FIRM ALPHA CO., LTD

INSTALLATIONS EXAMPLES

2007 – 2022
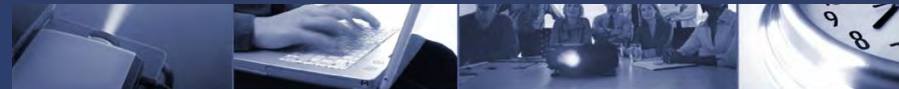
FIRM ALPHA®

- **2** x Digital Installation Projectors
 Mitsubishi XL-5980U
(5,500 ANSI Lumens, motorized Focus/Zoom lens);

- Video Conference System
Polycom VSX-7400e Presenter
with integrated *IP-content transmission and **2** cameras*

- **2** x Digital Installation Projectors **Mitsubishi XL-5980U** *(5,500 ANSI Lumens, motorized Focus/Zoom lens);*

- Video Conference System **Polycom VSX-7400e Presenter** with integrated *IP-content transmission and* **2** *cameras*

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Digital Projector
Optoma EP-780
(4,000 ANSI lumens, Contrast ratio: 3,000:1);

 - Video Conference System
Polycom VSX-7400s Presenter with integrated ***IP-content*** *transmission*

- Interactive White Board
SMART Board 680
(Active Screen Area – 156.5 cm × 117.2 cm; Diagonal - 77" (195.6 cm); Touch resolution - 4000 × 4000);

- **Samsung 56"** TV set

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-Digital Installation Projector
Mitsubishi WD-2000U
(3,500 ANSI Lumens, motorized Focus/Zoom lens);

-*Interactive White Board*
SMART Board 690
(Active Screen Area - 208.6 cm × 117.2 Diagonal - 94" (238.8 cm); Touch resolution - 4000 × 4000);

-*Document Camera*
AVerVision 300AF *(3.2 Mpix.; XGA res-n; Auto Focus 16-x Zoom)*

- Signal Processing Equipment -
Extron:
- MEDIALINK™ SWITCHER MLS406SA ;
- Distribution Amplifier IN3252HR *(1x2 RGBHV)*

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-Digital Installation Projector
 Mitsubishi WD-2000U
(3,500 ANSI Lumens, motorized Focus/Zoom lens);
-Interactive White Board
SMART Board 690
(Active Screen Area - 208.6 cm × 117.2 Diagonal - 94" (238.8 cm); Touch resolution - 4000 × 4000);
-Document Camera
AVerVision 300AF (*3.2 Mpix.; XGA res-n; Auto Focus 16-x Zoom* **)**
- Signal processing equipment -
Extron:
- MEDIALINK™ SWITCHER MLS406SA *;*
*- **Distribution Amplifier IN3252HR** (1x2 RGBHV)*

- Digital Installation Projector **Mitsubishi XD-2000U** *(3,500 ANSI lumens, optional **Long Throw** motorized Focus/Zoom lens);*

- Video Conference System **Polycom VSX-7400e Presenter** with integrated IP-content transmission

- Professional *Full HD* *(1,920x1,080 pixels) monitor* **Mitsubishi LDT461V** *(46" /117 cm diag.)*

- Motorized Screen **Medium MovieSMART Roll Screen Electric** *240 x 240 cm*

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- Digital Installation Projector **Mitsubishi XD-2000U** *(3,500 ANSI lumens, optional **Long Throw** motorized Focus/Zoom lens);*

Video Conference System **Polycom VSX-7400e Presenter** with integrated IP-content transmission

Professional ***Full HD*** *(1,920x1,080 pixels) monitor* **Mitsubishi LDT461V** *(46" /117 cm diag.)*

Motorized Screen **Medium MovieSMART Roll Screen Electric** *240 x 240 cm*

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-**HD** Video Conference System **Polycom HDX 8002 XL** with integrated *IP-content transmission and multipoint conference possibility*

-Professional *Full HD (1,920x1,080 pixels)* monitor **Mitsubishi LDT461V** (*46" /117 cm diag.*)

- Digital projector **Panasonic LB-80NTE** (**Wireless LAN**, native XGA, *3,000* ANSI lumens);

- **Medium Wall Screen Universal 244 x 244 cm**

Audio Conference system **SING SC- 600**

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- **HD** Video Conference System **TANDBERG Edge 95 MXP** *with integrated **IP-content** transmission;*

-Professional *HD* Ready (*1,366x768 pixels*) monitor **Mitsubishi LDT421V** (*42" /107 cm diag.*)

-Interactive Pen Display **SMART** *Sympodium ID370 Interactive Pen Display* (*17"*)

-*Interactive White Board **SMART Board 680** (Active Screen Area –156.5 cm × 117.2 cm);*

- Digital Projector **Mitsubishi XD-510U** (*2,600 ANSI lumens*);

-*Document Camera **AVerVision 300AF** (3.2 Mpix.; XGA res-n; Auto Focus, 16-x Zoom)*

-*Audio System **SOUNDKING FP208-1A***

-Digital Projector
Mitsubishi XD-520U
(native XGA; 3,000 ANSI Lumens);

-Motorized Wall Screen
Medium Rollfix Electric Premium 240 x 180 см

-Audio Conference System
RESTMOMENT RX-250

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-Digital Projector
Mitsubishi XD-510U
(native XGA resolution, 2,600 ANSI Lumens, Brilliant Color Technology);

-Interactive White Board
SMART Board 680
(Active Screen Area – 156.5 cm × 117.2 cm; Diagonal - 77" (195.6 cm); Touch resolution - 4000 × 4000);

-Document Camera
AVerVision 300AF (*3.2 Mpix.; XGA res-n; Auto Focus 16-x Zoom* **)**

