

# Korg GEC3 and Casio CTK-6000 Keyboard presented by Michael Fein michael@feinmusic.com

## Digital Music at Haverford High School Havertown, PA

- Doubled the size of the music program 384 students elect to take a music tech elective each year at Haverford High. (Total 1200 students in the school)
- No prerequisite; no music experience required; open to all students, all levels, all grades.



## Digital Music at Haverford High School Havertown, PA

- Courses offered at HHS (block scheduling)
  - \* Digital Recording I and 2
  - \* Electronic Piano Lab
  - \* Music Theory I and 2
- Taught by a music specialist with technology experience (TI:ME Certified - www.ti-me.org)



## Digital Music at Haverford High School Havertown, PA

- Taught in a 25 station lab
  - \* Apple iMac Computers
  - \* Peak LE / Audacity
  - \* GarageBand
  - \* Logic Express
  - \* Finale PrintMusic
  - \* Practica Musica
  - \* Band-in-a-Box
  - \* Korg X5 Keyboards
  - \* Korg GEC3



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## **Group Education Controller GEC3**

- CLASSROOM MANAGEMENT
- Touch screen interface
- 16-32 keyboards
  - ☐ In split mode, 2 students per keyboard



#### **GEC3 - Student Interface**

- CALL: Students press this when they need teacher assistance
- SPLIT: 2 students per keyboard, student A uses the left half of the keyboard and student B uses the right half





Student Interface Unit - SI (front view)

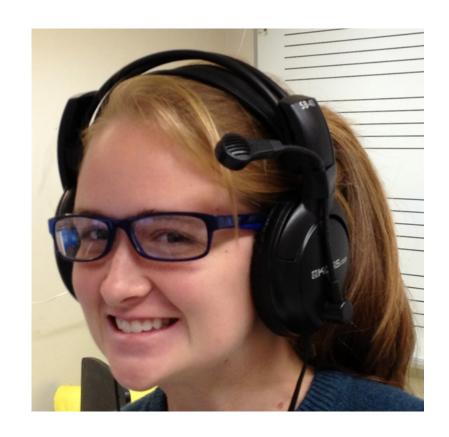
#### **GEC3 - Student Interface**



Student Interface Unit - SI (back view)

### **Headphone Care**

- Always use 2 hands to put on/off
- Avoid pulling on wires
- Mic is on the LEFT
- Koss will repair damaged headphones for \$14 per unit
- Suggestion: Rarely unplug
- Suggestion: Tape mic in the up position

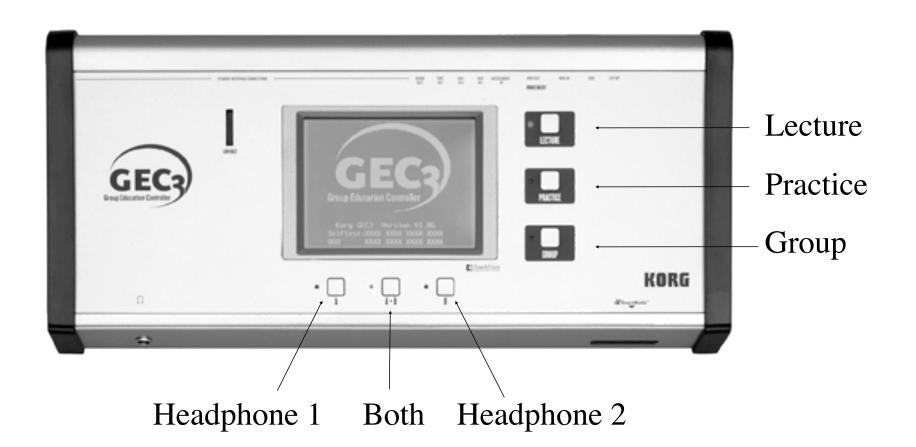


#### **GEC3 - All Call**

- Silences all student sound.
- Allows teacher to talk and play without student distractions.
- Uses:
  - □ To avoid distraction during a lesson lecture
  - □ To signal a transition to a new topic or activity

```
Lecture/theory 1
#13:
                               #16:
Judy
          Student14 Student15 Student16
          Student14 Student15 Student16
Robie
# 9:
          #10:
                     #11:
                                #12:
tiffany
          Student10 | Student11 | Student12
          Student10 Student11 Student12
rogger
# 5:
          # 6:
                     # 7:
                                # 8:
           fred
sue
                     rod
                                gina
           jessica
                     phil
                                rick
veronika
# 1:
                                # 4:
          # 2:
                     # 3:
Brad S.
                     johnny
          Dannu
                                ted
                     thomas
                                vivi
           Volume Global
```

