

CLASSNET TWIST MULTILOOP

What is the Twist MultiLoop?

The Classnet Twist classroom has one loop that connects up to 15 Student units with the Teacher unit. With the MultiLoop you can have up to five smaller loops in one classroom, giving you the following advantages:

- Connect up to **63** Student units to the Classnet Twist System.
- An increase in the overall system cable distance of up to 300m / 980 ft.
- An increase in the overall quality of the Classnet Twist system.

The figures below illustrate the front and rear of the MultiLoop.

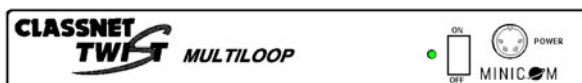


Figure 1 The MultiLoop front view

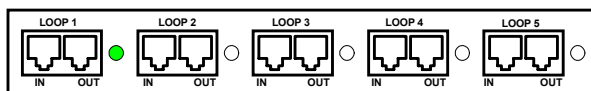


Figure 2 The MultiLoop rear view

Installing the MultiLoop

Set up the classroom layout by evenly dividing the Student stations between all five loops. In figure 3 below the MultiLoop is installed in a classroom of 1 teacher and 63 students. The Teacher unit **MUST ALWAYS BE** in loop 1. The maximum number of Classnet Twist units in each loop should not be more than 16. The maximum length of the System cable in each loop should be less than 60m / 198ft.

Place the MultiLoop away from florescent lights, strong magnetic and electromagnetic fields and all other sources of electrical noise.

Connect the 9VAC power adapter to the power connector on the front panel of the MultiLoop and plug the cord into a wall socket.

Connect the loops using standard CAT 5 FTP System cable as follows:

1. Connect the OUT port of loop 1 of the MultiLoop to the IN port of the first Twist unit.
2. Connect the OUT port of the last Twist unit in the loop to the IN port of loop 1 of the MultiLoop. For best performance, connect the Teacher unit as the last station in loop 1.
3. Connect the other loops to the rest of the Twist units, as above.
4. Set the Student unit ID numbers according to your classroom layout. To set the ID numbers, see the Classnet Twist Installation Guide.

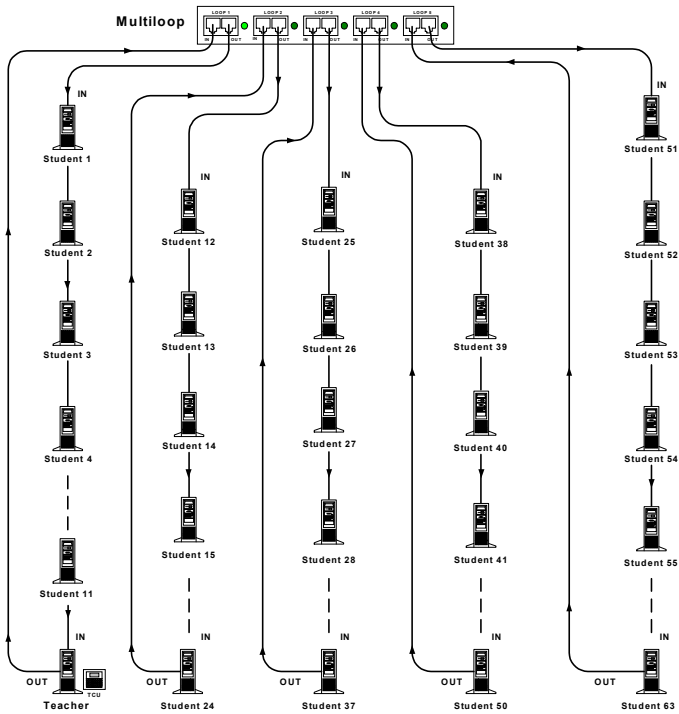


Figure 3 The Classnet Twist MultiLoop Configuration

Mapping the classroom layout

Map the classroom layout before operating the **Classnet Twist** system.
When using Minicom's AristoClass or Classnet Control Panel Software see page 4.

To map the classroom layout:

1. Switch on all computers and Classnet Twist units.
2. Press the following key sequence on the Teacher Control Unit (TCU):

Print-Mastr-Enter-Print-Print-5-5-Enter.