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-Short Throw Digital Projector **Mitsubishi XD500U-ST** *(native XGA (1,024 x 768)/ compr. SXGA (1,280x1,024) ; Brightness –2,000 ANSI Lumens; Contrast – 2,500:1;*

-Interactive White Board **SMART Board 680** *(Active Screen Area – 156.5 cm × 117.2 cm; Diagonal - 77" (195.6 cm); Touch resolution - 4000 × 4000);*

-*Document Camera* **AVerVision SPC300** *(3.2 Mpix; XGA res-n; 48-x Zoom)*

-Interactive Pen Display **Sympodium ID370 Interactive Pen Display** *- 17"(SXGA res-n;)*

-Audio Conference system **SING SC 600**

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-Digital Installation Projector
 Mitsubishi XD-1000U *(3,000 ANSI Lumens, motorized Focus/Zoom lens);*

-Rear Projection Screen ***MEDIUM Fold Exclusive Rear*** *Projection Screen 264 x 203 cm*

-Document Camera ***AVerVision 300AF (****3.2 Mpix.; XGA res-n; Auto Focus 16-x Zoom)*

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-Digital Projector **Mitsubishi WD-3300U** *(native WXGA (1280x800), 4,000 ANSI Lumens; Contrast – 2,300:1; Motorized Lens)*;

Medium Rollfix Electric Premium Wall Screen 300 x 225 cm;

-Built-in in lectern Interactive Pen Display Sympodium DT770 (17", native *SXGA res-n)*;

-*Document Camera* AVerVision SPC300 *(3.2 Mpix; XGA res-n; 48-x Zoom)*;

-Audio Conference System **Sing SC600**

-**TLS** signal processing equipment

- Interactive White Board **SMART Board 680** *(Active Screen Area – 156.5 cm × 117.2 cm; Diagonal - 77" (195.6 cm); Touch resolution - 4000 × 4000);*

-Short throw Digital Projector **Mitsubishi XD-500U-ST** (native **XGA** res-n, *2,000 ANSI Lumens, Contrast: 2,500:1, Brilliant Color Technology);*

- *Special Wall Mount for short throw projectors* SMS Short Throw WLV+.

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-Digital Installation Projector
 Mitsubishi WD-3300U
(native WXGA (1280x800), 4,000 ANSI Lumens; Contrast – 2,300:1; Motorized Lens);

- Projection Screen
Medium Frame Professional *400x250 cm*

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- *Specially designed for education* **budget** video conference system **Polycom QDX 6000** with integrated IP content transmission*;*

-Professional *HD* (*1,366 x 768 pixels) public monitor* **Mitsubishi LDT421V** *(42"/107 cm diag.);*

- **Polycom PVX v8.02** PC Conferencing Application for a single user *(15 sets)*

Conference Hall of Ameriabank CJSC - 2009

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HD Video Conference System **Polycom HDX 8002 XL** *(4 Mbps Line Rate HD videocodec with 720p resolution and integrated transmission of IP-content (People+Content™ and People on Content)   as well as MPPlus Multipoint option (setting up a 4-way video conference without videoconferencing server) , 12-x PTZ EagleEye camera, microphone)*

-HD voice Conference Phone **Polycom SoundStation IP 7000.**

-Interactive White Board **SMART Board 680i3**
-*Board*: Active Screen Area 156.5 cm ✕ 117.2 cm; Diagonal - 77" (195.6 cm); Touch resolution - 4000 ✕ 4000; Extended Control panel.
-*UF 55U Short-throw projector* : native XGA/compr. UXGA res-n; 2,000 ANSI Lumens; Contrast - 2,000:1.

-Audio Conference Systema **Sing SC-600**

– **Dual Touch** Interactive White Board **SMART Board SBD-680** (*Enables two users to work simultaneously, Active Screen Area W ×H (156.5 cm × 117.2 cm); Diagonal - 77" (195.6 cm)*)