#### **GEC3 - 3 Main Modes**



#### **GEC3 - Lecture Mode**

- Students will hear teacher's keyboard, microphone, and computer.
- For advanced students, omit them from the lecture.
  - ☐ Lecture Mode: Setup: Omit from Lecture checkbox.
- Uses:
  - ☐ Students playing along with the teacher
  - ☐ Teacher lecture
  - ☐ Students share/perform for entire class

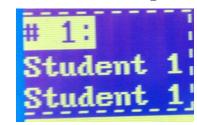


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#### **GEC3 - Practice Mode**

- Students will only hear their own station.
- Teacher can eavesdrop (listen without the student knowing) by pressing once on a student station.
- Teacher can work with an individual student by pressing twice on a student. Teacher and student can each hear each other's computer/keyboard and they can communicate via the headset microphone.

  \*\*Eavesdrop\*\*
- Uses:
  - ☐ Individual student practice
  - □ 1 on 1 student teacher interaction
  - □ Eavesdropping

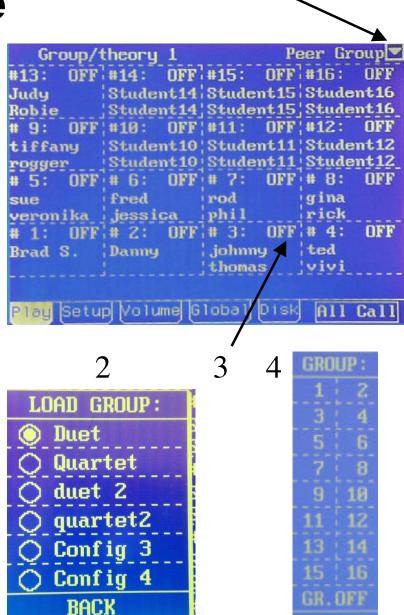


1-on-1



### **GEC3 - Group Mode**

- Students will hear each other's keyboard/mic/computer
- Press the arrow (1) in the upper right corner to access the various presets (2):
  - □ Duet
  - Quartet
  - □ Config you can configure several custom group settings.
- Group students together manually:
  - □ Press "OFF" (3) next to a student station.
  - □ Select the group number (4).
- Uses:
  - □ Duets, trios, quartets, etc
  - □ Group jam
  - □ Students assisting their peers

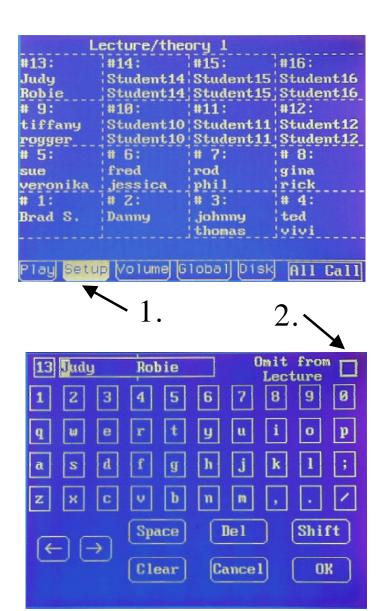


#### **GEC3 - Setup Tab**

You can omit one or more students from a lecture:

- Press Lecture
- Press the Setup tab (1)
- Press any one of the student stations
- Press the "Omit from Lecture" button (2)
   \*\*You can also name students in the same screen.
- An X will appear next to this station in Lecture mode (3).
- Be sure to reverse these steps to bring the station back into Lecture mode.

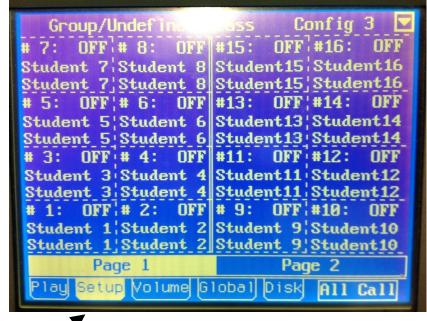


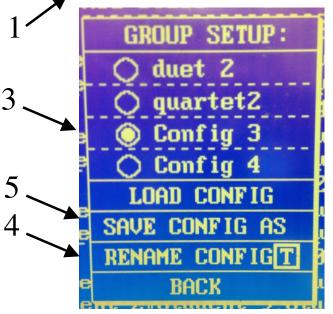


#### **GEC3 - Setup Tab**

You can save a custom group configuration.

