

EDUCATION RANGE 2015/16

LCD Projectors and Interactive Flat Panels

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*1: A free replacement lamp will be issued if the original lamp is less than 6 months old and it has only been used for less than the hours stated (in Eco Mode) on the lamp warranty from the date of first use. *2: A free replacement lamp will be issued if the original lamp is less than 3 years old and it has only been used for less than the hours stated (in Eco Mode) on the lamp warranty from the date of first use. Where a lamp fails and a replacement lamp is taken under warranty, the duration of the warranty for the replacement lamp shall be the remainder of the original warranty period only. The stated lamp and filter life refers to the average life expected in ideal operating conditions with usage in accordance with the manual. The majority of, but not all, filters and lamps should achieve these figures. The specification and photography listed is for reference only and may be subject to change.

Hitachi Education Range

Innovative, high quality technology, designed to bring ideas to life, engage and inspire the next generation.

Bringing our world of technological experience to your classroom, makes learning a pleasure and lessons intuitive. We understand the constraints of budgets and time, so have designed products that make the most of every lesson.

Projectors

A range of projectors designed for a wide range of applications. Reliable, cost effective and versatile, they will enhance any lesson or lecture.



CP-EX251N



CP-EW301N



CP-EX301N



CP-CX251N



CP-AX2505

LOW COST OF OWNERSHIP

INTELLIGENT ECO MODE

Intelligent Eco Mode automatically adjusts the lamp power and contrast ratio, depending on the brightness of the image on screen. Decreasing power by up to 70% when the image is dark and increasing it up to 100%, if the image is bright. This ensures the projector uses the optimum power for each image, reducing the amount of energy required and lengthening the life of the projector lamp.

SAVER MODE

If the projected image does not change within a set time of between 1 to 30 minutes, the screen saver mode automatically reduces lamp power by 70%, ensuring power use is kept to a minimum.

LONG LAMP LIFE

We have extended the life of your lamp by up to 10,000 hours, that's the equivalent to 4-6 hours a day for ten years making maintenance simple and cost effective.

RELIABILITY

DESIGNED TO PERFORM

All our projectors have been designed to give bright crisp images day after day, lesson after lesson. Knowing we have tested and retested every projector we produce to the limit, allows you to concentrate on the important things, like delivering exciting, engaging, memorable lessons.

ADVANCED NETWORK CONNECTIVITY

WIRELESS CAPABILITY

Wireless capability is an incredibly simple, flexible and practical solution for giving presentations or lessons in busy classrooms. The optional USB adaptor supports all IEEE 802.11b/g/n networks and enables your projector and computer to communicate directly via a wireless network.

CENTRALISED MANAGEMENT AND REPORTING

Make maintenance simpler by managing and controlling multiple projectors through your local area network from a single PC. Allowing you to log any projector that is due for maintenance, turn individual projectors on or off automatically, or create html reports.

iOS CONNECTIVITY

Users can wirelessly display documents, images or web pages from their iPad, iPod Touch and iPhone on one of our LCD projectors using our PJ Connection app.



MESSENGER FUNCTION

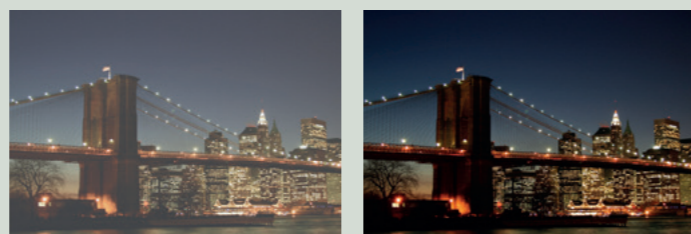
Our Messenger function allows you to send messages to multiple networked projectors instantly or at specified times. Perfect for sharing any information that needs to go out to a large number of people quickly.

IMAGE QUALITY

HDCR AND ACCENTUALIZER

Hitachi's original Accentualizer technology makes pictures look more real by enhancing sharpness, gloss and shade. This can be adjusted by three levels according to your surroundings, by simply using one button on the remote control.

Our High Dynamic Contrast Range technology (HDCR) corrects blurred or poor quality images caused by bright environments. Resulting in, clear high contrast images even in the lightest classrooms.