- **Short -Throw** multimedia (digital) projector **Mitsubishi XD221-ST** (*152-cm diagonal image from distance of just 83 cm from the screen, native XGA (1,024 x 768) resolution, Brightness – 2,000 ANSI ; Contrast ratio – 2,500:1*)
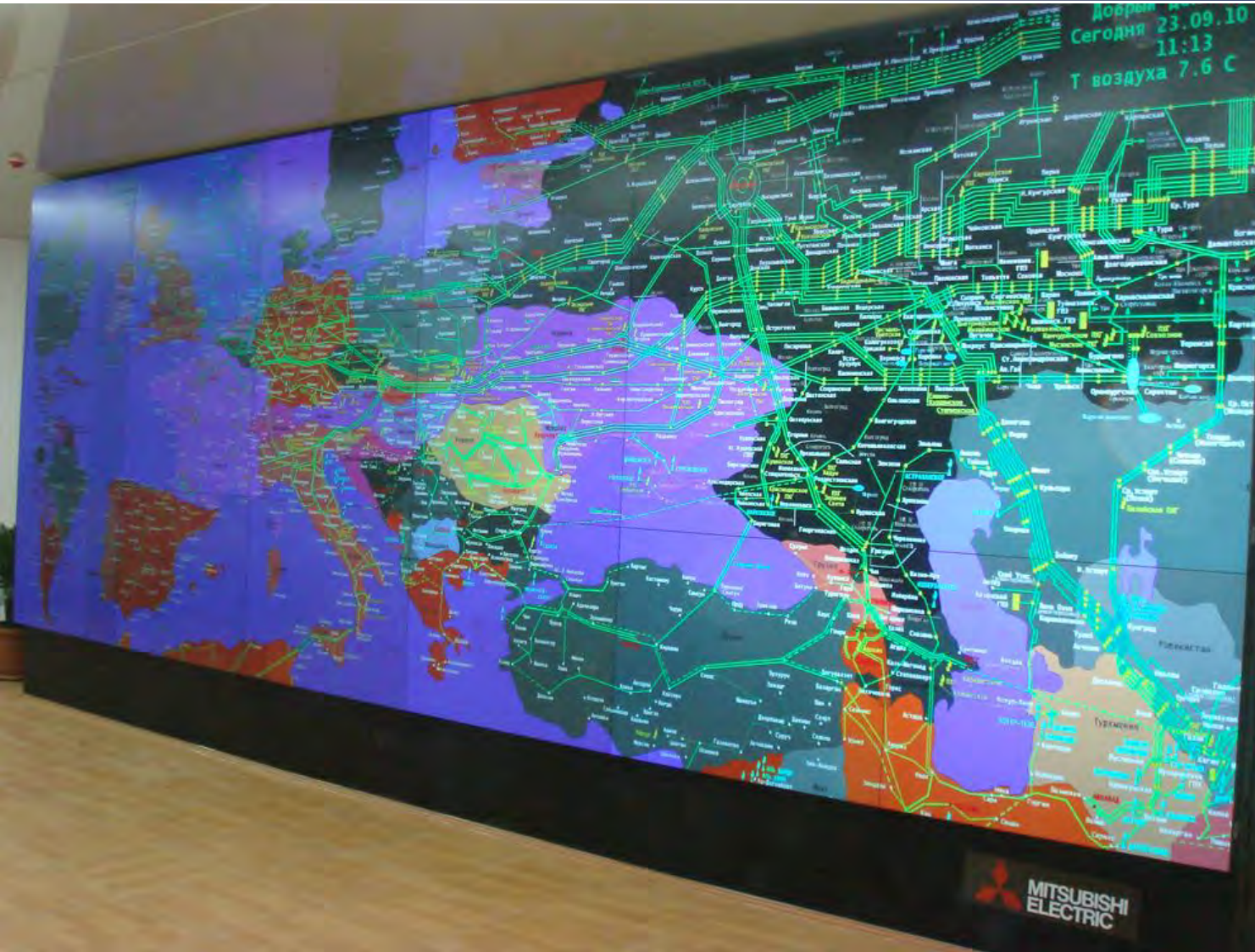
Display Wall System by **Mitsubishi Electric** - **18** cubes of the newest **70 Series** - the leading product of **Mitsubishi's 7th-generation solution**.

Each *Front Access* **XGA** resolution cube has **67"** diagonal, **640** cd/m2 Brightness and **2,200:1** Contrast Ratio.

Display Wall (format 6 x 3) has total **6,144 x 2,304** pixels resolution and **8,15 x 3,0** m image dimensions.

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Three *Display Walls* - each consists of **4 Professional Full HD 52" Mitsubishi MDT-521S** slim bezel (19.5mm) LCD Public Monitors.

Each **Display Wall** has **264** cm diagonal and **3,840 x 2,160** pixels resolution.

All Mitsubishi Professional monitors are *specially designed* for **24/7 operation** and **multi-screen display operation** up to **25** monitors (5 x 5 monitors) with **Frame Compensation**.

- Digital Projector **Mitsubishi XD-221U** *(native XGA (1280x800), 4,000 ANSI Lumens; Contrast – 2,300:1; Motorized Lens*) – 3 units;
- **Medium Wall Screen** 203x203cm – 3 units;
- **Built-in** *in the lectern* Interactive Pen Display**; Sympodium ID370 Interactive Pen Display** (17", native *SXGA res-n*);
-Document Camera **AVerVision 355AF**- *1/2,5" Progress Scan CMOS; Full HD (1,920x1,080) res-n; 5 Mpix.;*
-Signal processing – **Extron** Splitters and Amplifiers

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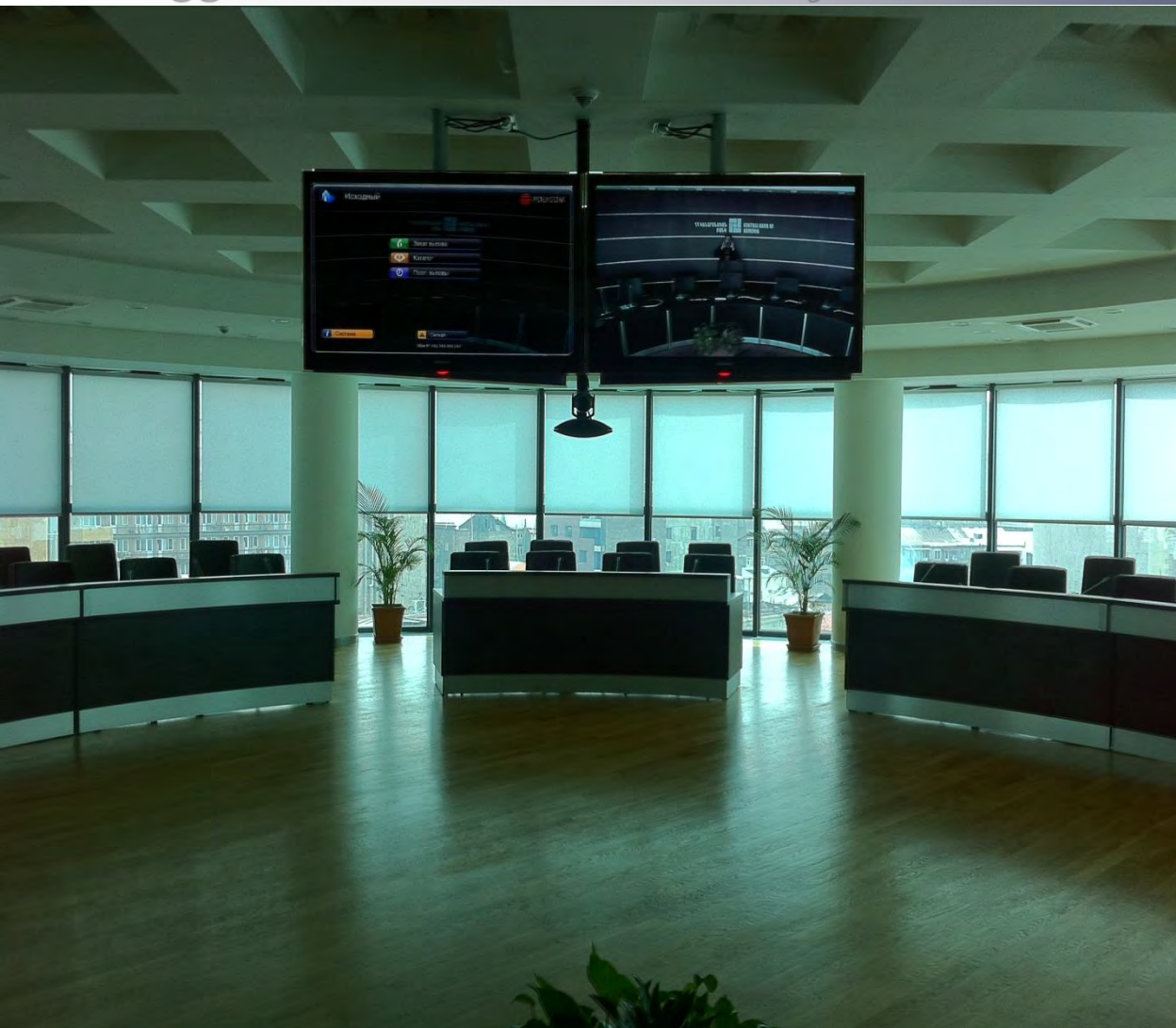
- **HD** Video Conference System **Polycom HDX 9004** (*720p resolution, integrated transmission of IP-content and MPPlus Multipoint option (setting up multipoint video conference without videoconferencing server))*.

