

Цахим сонгон шалгаруулалт, хурлын заалны тоног төхөөрөмж -  
 ЛЕД болон видео удирдлагын системийн техникийн тодорхойлолт

№	Бүтээгдэхүүн нэр	Техник үзүүлэлт	Тоо ширхэг
1	<p align="center"><b>Дотор зориулалтын Лед дэлгэц P1.86</b></p>	<p>ITC C1.86 LED-тэй дүйцэхүйц</p> <p>Дэлгэцийн хэмжээ: 4480*1920mm</p> <p>Дэлгэцийн нягталшил: 2408*1032</p> <p>LED encapsulation: SMD1515 black light</p> <p>Pixel pitch: 1.86mm</p> <p>Resolution: 288906 pixels/m<sup>2</sup></p> <p>Lamp beads/IC: itc designed high quality optical lamp beads</p> <p>Pixel configuration: 1R1G1B</p> <p>Module resolution: 172*86</p> <p>Module size (mm): 320*160</p> <p>Cabinet resolution: 344*258</p> <p>Cabinet size (mm): 640*480</p> <p>Cabinet weight: ≤5.7Kg/piece</p> <p>Working voltage: DC+4.2V~+5V</p> <p>Main parameters</p> <p>Best viewing distance: ≥5.5m</p> <p>Horizontal viewing angle: ≥175°</p> <p>Vertical viewing angle: ≥175°</p> <p>Maintenance method: Front maintenance</p> <p>Control mode: Synchronous control</p> <p>Drive device: Constant current drive</p> <p>Refresh rate: ≥4200Hz</p> <p>Frame rate: ≥60Hz</p> <p>Scanning method: 58S</p> <p>Brightness: 200-800CD/m<sup>2</sup></p> <p>Grayscale: 12/14/16/18bit</p> <p>Contrast: ≥10000:1</p> <p>Attenuation rate (after working for 3 years): ≤15%</p> <p>Brightness adjustment method: Auto/manual: 0-100%</p> <p>MTBF: ≥20000H</p> <p>Lifespan: ≥100000H</p> <p>Failed rate: ≤1/100000 and no continuous failed pixels</p> <p>Storage temperature: -35°C~+85°C</p> <p>Working temperature: -20°C~+60°C</p> <p>Working voltage (AC): 220V±10%/50Hz/60Hz</p> <p>Average power consumption: ≤125W/m<sup>2</sup> at 800CD/m<sup>2</sup> (≤95W/m<sup>2</sup> at 600CD/m<sup>2</sup>)</p> <p>Maximum power consumption: ≤500W/m<sup>2</sup> at 800CD/m<sup>2</sup> (≤380W/m<sup>2</sup> at 600CD/m<sup>2</sup>)</p> <p>Cabinet material: Die-cast aluminum cabinet</p> <p>Brightness uniformity: ≥99%</p>	8.6 м2

		<p>Хагас дугуй угсрагдах зориулалттай</p> <p>Module connection: HUB</p> <p>Кабинет хооронд сигнал болон тэжээл утасгүй зориулалтын холбоосоор холбогдоно</p> <p>Protection class: IP5X The LED display switch power supply has P FC function, power factor <math>\geq 0.95</math>, power efficiency <math>\geq 91\%</math> @ 25 °C, and has over-current, short-circuit, over-voltage, under-voltage protection functions. The LED video wall flame retardant level reaches V-0 level.</p> <p>The LED video wall has a low blue light mode, and the blue light output of the display screen can be adjusted by 30%, 40% and 70% in the control software</p>	
2	<b>Лед нэмэлт сэлбэг</b>	Лед дэлгэцийн нэмэлт сэлбэг модулиуд, хүлээн авагч карт, тэжээлийн блок	0.26 м2
3	<b>Тогтоогч төмөр</b>	Лед дэлгэц тогтооход ашиглана.	8.6 м2
4	<b>Видео процессор</b>	<p>TV-81X6 Input interface</p> <p>HDMI*1: HDMI 1.4 specification, support 1920*1200@60Hz, support HDCP</p> <p>DVI*2:VESA standard, support 1920*1200@60Hz, support HDCP</p> <p>SDI*1:3G SDI standard, support 1080p, 1080i, 720p</p> <p>AUDIO IN*1: 3.5mm interface, support audio input</p> <p>Output interface</p> <p>Port*6 : RJ45, 6-channel Gigabit Ethernet port output, can be spliced arbitrarily up, down, left and right</p> <p>AUDIO OUT*1: 3.5mm interface, support audio output, support HDMI audio analysis output</p> <p>Control interface</p> <p>RS232*1:RJ11 interface, can be connected to the central control</p> <p>USB_OUT*1:USB output for cascading between devices</p> <p>USB_IN*1: USB input, connect to PC for debugging parameters</p> <p>Power supply: 100~240VAC</p> <p>Equipment size:Standard 1U chassis</p> <p>Equipment weight: 3.07Kg</p> <p>Rated power: 30W</p>	1 ш
5	<b>Утасгүй дэлгэц шилжүүлэгч</b>	<p>WP40 Interface: HDMI OUT 1.4*1, USB*2, RJ45*1, Earphone*1, DC Power Jack*1 System Android 9.0</p> <p>Main Frequency: 1.1GHz-1.5GHz</p> <p>Frame Rate: Up to 60 fps depending on environment (UHD)</p> <p>Output Resolution: Max 3840*2160P(4K)</p> <p>Input Resolution (wireless transmission): Max 3840*2160P(4K)</p>	1 ш