COST EFFECTIVE

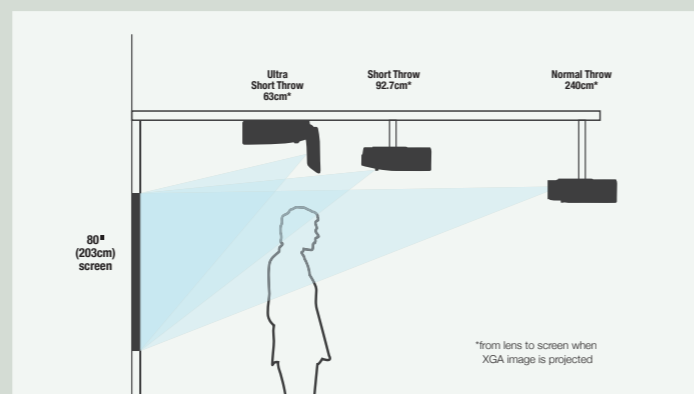
VALUE FOR MONEY

With more and more demands being made on education these days, we realise every penny saved is important, every minute equipment not used, a waste. So we have invested all our experience and knowledge to bring you cost effective, innovative, reliable projectors. Making sure you enjoy using state of the art technology and your class enjoy effective, interactive and memorable learning.

ULTRA SHORT THROW TECHNOLOGY

INNOVATIVE SHORT THROW TECHNOLOGY

Project bright, clear, undistorted images in even the most compact spaces without having to face the glare from conventional projectors. Wall mounts and optional table top kits make them extremely flexible, allowing them to be used anywhere, transforming any whiteboard, table top, or wall into an exciting place of learning.