For the first time in Armenia in CBA was realized simultaneous video connection between **8** parties *(MPPlus Multipoint option of Polycom HDX 9004 codec)*

- **2** sets of **HD** Video Conference System Polycom **HDX 8000-720** (*720p resolution, integrated transmission of IP-content*). For personal videoconferencing CBA also acquired **7** Polycom **PVX v8.0.2** PC Conferencing Applications

- **Full HD** Video Conference System TANDBERG (*now Cisco*) **C40** with Multisite option (*setting up a 4-way video conference without a videoconferencing server*), Content transmission, **12**-x PTZ **PrecisionHD** 1080p camera, microphone.
- **52"** Professional **Full HD** Public Display **Mitsubishi MDT-521S** (Slim Bezel (22 mm); ***Built-in CAT5 Transmitter & Receiver*** - for signals transmission up to 150 m, ***24/7/365*** operation) with optional detachable speakers.
- **22" Full HD Interactive Pen** Display **SMART Podium ID422W**
- Audio Conference System **Sing SC- 600**
- Cisco IP Conference Station 7937 (**OEM - Polycom SoundStation IP 7000**)

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Professional Full HD LCD Slim Bezel *(19.5 mm)*
Public Display **Mitsubishi MDT-421S -** *specially designed for 24/7/365 operation:*
- **42" (107 cm) diag.,**
- **Brightness -** 700 cd/m2;
- **Contrast -**1,100:1;
- **PiP/POP** functions;
- **Auto Brightness Control;**
- **Display Port** terminal

FIRM **ALPHA**®
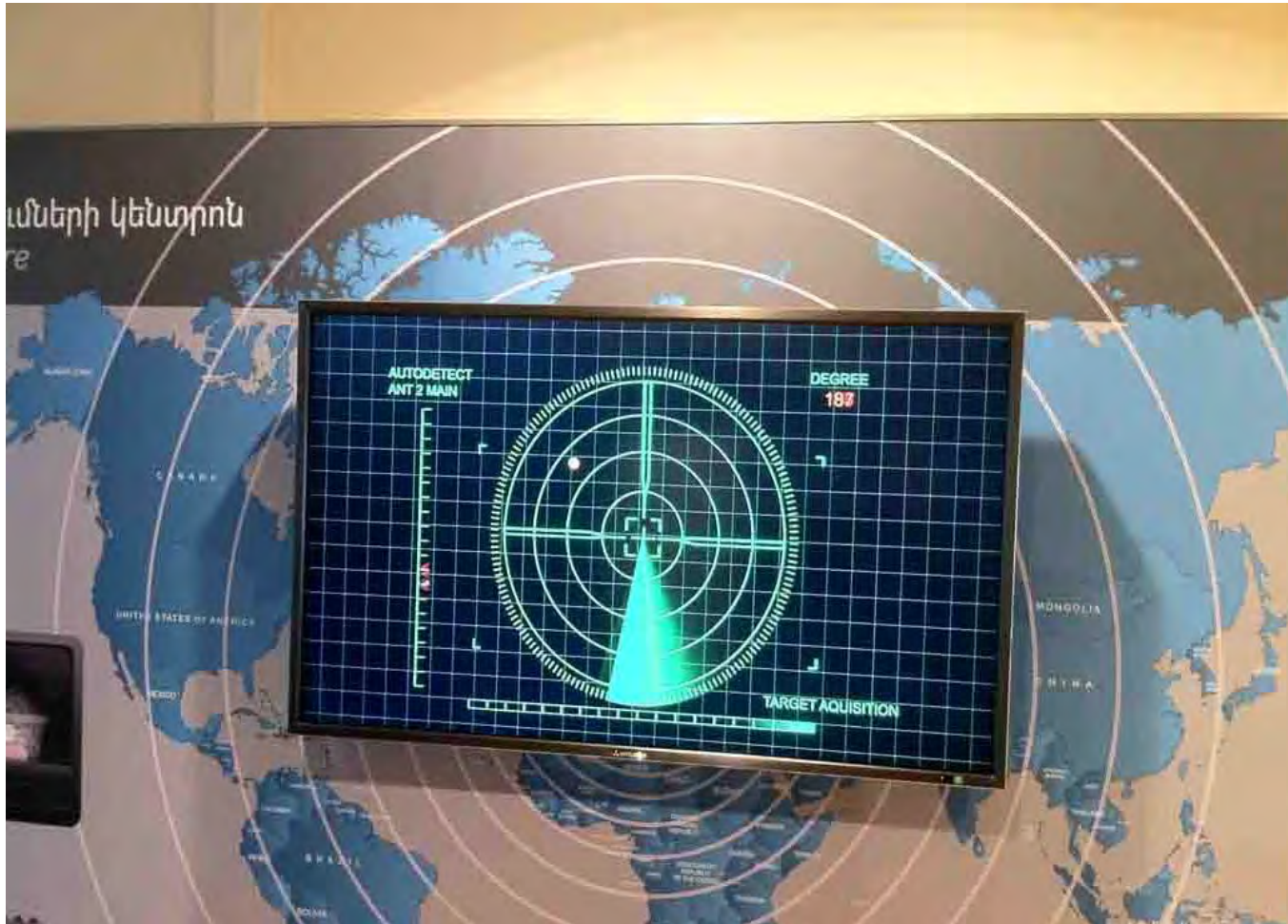
-**Four Interactive tables (Professional Full HD LCD Public Display Mitsubishi MDT-421S (***42" (107 cm) diag*.) in **Face-up 'in-floor'** Viewing mode combined with **U-Touch 42" OPTICAL TOUCH SCREEN** - specially designed for **24/7/365** operation**;**