		<p>Simultaneous Connections(Buttons): 8 pcs</p> <p>Max. Display Windows:4 pcs</p> <p>Audio:Stereo, Radio quality 16bits 48KHz</p> <p>Wireless Transmission Band:2.4 GHz &amp; 5 GHz (dual band WIFI)</p> <p>Wireless Transmission Protocol:IEEE 802.11 a/b/g/n</p> <p>Data rate Wireless: Up to 800Mb</p> <p>Authentication Protocol: WPA2-PSK(Pre-Share Key)</p> <p>Security(encryption): AES</p> <p>Interface:HDMI OUT 1.4*1, USB*2, RJ45*1, Earphone*1, DC Power Jack*1</p> <p>Main Frequency: 1.1GHz-1.5GHz4*Cortex-A53</p> <p>RAM: 2G</p> <p>ROM: 8G</p> <p>Power Supply: DC5V, 2A</p> <p>Power Consumption : 24W</p>	
6	<p><b>Микрофон нэгтгэлтийн төхөөрөмж</b></p>	<p>TS-0300M Microphone capacity: Wired microphone≤4096; wireless microphone≤300</p> <p>Simultaneous interpretation channel: 63+1 channels</p> <p>Frequency response: 80~16KHz</p> <p>SNR: &gt;78dB(A)</p> <p>Dynamic range: &gt;80dB</p> <p>THD: &lt;0.05%</p> <p>Main power: 100-120VAC/200-240VACbyswitch</p> <p>Audio input: LINEIN1: 775mVrms balanced; 2 output phoenix terminals: 775mVrms balanced; LINEIN2: 775mVrms unbalanced</p> <p>Audio output: LINEOUT1: 1Vrms balanced; 16 multi-function output phoenix terminals: 1Vrms balanced; LINEOUT2: 1Vrms unbalanced</p> <p>Output load: &gt;1KΩ</p> <p>EXTENSION port: Connected to conference system extension devices</p> <p>DANTE/NC port: Connected to external devices of DANTE protocol</p> <p>WIFI network port: Connected to wireless AP</p> <p>PC network port: Connected to computer</p> <p>Static power consumption: 30W</p> <p>Output power consumption: 320W</p> <p>Wired microphone connection method: Special cable (6 pins)</p> <p>Touch screen: 4.3-inch fu×olor touch screen</p> <p>Colour:Black</p> <p>Net weight: 5.6Kg</p> <p>Dimension: 484×303×88mm (L×W×H)</p> <p>Installation method:19-inch standard cabinet</p>	1 ш