Mapping takes less than 30 seconds. During the mapping, all five green LEDs on the MultiLoop rear panel illuminate. Once finished the LEDs darken.

3. After 30 seconds press **Print**. The Classnet Twist system is now operational. When a Classnet command is sent, the LED of the loop from which it is sent will illuminate.

Perform the classroom mapping procedure every time you change the classroom setup.

CLASSNET TWIST MULTILOOP

Changing the mapping hotkey

The default mapping hotkey is 55 (5-5 see step 2 above). This figure can be altered to any 2 digits from 01 to 63.

To change the mapping hotkey:

1. Connect the MultiLoop directly to Teacher Interface Unit (TIU).
2. On the Teacher Control unit (TCU) press the following keys:
 1. **Group-7**. This group number appears on the TCU LCD screen.
 2. **Clear-Clear-Group-7**.
 3. Any 2 digits from 01 to 63. These 2 digits will represent the new mapping hotkey for that MultiLoop.
 4. **Enter**.

For example to input the number 44: Press **Group-7-Clear-Clear-Group-7-4-4-Enter**.

Note! The MultiLoop rear panel LEDs will not illuminate during this procedure. They only illuminate during the class mapping procedure.

3. Press: **Print-Mastr-Enter-Print-Print-Group-7-Enter-Print**. The new hotkey is assigned to that MultiLoop.
4. Disconnect the MultiLoop from the TIU and connect it into its position in the class, with all loops attached.
5. Map the classroom using the new key sequence. On the TCU press:
Print-Mastr-Enter-Print-Print-YY (The 2 digits chosen in step 2.3 above)-Enter- after 30 seconds press **Print**.

Using 2 or more MultiLoops

When using two or more MultiLoops in the same system, each MultiLoop must have a unique mapping hotkey. Figure 4 below illustrates a classroom with 2 MultiLoops.

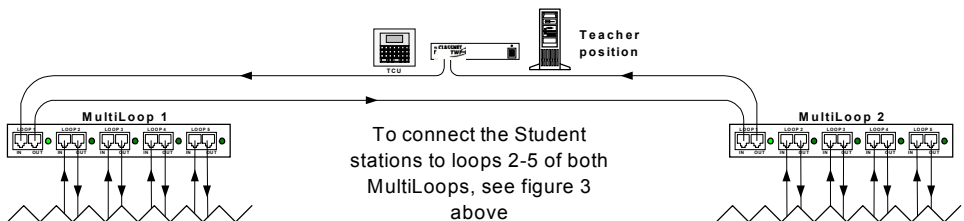


Figure 4 Using 2 MultiLoops

Follow steps 1-4 on page 3 above to change the mapping hotkey of at least 1 of the MultiLoops.

Once the new hotkeys are assigned, map all MultiLoops. For example, if there are 2 MultiLoops with hotkeys 55 and 44, map the classroom by pressing the following keys on the TCU:

Print-Mastr-Enter-Print-Print-5-5-Enter-wait for 30 seconds and press **Print**.

Now press:

Print-Mastr-Enter-Print-Print-4-4-Enter-wait for 30 seconds and press **Print**.

Each Classnet MultiLoop will scan the classroom and save the Twist units location map in its memory.

Mapping the Classroom layout using AristoClass or Classnet Control Panel software

To map the classroom layout:

1. Open the Teacher main window.
2. From the **File** menu choose **Setup**. The Setup window appears.
3. Click the **Classnet** tab. The **Twist System Configuration** box appears. See Figure 5.
4. Click the **Send MultiLoop Seq.** button. The mapping starts. During the mapping, all five green LEDs on the rear panel of the MultiLoop illuminate. Once finished, the LEDs darken.
5. After 30 seconds click **Exit**. The system is now operational.



Figure 5 The Twist System Configuration box

Headquarters

Minicom Advanced
Systems Ltd.
Jerusalem, Israel
Tel: +972 2 651 8593
Fax: +972 2 651 8971

USA

New Jersey, USA
Tel: toll free:
888 486 2154
Fax: +1 908 486 7788

German Europe

Zurich, Switzerland
Tel: +41 1 455 6220
Fax: +41 1 455 6225

Italy

Rome, Italy
Tel: +39 06 8209 7902
Fax: +39 06 8209 7903

Web site - www.minicom.com

Customer service - minicom@minicom.com