- Two units of **Professional Installation** Digital Projector **Mitsubishi XD-3500U (5,000** ANSI Lumens Brightness**,** native **XGA** resolution**, Motorized** Lens/Zoom**)** - specially designed for **24/7** operation).

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-**Full HD** Video Conference System **Polycom - 1080p** with integrated *IP-content* transmission

-**2** units of Professional *Full HD* (*1,920x1,080 pixels*) monitor **Mitsubishi LDT461V2** (*46" /117 cm diag.*)

-Audio Conference system **SING SC- 600**

LCD Display Wall

- **Super narrow   5.7mm mullion** (*total gap between the monitors*);
- **278** cm diagonal;
- **3,840 x 2,160** pixels *total resolution.*

- **4 x Mitsubishi** *70 Series* Professional LCD Public Display **VS-L55HM70U**:
- Diagonal: **55"** (139 cm);
- Image Size: **1,210 x 680** mm;
- **Full HD** (1,920 x 1,080) native resolution
- Brightness:**700** cd/m2;
- Contrast: **3,500:1;**
- **LED** BackLight.

- **Professional Installation** Projector **Mitsubishi UD-8850U** (*native* **WUXGA** *(1,920 x 1,200) resolution,* **7,500** *ANSI Lumens Brightness*) with **Mitsubishi Tele Zoom Lens;**
- Projection Screen **MW Frame Professional** 400 x 225 cm;
- **Professional AV Capture Device** by **Datapath**;
- **SMART Podium 524** Interactive Pen Display (*24" diagonal;* **54.1 × 30.9 cm** *display area; native* **Full HD** *(1,920 x 1,080) resolution)*
- **Full HD** Document Camera **AVer F55**;
- **Signal Processing** and **Scaling** equipment by **Kramer;**
- **Audio Conference**, **Simultaneous Translation** and **Audio** (*amplifiers, mixers, speakers, etc.*) equipment.

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- **3D Ready** projector   Mitsubishi UD-740U (*native WUXGA (1,920 x 1,200) 4,100 Lumens Brightness*);
- **Medium Design-Roll Electric IR** Screen 240 x 182 cm;
- **Full HD** VCS **Polycom HDX 8000-1080p** with **multipoint option**;
- 2 x **46"** Full HD Professional Monitor **Mitsubishi LDT462V**;
- 2 x **55"** Full HD Professional Monitor **Mitsubishi MDT -551V** mounted on **Chief FUSION™** Flat Panel **Ceiling** Mounts with *tilt* and *swivel*;
- 2 x **77"** IWB **SMART Board SB-480** with **Mitsubishi EX-320-ST** *Short-Throw* Projectors. Mounted on **Dimasa** Universal **Motorized Height** adjustable trolleys;
- **AVer F55 Full HD** Document Camera;
- Signal Processing equipment and cabling by **Extron** and **Equip**;
- **SING SC-600** *Audio Conference* and **SING STC-641 4 Channel IR** *Simultaneous translation* equipment;
- **Audio** equipment (amplifiers, mixers, speakers, etc.)

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-**Polycom** RealPresence **Group 500-720p** Video Conference System with Polycom EagleEye **Digital Extender**;

-Professional LCD Public Display **NEC MultiSync V552** -2 pcs;

-3D Digital Projector **NEC M402H** (native Full HD resolution, 4,000 *ANSI Lumens*);

-**Kramer** signal management and processing equipment;

Polycom CX600 IP Phone for Microsoft Lync -30 pcs;

-Polycom **CX3000** IP Conference Phone for Microsoft Lync;

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-**AVer** VC equipment **(AVer EVC300 multipoint Full HD** codec in Yerevan **and 3 x AVer EVC130p point-to-point Full HD** codec in regions)**;**

-**NEC** visualization equipment **(professional installation** projector **PA572W** capable to display **4K (!)** signal with optional **Tele Zoom** lens in Yerevan and **3 x 55" professional Full HD V552** displays on special **motorized height adjustable** trolleys) and **Medium** motorized front projection screen (Germany);

-**SMART Technologies** (Canada) interactive as well as **Kramer** (Israel) and **Gefen (USA)** signal processing equipment, etc.

