Collaborative Classrooms have proven to be an effective strategy to promote communication among students and between teacher and students. TEKVOX simplifies the equipment required by providing preconfigured 4K huddle stations and a preprogrammed Plug-and-Play solution using the latest 4K technology. The remarkable image quality of 4K displays and the impressive features of the new TEKVOX TEK MV71-4K Multiviewer Presentation switcher allow four students to share their laptop screens on a single monitor without loss of resolution.

The classroom is designed using multiple TEKVOX 4K Huddle Stations (71028) connected together with HDBaseT. An instructor station and a 4K main display can be added as well. Instructor operation of the system is provided using an intuitive iPad.

Each huddle station can be operated independently by students or as one system by the instructor. In Student mode a student can fully operate their own huddle station and collaborate together by selecting the QuadView mode on a touchscreen controller. In Instructor mode the instructor decides what the content is and what is shown at the large screen monitor and huddle station displays.

Students can easily select their video connection on the huddle station using the TekTouchPad located at the rear of the table. Each button on the TekTouchPad is color coded to match a cable located in the tabletop cable box.

For QuadView operation students select a QuadView mode on the TekTouchPad that represents their connected cables. There are five QuadView modes to display four students on the same screen.

For Instructor operation of the collaborative classroom an iPad is used to provide an intuitive user interface. The instructor can select a podium source or a huddle station to display to the main display and to all of the huddle station.

With the cost of 4K monitors getting closer to the cost of 1080P monitors, the TEKVOX 4K QuadView Huddle Stations are very cost competitive.

TEKVOX
INCORPORATED

System Drawings

4K Huddle Sations

TEKVOX
TSC7 78036

TekTable Cubby #1
Front - Left

RED (HDMI 1)
GRN (HDMI 2)
BLU (DP 1)

TEKVOX
TSC7 78036

TekTable Cubby #2
Rear - Right

RED (HDMI 3)
GRN (HDMI 4)
BLU (DP 2)

TEKVOX
TEK MV71-4K (79064)

1 2 3 4 HDMI
HDMI

1 DisplayPort
2

3.5mm Stereo
VGA AUDIO 1/2 3/4 5/6 7/8

1 2 HDMI
3 4 AUDIO

1 DP AUDIO
2

RS-232
IR
LAN

HDMI RS-232 CAT
Student Pod TX

TEKVOX
TPHD-402PR (79040)

Student Pod RX
CAT HDMI RS-232

55" 4K Display
HDMI
RS232

TEKVOX
TekTouchPad (78034)

LONE STAR COLLEGE
Collaborative Work Table

Control Cable Supplied by TEKVOX

TEKVOX
TEK 2 (70001)

TekSecurity
OCC
3 Logic In 4
Logic Out 2 3
RS232
LAN

Campus AV Network

Mount TEK 2 in Eqiupment Rack.

6 BLU TEK 2 +24V
5 YEL GND
2 BLK GND
RED RX
BLK
WHITE TX

TekTouchPad RJ12
MV41 DB9-M 5 2

Instructor's Podium

TEKVOX
TPHD-402PR (79040)
CAT HDMI RS-232
Podium Display

TEKVOX
TPHD-402PR (79040)
CAT HDMI RS-232
Students

Doc. Camera
Campus Network

Instructor PC
USB DP
LAN

iPad Controller

TekController
COM 1
COM 2
LAN IR 1
Blu-ray/ Apple TV

Control Cable Supplied by TEKVOX

TEKVOX
TEK MV71-4K (79064)

Laptop HDMI
Blu-ray
Apple TV

1 2 3 4 HDMI
HDMI

Cubby DP
1 DisplayPort
2

Cubby VGA
Cubby Audio
VGA AUDIO
3.5mm Stereo
1/2 3/4 5/6 7/8

1 2 HDMI
3 4 AUDIO

1 DP AUDIO
2

RS-232
IR
LAN

TEKVOX
TPHD-402PT (79039)
HDMI RS-232 CAT

Speaker Amp
Ceiling Speakers

FSR Ceiling Box

TEK MMX88B
HDBaseT (79041)

79111
1 RS-232 Audio
2 RS-232 Audio
3 RS-232 Audio
4 RS-232 Audio

79121
1 RS-232 Audio
2 RS-232 Audio
3 RS-232 Audio
4 RS-232 Audio

Student Pod 1 TX
Student Pod 2 TX
Student Pod 3 TX
Student Pod 4 TX

Student Pod 1 RX
Student Pod 2 RX
Student Pod 3 RX
Student Pod 4 RX

79111
5
6
7
8

79121
1 RS-232 Audio
2 RS-232 Audio
3 RS-232 Audio
4 RS-232 Audio

CTRL
RS-232
IR
LAN

TEKVOX
TPHD-402PR (79040)
CAT HDMI RS-232

Interactive Display

4K Display
HDMI
RS232

TEKVOX
Occ. Sensor (78002)
Red ——— +24
Blue ——— OCC
Black — GND

Students

TEKVOX
TEK 2 (70001)
TekSecurity
OCC
3 Logic In 4
Logic Out 2 3
RS232
LAN

Campus AV Network

TEKVOX
TekSecurity
(78001 - 78008)

Mount Small Room Occupancy Sensor above or behind instructor pointing towards students.