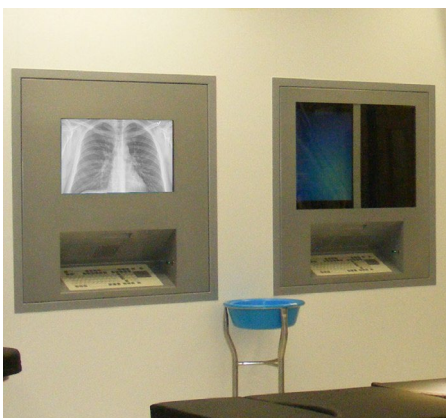# Picture Archiving and Communication (PACs) Viewer

Product Description

Our Picture Archiving and Communication (PACs) Viewer has been specifically designed for the clinical environment. Its design and construction are based on our extensive experience and knowledge gained from designing, manufacturing, and supplying a broad range of products specifically for operating rooms and other high care areas.

The PACs viewers are flush mounted, with wipe clean membrane keyboards and trackpads, which minimises the risk of infection and reduces clutter in the operating room.

Features and Benefits

- Infection control friendly and easy to clean with complete integral membrane keyboard and trackpad.
- Requiring little additional work or expense to support the panel within the wall.
- Can incorporate low IP rated equipment in separate membrane panel which does not have the full integrity of the main panel.
- Matching X-ray / eTCP available.

- Flexibility to accommodate late changes in specifications.
- Modern appearance complimenting today's hi-tech theatres.
- Safety – Monitors and PC mounted behind toughened glass.
- Increased usable clinical workspace.

Monitors

All monitors are professional grade units. The monitors are available in sizes of 24, 27, 30, 40 and 46inch, giving a large range of resolutions, aspect ratios and visible areas to satisfy all clinical workplace requirements.
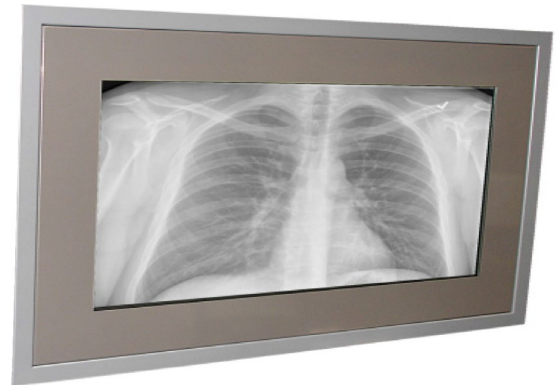
Configurations

Each variation is available with either front or rear access. Monitors can be oriented in a single or twin screen configuration. Single configurations have landscape-oriented monitors, while twin configurations may have portrait or landscape-oriented monitors.

Keyboard and Trackpad

PACs viewers can be specified with or without a keyboard and trackpad. If required, the PACs viewer is fitted with an 88 key recessed and angled IP66 keypad with associated trackpad.
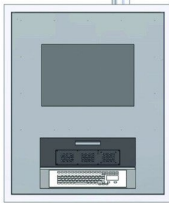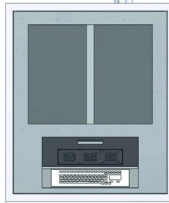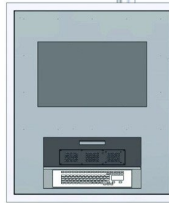
The keypad is resistant to chemicals and abrasion and is easy to keep clean and free from dirt and infectious material. Where user input is not required, or when the PACs is being used in conjunction with another PACs viewer which does not have a keyboard and trackpad supplied, then the keypad and trackpad is omitted.
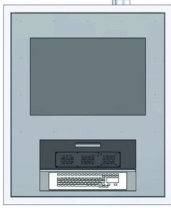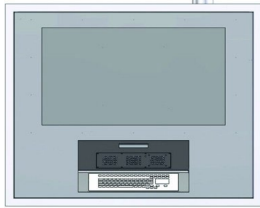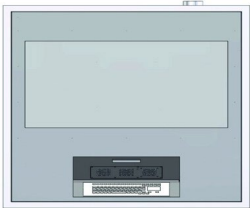

Optional Features

The following features can be added to your chosen PACs viewer during design and manufacture:

• User Access Card Reader
• DVD Writer
• External Communication Ports
• AV integration (subject to configuration).