For the pilot project the customer chose **Philips 271P4QPJKEB** 27" **Full HD** monitors capable to work in both "landscape" and "portrait" modes.

SEADA *Video Wall Controllers* were used for image processing

To enable **creative video walls** with both landscape and portrait displays, **SEADA** *Video Wall Controllers* supports:
- The whole video image **across multiple different by image sizes** and **types displays**;
- **90**, **180** and **270** degree image **rotation on each individual output**;
- **Bezel Compensation** to provide accurate display of the image, etc.

The brightest *in Armenian education* **projection system** (*as of May 2016*) – with total **12,400** ANSI lumens light output.

•**Double Stacked** *Installation* projectors with *special Tele Zoom Lenses* - **NEC PA622U** (each – **6,200** ANSI Lumens, native **WUXGA** (1,920 x 1,200 pixels) resolution);

• **AVStumpfl Decoframe** Front Projection Screen **500** x **313** cm

Conference Hall of ACBA-Credit Agricole Bank CJSC – 2016

- **2** x **FocusTouch 82"P10** *Interactive* Displays (**82"** diagonal, Active Area - **1,806** x **1,016** cm, **Professional** PID panel with **LED** Backlight, **Full HD** resolution, **10 simultaneous touches** (*finger, gloved hand or any other pointer*), Integrated **Camera** & **Microphone**, Built-in **2 x 30W** Speakers)

- **2** x Mobile Floor Stand **Focus P10Lift** (Single column, **Motorized** Height Adjustment, Weight capacity - up to 150 kg);

- **Beterva BE-1000** Wired Audio Conference System;

- **2** x **Solstice Wireless Presentations** Software (unlimited number of users)

Interactive Multi Touch Projector **NEC UM301Wi (255 simultaneous touches** *by finger or gloved hand,* **2 electronics pens, 3,000** ANSI Lumens brightness, native **WXGA** (1,280 x 800 pixels)/ compressed **WUXGA** (1,900 x 1,200) resolution, up to **8,000** hours lamp life)

- Professional Installation Laser Projector **Panasonic PT-RZ970LBE** (native **WUXGA**, **9,400** ANSI Lumens) with Tele Zoom Lens **Panasonic ET-DLE250;**

- Frame projection screen **AV Stumpfl Decoframe BDS-AW500** (Image Area - **500** x **313** см);

- **Kramer** signal processing & distribution equipment;

- 21,5" **Full HD** LCD monitor **Philips 227E6EDSD/00 -** 5 pcs

- **LCD Video Wall** (**110"** diagonal; Total Image Area - **242** x **136** (cm), Total Resolution - **4K/UHD** (3,840 x 2,160 pixels), Bezel Width – **3.5 mm**) - **4 x NEC MultiSync X555UNV** UNB display (**55"** diagonal, **Full HD** (1,920 x 1,080 pixels) resolution, Brightness - **500 cd/m²**)

- **NEC PD02VW MFS 46 55 L** universal video wall mount

- **NEC KT-55UN-OF4** Decorative overframe kit for MultiSync displays

Conference Hall in the new building of VTB- Bank (Armenia)

- **SPNL-6275 SMART Board 6075** interactive display with **iQ** (**75"** (190,5 cm) diagonal; Active area - **165,2 × 93 c**m (W × H); **4K/Ultra HD** (3,840 × 2,160 pixels at 60 Hz) resolution; **8 simultaneous touches, simultaneous pen** & **finger touch** interaction**, Pen tray** with **2 pens; 2 x 10 W** speakers, **Presence detection** sensor)
- **Focus P10 LIFT Mobile trolley** with **Motorized Height** Adjustment for **55" – 82"** displays.
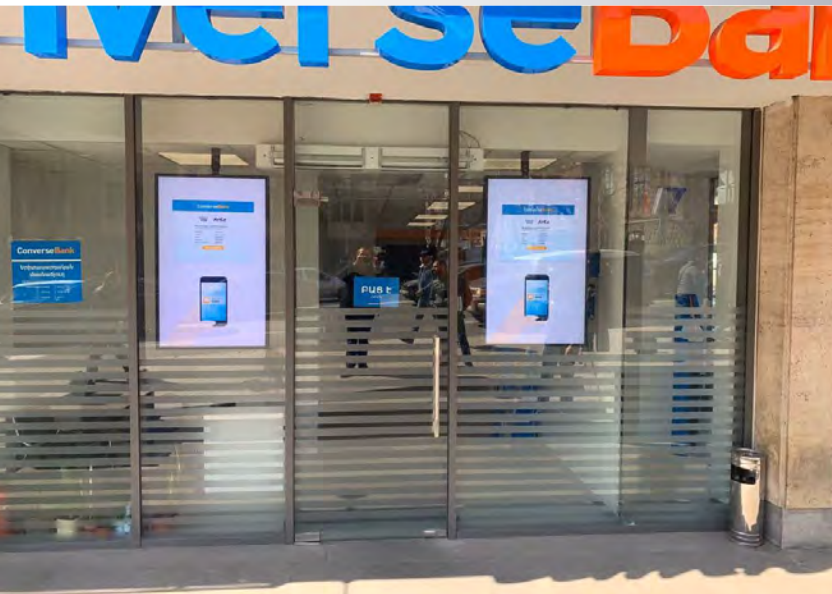
- Professional Installation **Laser** Projector **Panasonic PT-RZ970LBE** (native **WUXGA**, **9,400** ANSI Lumens) with Tele Zoom Lens **Panasonic ET-DLE250**;

- *High Resolution* Motorized Front Projection Screen **Projecta Tensioned Descender** with the tensioning cable system preventing warping and total **Black Drop**:135 cm, overall size: 400 x 254 cm, image size: 390 x 244 cm

