

# *Opus*

## PGIA Operation Manual

Version	Date	By	Description
1.00	26 October 2009	Shmuel Shalem	First version
1.01	1 November 2009	Shmuel Shalem	Added regulation requirements

## 1. Description

### 1.1. Target & Concept

1.1.1. The PGIA (Portable Group Item Activator) is a feature in the Opus system providing a single dedicated Opus (the “Guide”) to remotely trigger a specific Item in a group of Opus’s (the “Visitors”) residing in its vicinity.

The triggered Item plays in the pre-selected Tour & Language of each Visitor, creating a system concept of “multi-language” yet “group-controlled”.

1.1.2. The feature is based on the short-range RF communication capability that is built-in in all Opus Players.

1.1.3. The Visitors can be pre-assigned a “group number” and a Guide can associate itself to this group so members of other groups in the vicinity will not be affected.

1.1.4. Note that this capability requires the following software layer versions:

- uCode version 2.15 or higher
- OS version 4.03 or higher
- App version 3.51 or higher

### 1.2. “Visitor” Opus operation

1.2.1. Turn the Opus ON by pressing the PLAY key.

1.2.2. Enter through the Start-screen, and then select a Tour and a Language.

1.2.3. Leave the Player at the Numeric-entry-screen; this is where the remote-activation is possible.

1.2.4. When an Item is remotely triggered, the screen backlight is highlighted, and the Item starts its playback automatically.

1.2.5. When an Item is playing, all playback controls work as in manual operation, i.e. the Volume, Pause/Resume, Stop etc.

1.2.6. If returning to menus is required, use the following Special Codes:

- 9 9 9 9 PLAY                      return to Start-screen
- 9 9 9 8 PLAY                      return to Tours menu screen

- 9 9 9 7 PLAY            return to Languages menu screen

1.2.7. To turn the Opus OFF, use any of the following:

- 9 8 0 3 PLAY
- Press STOP continuously for more than 5 seconds

### **1.3. “Guide” Opus operation**

1.3.1. Turn the Opus ON by pressing the PLAY key.

1.3.2. Enter through the Start-screen into the Numeric-entry-screen.

1.3.3. To remotely-trigger an Item to the Visitors in the Group, dial its numeric-label and press PLAY. A “transmission” animated screen appears for the period at which the auto-trigger signal is repeatedly transmitted, and then automatically disappears. The screen is back to the numeric-entry mode for the next possible activation.

1.3.4. The Auto-trigger transmission time is set by default to ~20 seconds. It can be modified through the Content.

1.3.5. If it is required to remotely STOP the Visitors in the Group, use the following Special Code:

- 9 9 0 0 PLAY

### **1.4. Associating Visitors & Guide to a Group**

1.4.1. By default, all Visitor & Guide Opus’s are shipped with Group 0 association. This means “no Group boundary”.

1.4.2. Groups can be assigned in a “Group-range”, default is 1-16.

1.4.3. If needed, the Group-range can be modified through the Content package.

1.4.4. A Visitor assigned to Group N can be activated by a Guide N or by a Guide 0.

1.4.5. A Guide assigned to Group N can activate Visitors of Group N and Visitors of Group 0.

1.4.6. In general it is recommended to either use “0” for the whole site (if there are no physical conflicts between groups) OR to avoid “0” and use groups partitioning through the whole system, visually marking the Opus’s accordingly.

1.4.7. Any Visitor or Guide Opus can be associated to a Group by programming it using the following Special Codes:

- 9 9 0 2 PLAY                      View current Group
- 9 9 0 1 PLAY X X PLAY      Modify Group to XX

1.4.8. The new Group association is saved into the Opus internal Content memory, so it stays the same through OFF/ON sequence (i.e. no need to re-program it after each opus turning ON).

## **1.5. Operation “tips”**

1.5.1. Using the Opus’s with the speaker folded-in provides a better RF performance. This is applicable to both the Visitor and the Guide Opus’s.

1.5.2. The Visitors should wear the Opus using the neck-strap, on the body front and not on the shoulder/side.

1.5.3. The Guide performs best during activation when being held in the hand and pointed to the Visitors (a “natural” position).

1.5.4. It may be required for the Guide to move around the Group Visitors for all visitors to be triggered, since the visitors may be in different positions and the human-body attenuates the transmitted signal.

## 1.6. Regulation

### The FCC Wants You to Know

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- a) Reorient or relocate the receiving antenna.
- b) Increase the separation between the equipment and receiver.
- c) Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- d) Consult the dealer or an experienced radio/TV technician.

### FCC Warning

Modifications not expressly approved by the manufacturer could void the user authority to operate the equipment under FCC Rules.