| Optical | CP-EW301N | CP-EX251N | CP-EX301N | CP-CX251N | CP-AX2505 |
|---------------------------------|---|---|---|---|---|
| Resolution | WXGA (1280 x 800) | XGA (1024 x 768) | XGA (1024 x 768) | XGA (1024 x 768) | XGA (1024 x 768) |
| Light Output (Brightness) | 3000 Lumens (Normal) / 2460 Lumens (Eco1) / 2010 (Eco2) | 2700 ANSI Lumens (Normal) / 2214 ANSI Lumens (Eco1) / 1809 ANSI Lumens (Eco2) | 3200 ANSI Lumens (Normal) / 2624 ANSI (Eco1) / 2144 ANSI (Eco2) | 2500 ANSI Lumens (Normal) / 2050 ANSI Lumens (Eco1) / 1675 ANSI Lumens (Eco2) | 2700 Lumens (Normal) / 2214 Lumens (Eco1) / 1809 Lumens (Eco2) |
| Liquid Crystal Panel Structure | 0.59" (1.5cm) P-Si TFT x 3 | 0.63" (1.6cm) P-Si TFT x 3 | 0.63" (1.6cm) P-Si TFT x 3 | 0.63" (1.6cm) P-Si TFT x 3 | 0.63" aspect ratio 4:3 |
| Contrast Ratio | 2000:1 | 2000:1 | 2000:1 | 2000:1 | 10000:1 |
| Noise | 37dB (Normal) / 32dB (Eco1) / 29dB (Eco2) | 37dB (Normal) / 32dB (Eco1) / 29dB (Eco2) | 37dB (Normal) / 32dB (Eco1) / 29dB (Eco2) | 36dB (Normal) / 32dB (Eco1) / 29dB (Eco2) | 34dB (Normal) / 32dB (Eco1) / 28dB (Eco2) |
| Lamp Life (Hours)* | 5000 hours (Normal) / 8000 hours (Eco1) / 10000 hours (Eco2) | 5000 hours (Normal) / 8000 hours (Eco1) / 10000 hours (Eco2) | 5000 hours (Normal) / 8000 hours (Eco1) / 10000 hours (Eco2) | 5000 hours (Normal) / 8000 hours (Eco1) / 10000 hours (Eco2) | 5000 hours (Normal) / 8000 hours (Eco1) / 10000 hours (Eco2) |
| Display Size | 30" ~ 300" (76 ~ 762cm) | 30" ~ 300" (76 ~ 762cm) | 30" ~ 300" (76 ~ 762cm) | 60" ~ 100" (152 ~ 254cm) | 60" ~ 100" (152 ~ 254cm) |
| Throw Distance | 0.9 ~ 11.5m | 0.9 ~ 10.9m | 0.9 ~ 10.9m | 0.691 ~ 1.838m | 0.103 ~ 0.463m |
| Lens | Manual focus, manual zoom x1.2 | Manual focus, manual zoom x1.2 | Manual focus, manual zoom x1.2 | Manual focus, digital zoom x1.35 | Powered focus, digital zoom x1.35 |
| Keystone Correction | 13:1 upward shift, fixed | 6:1 upward shift, fixed | 6:1 upward shift, fixed | Fixed 11.1:-1 upward shift | Fixed 7.7:-1 upward shift |
| Distance to Width Ratio (:1) | 1.5 (Wide), 1.8 (Tele) | 1.5 (Wide), 1.8 (Tele) | 1.5 (Wide), 1.8 (Tele) | 0.6 | 0.3 |
| Physical | | | | | |
| Weight | 3.0Kg | 3.1Kg | 3.1Kg | Approx. 3.4Kg | 4.3Kg |
| Dimensions (W x H x D) | 320 x 85 x 245mm (excluding feet and extrusions) | 320 x 85 x 245mm (excluding feet and extrusions) | 320 x 85 x 245mm (excluding feet and extrusions) | 345 x 85 x 303mm (excluding feet and extrusions) | 377 x 136 x 360mm (excluding feet and extrusions) |
| Power Consumption / Standby | 310W / 0.5W at saving mode | 310W / 0.5W (AC 220-240V) at saving mode | 310W / 0.5W (AC 220-240V) at saving mode | 290W / <0.5W (AC 220-240V) at saving mode | 310W / <0.35W (AC 220-240V) at saving mode |
| Speakers | 16W x 1 (mono) | 16W x 1 (mono) | 16W x 1 (mono) | 1W x 1 (mono) | 16W x 1 (mono) |
| Filter* | Unwoven (up to 5000 hours) | Unwoven | Unwoven | Hybrid (up to 4000 hours) | Hybrid (up to 4000 hours) |
| Connections | | | | | |
| Digital Input | 1 x HDMI (HDCP compatible) | 1 x HDMI (HDCP compatible) | 1 x HDMI (HDCP compatible) | 1 x HDMI (HDCP compatible) | 2 x HDMI |
| Computer Input | 2 x 15-pin Mini D-sub | 2 x 15-pin Mini D-sub | 2 x 15-pin Mini D-sub | 2 x 15-pin Mini D-sub | 2 x 15-pin Mini D-sub |