Dimensions in mm unless stated	Single 24" Landscape	Twin 24" Portrait	Single 27" landscape
Monitor Model	MultiSync PA242W *	2x MultiSync PA242W *	MultiSync PA272W *
Wall Recess Dims. (h x w x d)	1000 x 900 x 230	1000 x 900 x 230	1000 x 900 x 230
Front Dims. (h x w)	1040 x 940	1040 x 940	1040 x 940
Visible Area Dims. (h x w)	325.5 x 519.5	519.5 x691.5(-40.5)	337.5 x 599
Resolution @ 60Hz (w x h)	1920 x 1200	2x 1200 x 1920	2560 x 1440
Brightness (cd/m^2)	340	340	340
Contrast Ratio	1000:1	1000:1	1000:1
Aspect Ratio	16:10	10:16 (per screen)	16:9
Response Time (ms)	8	8	6
Pixel Pitch (mm)	0.27	0.27	0.23
Weight (kg)	100	120	105
DICOM Compliant	Yes	Yes	Yes
Panel Access	Front (*rear, optional*)	Front (*rear, optional*)	Front (*rear, optional*)
AV Compatible	Yes	No	Yes

Dimensions in mm unless stated	Single 30" Landscape	Single 40" Landscape	Single 46" Landscape
Monitor Model	MultiSync PA302W *	P403*	P463*
Wall Recess Dims. (h *x* w *x* d)	1000 x 900 x 230	1000 x 1200 x 230	1300 x 1200 x 230
Front Dims. (h *x* w)	1040 x 940	1040 x 1240	1340 x 1240
Visible Area Dims. (h *x* w)	401.5 x 642.5	500 x 887	574 x 1020
Resolution @ 60Hz (w *x* h)	2560 x 1600	1920 x 1080	1920 x 1080
Brightness (cd/m^2)	340	500	500
Contrast Ratio	1000:1	3000:1	3500:1
Aspect Ratio	16:10	16:9	16:9
Response Time (ms)	6	8	8
Pixel Pitch (mm)	0.25	0.461	0.53
Weight (kg)	120	125	170
DICOM Compliant	Yes	Yes	Yes
Panel Access	Front (*rear, optional*)	Front (*rear, optional*)	Front (*rear, optional*)
AV Compatible	Yes	Yes	Yes

* = Equal or better

AV Compatible = Suitable for additional remote displays in the clinical field, assuming corresponding video card option is fitted (*optional*)

PC Specification

	Standard Specification	Mid-range Specification	High Specification
CPU	Intel Core i3-3220T*	Intel Core i5-3570T*	Intel Core i7-3770T*
CPU Pass Mark	3725	5483	8729
RAM	4GB	4GB	8GB (2 x 4GB)

All PACs units have the following: 500Gb HDD, 4x Internal USB Ports, 2x Internal Gb Ethernet Ports, 2x Internal RS232 Ports, Windows 7 Pro 64bit.

Video Card (If fitted)

Single or Twin Screen	Standard On-board (1x DP@4Mp + 1x DVI@2Mp + 1x HDMI@2Mp) 2 of 3 useable
Twin Screen up to 4Mp	Matrox M9128 dual DP/DVI
Quad Screen up to 4Mp	Matrox M9148 quad DP/DVI

Product legislation and standards of conformity

EU Ref	EU Title	UK Ref	UK Title
2014/ 35/EU	Low Voltage Directive	2016/ 1101	Electrical Equipment (Safety) Regulations 2016
2014/ 30/EU	Electromagnetic Compatibility Directive	2016/ 1091	Electromagnetic Compatibility Regulations 2016
2011/ 65/EU	Restriction of Hazardous Substances (RoHS) Directive	2012/ 3032	The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

Reference	Title	Edition
EN 61439-1	Low voltage switchgear and control gear assemblies Part 1. General rules	2012
EN 61439-2	Low voltage switchgear and control gear assemblies. Part 2: Power switchgear and control gear assemblies	2012
EN 61439-1	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	2012 Annex J