- *The first in Armenia* (year 2018) **High Brightness** Professional LCD Public displays - 2 x *stand alone* **NEC MultiSync X554HB** (*2,700* cd/m² brightness (1/4 lambda filter; DLED backlight S-PVA Panel), *55"* (*140 cm*) diagonal, native *Full HD* (1,920 x 1,080 pixels) / supported *4K/UHD* (4,096 x 2,160 pixels) resolution, programmable *Ambient Light Sensor*);

- 2 x *paired* Professional LCD Public Display **NEC MultiSync P703** (*70"* (*178 cm*) diagonal, native *Full HD* (1,920 x 1,080 pixels) / supported *4K/UHD* (4,096 x 2,160 pixels) resolution; *700* cd/m² brightness; programmable *Ambient Light Sensor*);

- **Digital Signage** system (year 2019) - 2 x **SpinetiX HMP350** Professional Media Player (*Full HD resolution, the built-in web-based content creation and scheduling tools*) and **SpinetiX Elementi M1** professional DS software.

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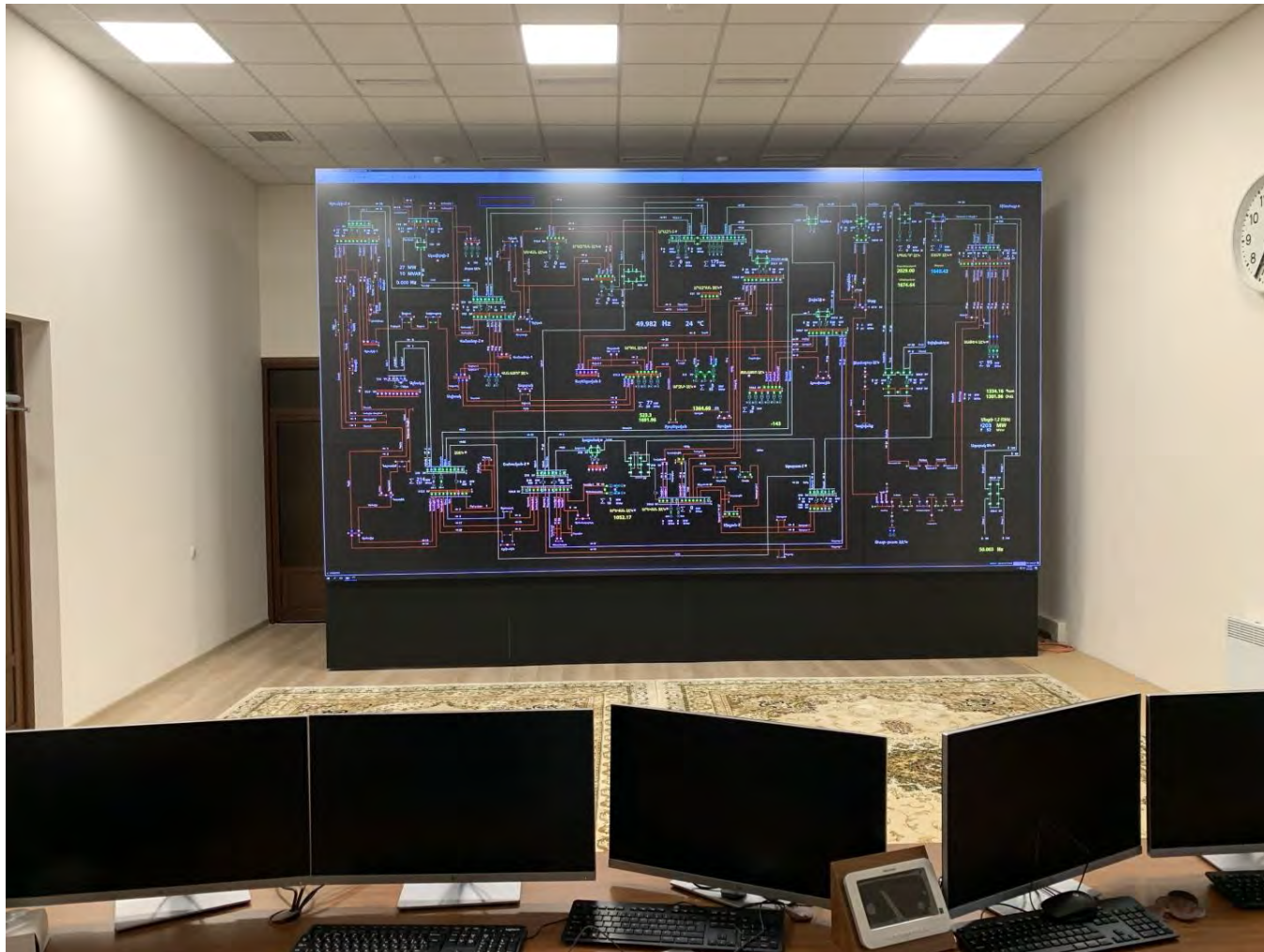
Display Wall System by **Mitsubishi Electric** - **12** x **VS -67PE** cubes with **LED** light source (Screen to screen gap – **0.9 mm**).

Each *Back Access* **SXGA+** resolution cube has **67"** diagonal, **790** cd/m2 Brightness and **1,900:1** Contrast Ratio.

Display Wall (format 4 x 3) has total **5,600 x 3,150** pixels resolution and **5.44 x 3.06** m image dimensions.