7	<b>Камер холигч</b>	L2 Plus Multi-Camera Video Mixer Switcher with 5.5" LCD Touch Screen PTZ Control Chroma Key Built-in Chroma Key and Logo Overlay USB3.0 Live Streaming	1 ш
8	<b>Утасгүй микрофон өсгөгч</b>	TS-W116H Wireless Микрофоны сүлжээ өсгөгч Ethernet port:2*10/100/1000Mbps ETH/PoE IN interfaces (RJ45);One SFP ETH1 interface is multiplexed with the second ETH Console port:1 Micro-USB management port PoE:Support 802.3at/bt Power over Ethernet standard Transmit power:≤27dBm Adjustable power granularity:1dBm Adjustable power range:3dBm~relevant national standards Power consumption:<24W Antenna:Built-in directional antenna Status indicator:1*system light: Blue, normal online: always on, inactive: flashing, abnormal power on the device: off Working temperature:40°C~+70°C Working humidity:0%~100% relative humidity, no condensation Weight:2.20kg Dimension:242*242*74mm	1 ш
9	<b>Видео хурлын камер</b>	TV-620XM Video signal system: 1080P60, 1080P59.94, 1080P50, 1080I60, 1080I59.94, 1080I50, 1080P30, 1080P29.97, 1080P25, 720P60, 720P59.94, 720P50 Sensor type: 1/2.8 inches, CMOS, effective pixels: 2.07 million, progressive Scanning method: Progressive scanning Lens: 20x, f4.42mm~88.5mm, F1.8~F2.8 [35mm equivalent focal length: 34mm-674mm] Digital zoom: 16x Minimum illumination: 0.5Lux @ (F1.8, AGC ON) Electronic shutter: 1/30s~1/10000s White balance: Auto, manual, one-touch, specified color temperature, indoor, outdoor Digital noise reduction: 2D, 3D digital noise reduction BLC:Support SNR: ≥55dB Horizontal field of view: 60.7°~3.36° Vertical field of view: 34.1°~1.89° Horizontal rotation range: ±170° Vertical rotation range: -30°~+90° Horizontal rotation speed: 1.7°~100°/s Vertical rotation speed: 1.7°~69.9°/s Horizontal and vertical flipping: Support Image freeze: Support Presets quantity: 255 Presets accuracy: 0.1° Audio parameters	2 ш

	<p>Digital audio pickup: Built-in dual microphone array, 100Hz to 16KHz frequency response</p> <p>Analog audio input: Support 3.5mm Line-In</p> <p>Digital audio output: Support HDMI, USB, LAN and other audio output</p> <p>Analog audio output: Support 3.5mm Line-Out</p> <p>USB parameters</p> <p>Color space/Compression: YUY2/MJPEG/H.264</p> <p>Video format: Support various video formats with different frame rates and resolutions, up to 1080P60 YUY2 output</p> <p>USB video communication protocol UVC 1.1 or UVC1.5 USB audio 32K sampling rate, support UAC2.0</p> <p>UVC PTZ control, support IPC features (IP Camera)</p> <p>Video coding standard: H.264/H.265</p> <p>Video stream: First code stream, Second code stream</p> <p>First stream resolution: 1920x1080, 1280x720, 1024x576, 960x540, 640x480, 640x360</p> <p>Second stream resolution: 1280x720, 1024x576, 720x576, 720x480, 720x408, 640x360, 480x270, 320x240, 320x180</p> <p>Video bit rate: 32Kbps~102400Kbps</p> <p>Bit rate control: Variable bit rate, fixed bit rate</p> <p>Frame rate: 1fps~60fps</p> <p>Audio compression standard: AAC</p> <p>Audio bit rate: 96Kbps, 128Kbps, 256Kbps</p> <p>Network protocol: NDI   HB, NDI   HX, TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, Multicast, SRT, etc.</p> <p>Input and output interface 5 USB interface, 1 USB 3.0: Type A socket</p> <p>HD output: 1CH, HDMI: Version 1.31CH, 3G-SDI: BNC type, 800mVp-p, 75Ω, in line with SMPTE 424M standard</p> <p>Network interface: 1CH, RJ45: 10M/100M/1000M adaptive Ethernet port, support PoE</p> <p>Audio interface: 1CH, Line In, 3.5mm audio jack; 1CH, Line Out, 3.5mm audio jack</p> <p>Communication interface: 1CH, RS232 In: 8-pin mini DIN, maximum distance: 30 meters, VISCA/Pelco-D/Pelco-P protocol</p> <p>1CH, RS232 Out: 8-pin small DIN, maximum distance: 30 meters, for VISCA protocol networking</p> <p>1CH, RS485: 2-pin Phoenix port, maximum distance: 1200 meters, VISCA/Pelco-D/Pelco-P protocol</p> <p>Power interface: JEITA type (DC IN 12V)</p> <p>Input voltage: DC 12V, PoE (802.3af)</p> <p>Input current: 1000mA</p> <p>Working temperature: 0°C~40°C</p> <p>Storage temperature: -40°C~60°C</p> <p>Power consumption: 12W</p> <p>Dimension (L×W×H): 146×169×168mm</p> <p>Net weight: About 1.5kg</p> <p>MTBF: 30000H</p>	
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10	<b>Камер удирдлага</b>	<p>TV-620K</p> <ol style="list-style-type: none"> <li>1. Can control the camera (or pan/tilt) rotation, zoom, aperture, focus and other camera parameter settings.</li> <li>2. Support PELCO-D, PELCO-P, VISCA control protocols.</li> <li>3. With LCD display, support Chinese and English menus, with key sound prompts. The three-dimensional joystick is used to control the speed of the camera, and the hand feel is flexible. The unique control code learning function allows you to modify the control code instructions by yourself.</li> <li>4. Communication baud rate: 2400, 4800, 9600, 19200bps. RS485.RS422.RS232 multiple interface control signals are used, and 255 cameras can be connected. The longest communication distance: 1200M (0.5MM twisted pair).</li> <li>5. Display: LCD blue screen liquid crystal display, button: computer keyboard button design.</li> </ol> <p>Display: 12864 LCD display</p> <p>Control lever: 3D control lever, automatic return to zero</p> <p>Button: Normally open contact type</p> <p>Temperature:-7°C ~ 49°C</p> <p>Humidity: 10%~90%</p> <p>Dimension:340×180×50mm (L×W×H)</p>	1 ш
11	<b>Подיום</b>	<p>Resolution rate: 3840*2160(UHD), Screen type: capacitive, Touch specification: 20-point touch, Panel tilt degree: 20°, CPU composition: A76*4+A55*4, CPU cores number: eight cores, GPU operating frequency: 2.4GHz+1.8GHz,</p> <p>RAM &amp; Storage : 8GB+64GB, Bluetooth: support,Wifi: support</p>	1 ш