# Acoustiguide's Opus

## User's Manual



This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

## **OPUS GENERAL INSTALLATION**

1. Carefully remove the cabinet rack from the box. Do not throw any shipping boxes away. You will need these boxes to ship the equipment and ensure the racks and units are not damaged on route.
2. Racks can be stacked a maximum of 2 high. Each rack has its own power plug.
3. Plug each rack into a designated 24 hour, continuous, uninterrupted circuit. A common power strip should not hold more than 4 racks per strip.
4. Slide the unit into the rack at a 45° angle along the side guides, ensuring that the cords are in the guides, until the red light comes on.
5. Insert the OPUS units into each pocket in the rack, starting with the bottom row and working your way up. When inserted correctly, the unit will make a single beep sound and show a red light when properly inserted.
6. The red light on each unit will stay until the battery is fully charged (3-4 hours on a fully drained battery) at which point it will turn green.  
\*Equipment must be charged overnight before first use.
7. See Troubleshooting section for what to do if unit charges overnight and does not get a green light result.
8. Charging racks should remain powered on at all times.



## EQUIPMENT



### General Opus rack profile:

- Width: 20 inches
- Height: 26.77 inches
- Depth: 9.5 inches
- Weight: 65 pounds

Racks can be stacked 2 high maximum.

Power switch is located on the left side of the rack.

**Never** ship a rack with units inside, key inside lock or with A/C cords or “L” bracket attached.



L-Mounting Bracket



**OPUS CLICK**



**OPUS TOUCH**

## **OPUS OPERATION**

Each Acoustiguide Opus tour is customized and there are a number of differences that make your tour unique. Due to this, a standardized user instruction is difficult. However, here are the basic steps of Opus operation:

1. To turn a unit on, press and hold the green [play] button until you hear a single beep noise.
2. While the unit cycles through boot-up screens, do not press any buttons.
3. Follow the on-screen prompts to select languages and launch the tour.
4. If unit does not turn on or exhibits faulty behavior, see the Troubleshooting section.
5. Unit will go to 'sleep' mode to conserve battery if left inactive for 10 minutes. To revive just press any button.

## **OPUS DISTRIBUTION**

When distributing Opus equipment the first step is to instruct the visitor to place the unit strap around their neck. It may be helpful to point to corresponding buttons or signage when going over the following features:

1. Look for audio tour icons located throughout the exhibit. The icons will be numbered.
2. To see/hear about a specific item highlighted on the audio tour, press the corresponding number on the keypad and press the green [play] button.
3. To pause the tour at any time press the green [play] button again. Press once more to resume.
4. To stop the tour and reset the keyboard, press the red [stop] button.
5. Volume control is on located on the left side of the unit.
6. Some tours may make use of the FWD and RWD button on the unit; these controls are placed differently on the CLICK and TOUCH units. These buttons cycle through the tour stops sequentially. This information does not need to be released to visitors but is an option.
7. To unfold the unit speaker press and hold the button located on the speaker axle; flip the speaker open or closed.
8. For headphones, insert cord plug into the location on the right side of the unit.
9. Remind the visitor to return unit at designated drop point.

## **CLEANING**

Units should be wiped down daily with a bleach-free, disinfectant wipe. Straps can be freshened with a light spraying of a fabric freshening product. Acoustiguide's vinyl headphones can also be wiped with a bleach-free, disinfectant wipe.

## TROUBLESHOOTING

Before sending a piece of equipment back to the warehouse for repair, Acoustiguide recommends using this checklist of troubleshooting techniques. If your particular problem is not covered in this section contact Jason Lujan at [jlujan@acoustiguide.com](mailto:jlujan@acoustiguide.com).

<b>Green light</b>	Fully charged unit
<b>Yellow light</b>	Semi-charged unit. These units may be used but avoid giving out if possible.
<b>No light</b>	Try a different charging pocket to charge. If this fails, the unit should be sent back to the warehouse for repair.
<b>Blank or White Screen</b>	Plug the wand into charge rack and remove. If this fails, replace unit to charge overnight and try again. If the above fails, the unit should be sent back to the warehouse for repair.
<b>No Sound</b>	Ensure that the play button has been pressed and that the volume is at a suitable level.
<b>Program Error</b>	Plug the wand into charging rack and remove. If this fails, replace unit to charge overnight and try again. If the above fails, the unit should be sent back to the warehouse for repair.

## REPAIRS

1. Be sure to fill out the orange repair sticker and place on all units being sent to the warehouse.
2. Phone Acoustiguide Operations at 212-329-1241 or email [operations@acoustiguide.com](mailto:operations@acoustiguide.com) and request a Return Merchandise Authorization (RMA) form. Acoustiguide's Operations team can help you with this procedure and answer any shipping questions.