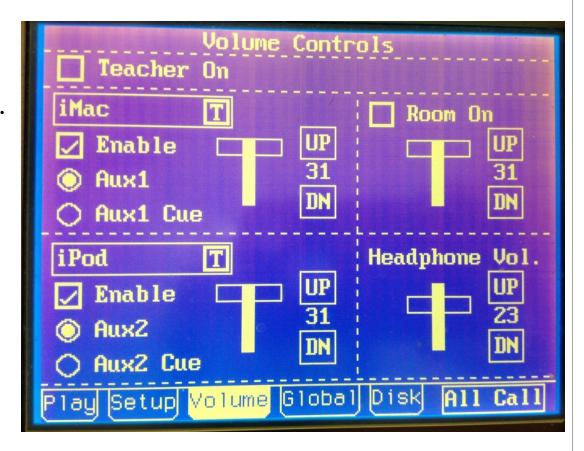
- Press Group mode
- Press the Setup tab (1)
- Create the groups as desired
- Press the arrow in the upper right corner (2)
- Select an open configuration (3)
- Select Rename Config (4), type in an appropriate name, and select OK
- Select "Save Config As" (5)





#### **GEC3 - Volume Tab**

- Press Volume tab
- Turn "Teacher On" enables or disables teacher instrument/mic. In Practice mode the default is OFF; in Lecture mode the default is ON
- Enable Aux devices (computer, iPod, etc.)
- Turn on room speakers
- Adjust teacher headphone volume



#### **GEC3 - Global Tab**

- Press Global tab
- Enable/disable Call, Student mics, student instruments
- Adjust view preference
- Select a teacher (up to 16)
- Select a class (up to 8/teacher)

```
Class - Teacher Setup

Teacher: Michael Fein

☐ Use teacher preferences

Teacher Preferences:
☐ Call enabled ☐ Student mics. en.
☐ Split display ☐ Student inst. en.
☐ 4x4 view ⑥ 2x8 view ○ Circular

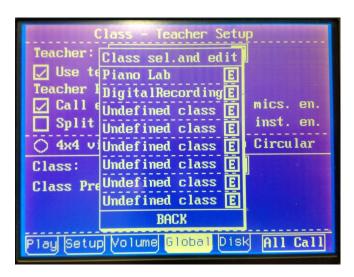
Class: Piano Lab

Class Preferences:
```

```
Teacher selection and edit
Michael Fein E Undef. teacher 2E
Undef. teacher 3E Undef. teacher 4E
Undef. teacher 5E Undef. teacher 6E
Undef. teacher 7E Undef. teacher 8E
Undef. teacher 9E Undef. teacher 10E
Undef. teacher 11E Undef. teacher 12E
Undef. teacher 13E Undef. teacher 14E
Undef. teacher 15E Undef. teacher 14E
Undef. teacher 15E Undef. teacher 16E

BACK

Play Setup Volume Global Disk All Call
```



#### **GEC3 - Disk Tab**

- Press Disk tab
- Send split sounds to specific keyboards
- Save Class Setup (teacher, class, student names, etc.)
- Save Global Setup (custom group config, volume tab settings, global tab settings)