| Computer Output | 1 x 15-pin Mini D-sub | 1 x 15-pin Mini D-sub | 1 x 15-pin Mini D-sub | 1 x 15-pin Mini D-sub | 1 x 15-pin Mini D-sub |
| Video Input | 1 x RCA for composite | 1 x RCA for composite | 1 x RCA for composite | 1 x RCA connector | 1 x RCA composite |
| Audio Input | 2 x 3.5mm stereo mini connector, 1 x pair RCA (L/R) | 2 x 3.5mm stereo mini connector, 1 x pair RCA (L/R) | 2 x 3.5mm stereo mini connector, 1 x pair RCA (L/R) | RCA (L/R) connector x 1 | 1 x stereo mini jack, 1 x pair RCA (L/R), 1 x microphone |
| Audio Output | 1 x 3.5mm stereo mini connector | 1 x 3.5mm stereo mini connector | 1 x 3.5mm stereo mini connector | 1 x RCA (L/R) connector | 1 x 3.5mm stereo mini connector |
| Control | 1 x 9-pin D-sub for RS-232C control | 1 x 9-pin D-sub for RS-232C control | 1 x 9-pin D-sub for RS-232C control | 1 x 9-pin D-sub for RS-232C control | 1 x 9-pin D-sub for RS-232C control |
| Wireless LAN / Wired LAN | No / Yes | No / Yes | No / Yes | No / Yes | Yes / Yes |
| PC-Less Presentation USB Type A | No | No | No | No | Yes |
| Mouse Control USB Type B | Yes | Yes | Yes | Yes | Yes |
| Wired Remote Control | No | No | No | No | No |
| Compatibility | | | | | |
| Computer | IBM Compatibility VGA, SVGA, XGA, WXGA, WXGA+, SXGA, SXGA+, UXGA (compressed), MAC 16" | IBM Compatible VGA, SVGA, XGA, WXGA / WXGA+ / SXGA / SXGA+ / UXGA (compressed), MAC16" | IBM Compatible VGA, SVGA, XGA, WXGA / WXGA+ / SXGA / SXGA+ / UXGA (compressed), MAC16" | IBM Compatible VGA, SVGA, XGA, WXGA, WXGA+, SXGA, SXGA+, UXGA (compressed), MAC 16" | IBM Compatible VGA, SVGA, XGA, WXGA / WXGA+ / SXGA / SXGA+ / UXGA (compressed), MAC16" |
| Video | 525i(480i), 525p(480p), 625i(576i), 1125p(1080p@50/60) | 525i(480i), 525p(480p), 625i(576i), 1125i(1080i@50/60), 750p(720p@50/60), 1125p(1080p@50/60) | 525i(480i), 525p(480p), 625i(576i), 1125i(1080i@50/60), 750p(720p@50/60), 1125p(1080p@50/60) | 525i(480i), 525p(480p), 625i(576i), 1125i(1080i@50/60), 750p(720p@50/60), 1125p(1080p@50/60) | 525i(480i), 525p(480p), 625i(576i), 1125i(1080i@50/60), 750p(720p@50/60), 1125p(1080p@50/60) |
| Accessories Included | | | | | |
| Remote Control (with batteries) | HL03031 | HL03031 | HL03031 | HL03035 | HL03033 |
| Other | Remote control HL03031 | Power cable, computer cable, user manual | Power cable, computer cable, user manual | Power cable, computer cable, user manual, lens cover | USB wireless adapter USB-WL-11N, Wall mount unit HAS-WM03 / HAS-WM05, TT-03 Table Top Kit for A7, HAS-WB01 XGA mount adaptor, HAS-WB02 WXGA mount adaptor |
| Replacement Lamp / Lamp Wattage | DT01481 | DT01481 / 225W | DT01481 / 225W | DT01511 / 225W | DT01511 / 225W |
| Projector / Lamp Warranty | 3 Years / 3 Years** (for education and extended warranties please contact your local dealer.) | 3 Years / 3 Years** (for education and extended warranties please contact your local dealer.) | 3 Years / 3 Years** (for education and extended warranties please contact your local dealer.) | 3 Years / 3 Years** (for education and extended warranties please contact your local dealer.) | 3 Years / 3 Years** (for education and extended warranties please contact your local dealer.) |