12	<b>Удирдлагын төхөөрөмж</b>	<p>Overall:Dimenions (mm): 278.5(L) x 50(W) x 231(H)  Front :Indicators: Network Status Indicator *1  Power Status Indicator *1  Back: LAN: 10M / 100M self-adaptive LAN ports *2  PC Connection:HDMI In * 2 : 4K@60Hz, Support HDCP 2.2 and HDCP 1.x, USB Host * 2: Type B 2.0  Display Connection: HDMI-Out * 2: 4K@60Hz, Support HDCP 2.2 and HDCP 1.x USB Devices Connection: USB-Device * 4: Type A 2.0  Audio:Audio-In * 1: 3.5mm Audio-Out * 1: 3.5mm  Control Ports: IR ports, Relay port * 1: Wago connector with 3 pole  RS232 *2 COM port * 1 Power: 12V DC, 5.0A, 60W Power Switch *1 Touch panel features Device Control RS232 Control for devices like PTZ cameras, interactive flat panels, etc. Q-NEX NPS100 supports PTZ camera preview and preset.  IR control for devices like air-conditioners, TV, etc. Supporting tempetature/mode/fan speed control for air-conditioners.  Relay control for devices like lights, e-curtains.  Presentation Switch  2x2 HDMI Presentation switching.  Duplicate mode.  Volume Adjustment  For connected external audio devices like active speaker.</p>	1 ш
13	<b>Удирдлагын компьютер</b>	<p>Dell Optiplex Tower Plus 7010-тэй дүйцэхүйц  i7-13700, 16GB (2X8GB) DDR5 Non-ECC, M.2 512GB PCIe NVMe Class 35 SSD, NVIDIA GeForce RTX 3050 8GB GDDR6, No ODD, Keyboard, Mouse,</p>	1 ш
14	<b>Компьютерын дэлгэц</b>	<p>24 inch, WUXGA 1920 x 1200 at 60Hz, HDMI, DisplayPort, Black</p>	2 ш
15	<b>Холболт суурилуулалт</b>	<p>Кабель, холболт, суурилуулалт, сургалт, нийлүүлэлтийн дараах үйлчилгээтэй байна.</p>	1 ш