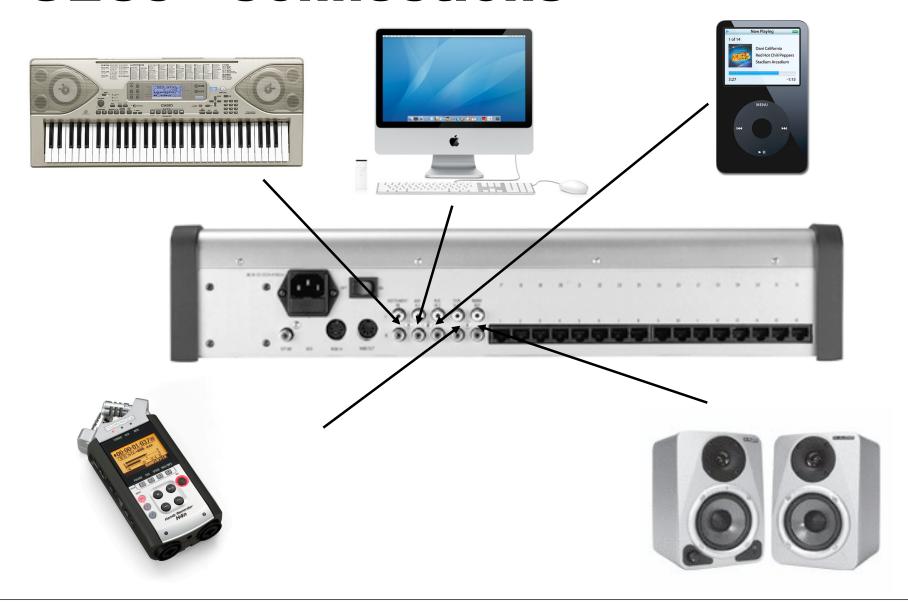


#### **GEC3 - Connections**

- Connect teacher's keyboard to "Instrument In"
- Connect teacher's computer to "Aux In 1"
- Connect CD Player, iPod, tablet, laptop, etc. to "Aux In 2"
- Connect classroom speakers to "Room Out".
- Connect portable recorder to "Tape Out".



#### **GEC3 - Connections**





- Selecting a tone
  - Select a tone group from the tone buttons
  - □ Rotate the jog wheel to select a tone
  - □ Layering select a tone, then hit Layer, then select another tone
  - □ Split select a tone, hit Split, select another tone for the bottom half the keyboard
    - To set the split note: hold Split button, press note for split point
    - To split and layer, do the layer first, then the split, and select a split tone
  - Effects: Hold Function and press Mixer/Effect. Reverb, Chorus, DSP (lots of effects in here)

- Transpose
  - □ Transpose half steps: Hold Function button and press -/+ keys
  - □ Transpose by octaves: Hold down Layer/Octave button and use -/+ keys
  - Detune: press Function button and press -/+ keys
- Enabling the metronome
  - Press Metronome button
  - □ Adjust tempo by pressing Tempo Up/Down button
  - □ Change meter: hold Metronome/Beat button and press -/+ keys
  - □ Tap tempo: hold Function button and tap the Tempo Up/Tap button in the tempo you want to set
- Arpeggiator
  - □ Hold Auto Harm/Arp button and select 13-162 for the various types of arpeggiators

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- Rhythmic/Auto Accompaniment
  - Select a rhythm and hit Play
  - □ To do Auto Accomp, hit the Accomp On button and play chords in left hand
  - □ To add auto harmonize: press and hold the Auto Harm/Arp and select 1-13
- Song Sequencer
  - □ Press Song Sequencer
  - □ Press Record
  - □ Use arrows to select a track
  - Press Function and Menu to turn on metronome and pre-count
  - □ Press Play button (4 beats, then start)
  - □ To clear a track/song press Funct and Menu
- Initialize Settings to Factory Defaults
  - □ Press Function
  - ☐ Use arrows to move down to General and press Enter
  - □ Use arrows to move down to Intialize and press Enter
  - ☐ Use arrows to move down to All and press Enter

- Loading Split Data from SD Card
  - □ Insert SD Card in back of keyboard
  - ☐ Hit "BANK" button under Registration.
  - □While the word "BANK" is still on the screen, hold down FUNCTION (to the right of the dial with blue ring) and press CARD (to the left of the dial with blue ring).
  - □ Following will appear on the screen:

—Regist Load—
(001)

VH1SPLIT.RM7

☐ Hit "ENTER" (above > key) and "YES"

- Press "BANK" under Registrations to scroll you through the 8 banks
- Press the numbers to the right of "BANK" to call up the following splits:

	REGISTRATION				
BANK	1	2	3	4	
C-8	C-9	C-10	C-11	C-12	

#### Registration Bank 1

- 1 Grand Piano
- 2 Electric Piano
- 3 Harpsichord
- 4 Vibraphone

#### Registration Bank 3

- 1 Overdrive Guitar
- 2 Acoustic Bass
- 3 Violin
- 4 Cello

#### Registration Bank 2

- 1 Marimba
- 2 Rock Organ
- 3 Pipe Organ
- 4 Nylon Guitar

#### Registration Bank 4

- 1 Contra Bass
- 2 Pizzicato Strings
- 3 Choir Strings
- 4 Trumpet

#### Registration Bank 5

- 1 Tenor Sax
- 2 Clarinet
- 3 Flute
- 4 Saw Lead 2



## Thank you for attending this webinar!

Feel free to email me with any follow-up questions. Michael Fein - michael@feinmusic.com