Interactive

The smart new Hitachi Interactive products have been designed to be simple to use and effective in the classroom. So all you need to do is walk in, turn it on and inspire.



HIT-FHD6516PC Touch
FHD-8410PC



CP-TW2505

SIX PERSON MULTI TOUCH

MULTI TOUCH TECHNOLOGY

Hitachi multi touch technology brings exceptional interaction and brightness to your lessons allowing up to ten[†] students to work together simultaneously. So instead of just watching, they can take part, personalise and interact with the on-screen content.

Integrated infrared sensors detect contact with the screen, giving you the ability to control your display by touching the image with the supplied stylus pen or your finger[^]. It has 100% light transmission because the technology is not an overlay, is incredibly accurate and maintains good performance even under direct light.



[†] Up to 6 with CPTW2505 & HIT-FHD6514/6516. Up to 10 with FHD-8510PC.
[^] FT-01 unit must be added to CP-TW2505 to enable finger touch.

SCREEN FREEZE

SCREEN FREEZE

When working from a remote device, HIT-FHD6516 screen freeze feature lets you continue working without the audience knowing. This allows you to make your presentations more dynamic by editing and revealing new information in real time.

OPTIONAL BUILT IN PC

OPTIONAL BUILT IN PC

The option of an integrated PC eliminates the need to connect to an external source, so your Interactive Flat Panel Display is ready to use the moment it is switched on. It is also Bluetooth enabled, for convenient use with headsets, mouse or keyboard.

BUILT TO LAST

DURABLE

The Interactive Panel has 5mm toughened glass and a steel bezel surround, making it extremely strong and robust enough to work in even the busiest classrooms.