French University in Armenia - 2021

SMART Podium 524 Interactive Pen Display – 1 pcs:
(**24"** (61 cm) diagonal, native **Full HD** (1,920 x 1,080)
res-n, Battery-free tethered pen with a comfort grip;
Adjustable stand)

- **Professional** Digital **Laser Projector NEC P605UL** - 2 pcs:
  (**Laser Light** Source (**20K** hours), Brightness – **6,000** Lumens, native **WUXGA**
  (1,920 x 1,200) / compr. **4K/Ultra HD** (3,840 x 2,160) resolution)
- **Motorized** Screen **Projecta Compact Electrol** with **5 cm** Black Borders
  (Viewing Area: **290** cm x **181** cm) - 2 pcs;
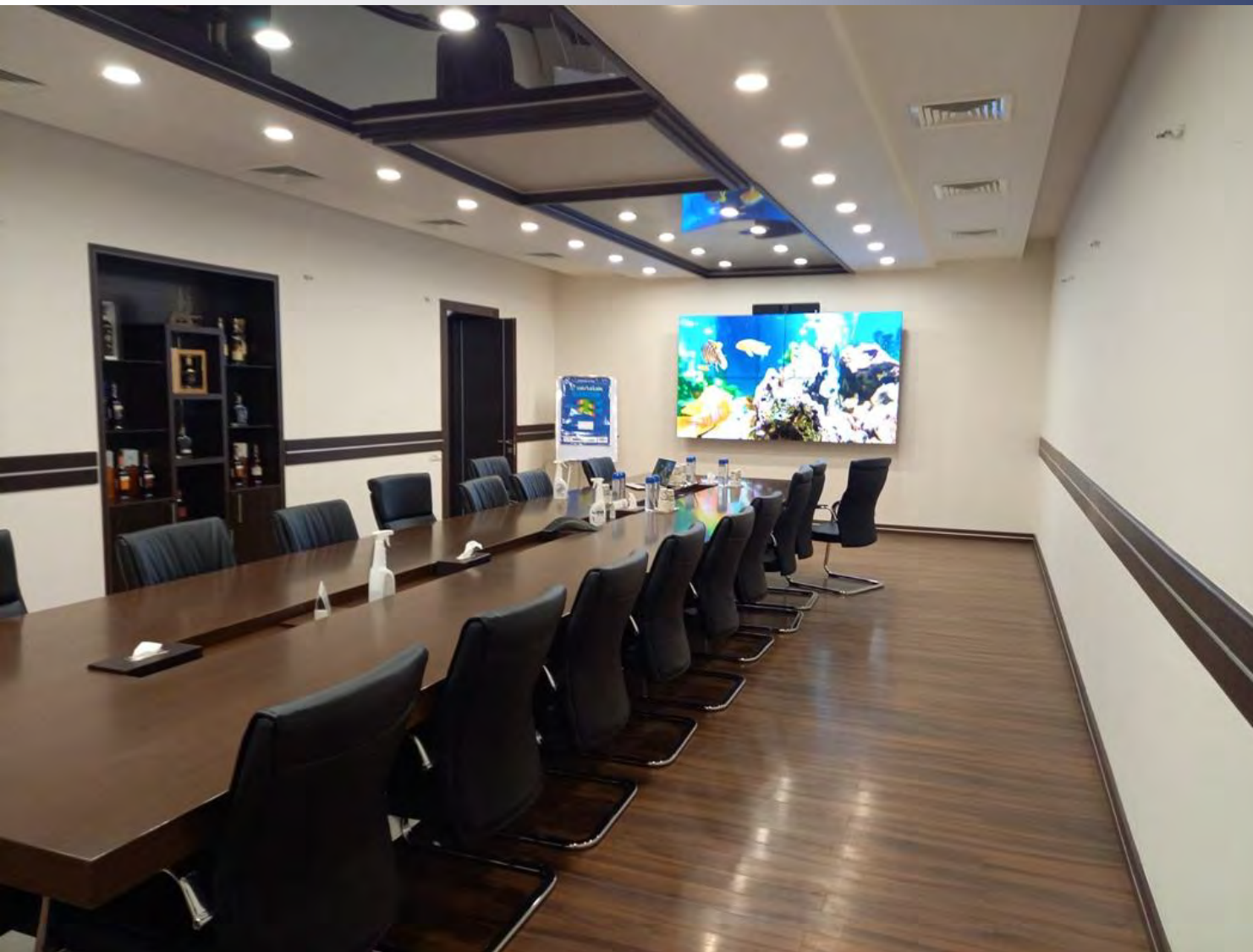
110"Mitsubishi 4K LCD Video Wall (4 x **55"** 4Diamond Grid DG55ENB503 display):
- Total Image Area: **241,8 x 136** cm;
- Total Resolution: **4K/UHD** (3,840 x 2,160 pixels);
- Brightness: **500 cd/m²**;
- Bezel Width (*each display*): **0.9 mm** (**1.8** mm bezel-to-bezel);
- **Operation Mode** (hours per day/ days per week): **24/7**;

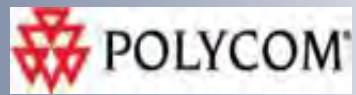**AVer VB342 Pro 4K PTZ Video Sound Bar** for **Unified Communications** (*placed on the top of VW*):

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- The first in Armenia Professional Installation **Laser** Projector with **20K** lumens brightness **NEC PX2201UL** (20,500 lumens brightness, native WUXGA (1,920 x 1,200 pixels) / compressed WQXGA (2,560 x 1,600 pixels) resolution) with 2 optional **Motorized NEC NP48ZL** (Throw Ratio: 2.0 - 4.0 : 1) **Long** Zoom and **NEC NP45ZL** (Throw Ratio: 0.9 - 1.2 : 1) **Ultra Wide** Zoom Lenses.

- AV Stumpfl Frame Front Projection Screen **VarioClip Clamp64 10.2 x 9.2 m** (projected image area - 10 x 6.25 m, Flex White CI premium 8K+ cloth, 10 cm black borders). **10.2 x 9.2** m screen's dimensions were specified by the customer in order to use the screen as a backdrop for the stage.

With Best Wishes!

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