MOBILE HIGH DEFINITION LINK

MOBILE HIGH DEFINITION LINK

Hitachi Interactive Flat Panel and CP-TW2505 products come with a Mobile High Definition Link, which allows you to connect to your mobile phone, tablet or other portable device. Enabling Students and teachers to share their screens.



| Optical | HIT-FHD6516PC TOUCH | FHD8410PC | Optical | CP-TW2505 |
|--|---|--|---------------------------------|--|
| LCD Component | 65" TFT LCD [64.5" (163.8 cm) diagonal] | 84" (2134.6 mm) diagonal | Resolution | WXGA (1280 x 800) |
| Backlight | Edge LED | Edge LED | Light Output (Brightness) | 2700 Lumens (Normal) / 2214 Lumens (Eco1) / 1809 Lumens (Eco2) |
| Max. Resolution | 1,920 x 1,080 | 1,920 x 1,080 | Liquid Crystal Panel Structure | 0.59" aspect ratio 16:10 |
| Max. Colours | 1.07 billion colours | 1.06 billion colours (Dithered 10bit) | Contrast Ratio | 10,000:1 |
| Brightness | 360 cd/m ² | 350 cd/m ² | Noise | 34dB (Normal) / 32dB (Eco1) / 28dB (Eco2) |
| Contrast Ratio | 4000:1 | 1400:1 | Lamp Life (Hours)* | 5000 hours (Normal) / 8000 hours (Eco1) / 10,000 hours (Eco2) |
| Viewing Angle (H/V) | 178° / 178° | 178° / 178° | Display Size | 60-100" (152-254cm) |
| Video Colour System | 480i, 480P, 576P, 720P, 1080i/30, 1080i/50, 1080P/24 | 640 x 480, 800 x 600, 1024 x 768, 1280 x 720, 1280 x 7 68, 1280 x 960, 1280 x 1024, 1400 x 1050, 1440 x 900, 1920 x 1080 (Progressive 60Hz) | Throw Distance | 0.126-0.41m |
| Signal (Analog) | VGA, SVGA, XGA, WXGA, FULL-HD | VGA, SVGA, XGA, WXGA, FULL-HD | Lens | Powered focus, digital zoom x1.35 |
| Panel Life Time | 30,000 hours | 50,000 hours | Keystone Correction | Fixed 4.6:-1 upward shift |
| Frequency | 60Hz | 60Hz | Distance to Width Ratio (-1) | 0.3 |
| Touch Screen | Infrared Touch Screen (6 points touch screen support) | Infrared Touch Screen (10 points touch screen support) | Interactive Features | Up to 6pen / touch finger write (option), PC less interactive, Windows 8 multi touch operation with up to 6pen / touch (option) |
| Glass | Anti-Glare | Anti-Glare | Physical | |
| Input Terminals | | | Weight | <4.5Kg |
| Digital | HDMI x 2 supporting HDCP decoding | HDMI x 2 supporting HDCP decoding | Dimensions (W x H x D) | 377 x 136 x 360mm (excluding feet and extrusions) |
| Analog | VGA x 1 D-Sub 15 pin | VGA x 1 D-Sub 15 pin | Power Consumption / Standby | 330W / <0.35W (AC 220-240V) at saving mode |
| PLUG & PLAY | DDC2B (VESA) for Computer HDMI-1,VGA | DDC2B (VESA) for Computer HDMI, VGA | Speakers | 16W x 1 (mono) |
| Audio | Microphone mini 3.5mm jack x 1, Line out 3.5mm x 1 | Microphone mini 3.5mm jack x 1, Line out 3.5mm x 1 | Filter* | Hybrid (up to 4000 hours) |
| Control (RS-232C) | D-Sub 9pin x 1 for device control | D-Sub 9pin x 1 for device control | Connections | |
| USB Type A | USB x1 (for external usage of Touch screen) | USB B-type connector x1 (for external usage of Touch screen) | Digital Input | 2 x HDMI |
| Output Terminals | | | Computer Input | 2 x 15-pin Mini D-sub |
| Audio | Line out (3.5mm mini jack) x 1 | Line out (3.5mm mini jack) x 1 | Computer Output | 1 x 15-pin Mini D-sub |
| Control (RS-232C) | D-sub 9 pin x 1 | D-sub 9 pin x 1 | Video Input | 1 x RCA composite |
| For External Speaker | Total 20W | Total 30W | Audio Input | 1 x stereo mini jack, 1 x pair RCA (L/R), 1 x microphone |
| OSD | Independent from languages, the OSD is iconic | Independent from languages, the OSD is iconic | Audio Output | 1 x stereo mini jack |
| Screen Freeze | Screen Freeze Capability | No | Control | 1 x 9-pin D-sub for RS-232C control |
| Speaker | 10W + 10W | 15W + 15W | Wireless LAN / Wired LAN | Yes / Yes |
| TouchPanel | | | PC-Less Presentation USB Type A | Yes |
| Detection Method | Infrared blocking detection method, 6516 – 6 touch | Infrared blocking detection method, 8410 – 10 touch | Mouse Control USB Type B | Yes |
| Detection Area | 1428.48mm (H) x 803.52mm (V) | 1871±2 (H) x 1057±2 (V) mm | Wired Remote Control | No |
| Touch Accuracy | ±2mm (over 90% Area) | 1mm | Compatibility | |
| PC Connector | USB 2.0 | USB 2.0 | Computer | IBM Compatible VGA, SVGA, XGA, WXGA / WXGA+ / SXGA / SXGA+ / UXGA (compressed), MAC16" |
| Driver | Win7/8 32/64bits OS inbox driver and driver for touch screen calibration | Win Multi Touch, Mac single touch support | Video | 525i(480i), 525(480p), 625i(576i), 1125i(1080i@50/60), 750p(720p@50/60), 1125p(1080p@50/60) |
| Touch Pen | Passive stylus, finger or any IR opaque object. | Yes | Accessories Included | |
| Power Requirement | 220V ~ 50Hz 1.2 A | 110-240V 50-60Hz | Remote Control (with batteries) | HLD3033 |
| Operating / Storage Temperature | Operating temperature: 0 - 50° celsius Storage temperature: -15 - 50° celsius | Operating temperature: 0 - 40° celsius Storage temperature: -15 - 50° celsius | Optional accessories | Finger Touch Unit FT-01, USB wireless adaptor USB-WL-11N, Table top mount TT-03, Wall mount adaptor (XGA) HAS-WB01, Wall mount adaptor (WXGA) HAS-WB02, Interactive pen I-PEN4 |
| Operating / Storage Humidity | 90% relative humidity non-condensing | 90% relative humidity / 90% relative humidity | Replacement Lamp / Lamp Wattage | DT01511 / 225W |
| Power Consumption Operating / Standby | 270W / 1W | 520W / 2.4W | Projector / Lamp Warranty | 3 Years / 3 Years** (for education and extended warranties please contact your local dealer) |
| Dimensions (mm) | 1,562 x 93 x 960 | 1954 x 1139 x 109 | | |
| Weight | 57Kg | 106Kg | | |
| Colour | White Bezel | White Bezel | | |
| Main Accessories | Power Cable (1450mm), IB, Remote Controller and Battery (CR2025 3V), HDMI Cable (1500mm), Dipole Wi-Fi antenna, Stylus Pen, Driver DVD, VESA Wall Mount | Remote Controller and Battery (CR2025 3V), Power Cable, Instruction Book, HDMI cable, 2 Antenna (PC Version), Driver DVD, Wall Mount Kit, USB A-B cable (non-PC Version) | | |
| Optional Accessories | Stylus Pen, USB A - B cable (non-PC Version) | Stylus Pen | | |
| Remote Control Certification | Protocol: NEC6122 Carrier Frequency: 37.92KHz RoHs, CB, S-Mark | Protocol: NEC6122 Carrier Frequency: 37.92KHz RoHs, CB, S-Mark | | |
| VPS PC Specification (optional) | | | | |
| Processor | Intel® 3rd Generation Core™ i3-i5 | Intel 4000M i3 | | |
| Operating System | Windows 8.1 Pro 64-bit | Windows 8.1 Pro 64-bit | | |
| Chipset | Intel® HM76 Chipset | HM86 | | |
| Network | | | | |
| WLAN | 802.11 a/b/g/n Dual Band 2.4GHz-5GHz with MIMO support | 802.11 a/b/g/n wireless support with MIMO | | |
| Bluetooth | Bluetooth 4.0 | Bluetooth 4.0 | | |
| LAN | 10/100/1000 Mbps LAN support | 10/100/1000 Mbps LAN support | | |
| USB | 3.0 USB x 2, 2.0 USB x 2 | 3.0 USB x 2, 2.0 USB x 2 | | |
| System Memory | 4GB RAM, 500GB HDD | 4GB RAM, 500GB HDD | | |
| Warranty | 3 Year Warranty** | 3 Year Warranty** | | |



INTERACTIVE SHORT THROW

Download the Layar App and scan the image above to discover the features of our Education Range.