

Overview

Multiple GRAFIK Eye Control Units can be controlled with a Master Control from the RadioRA System. This will allow control of all the GRAFIK Eye Control Units in a system from one or multiple Master Controls. Thirty two GRAFIK Eye Control Units can be operated together or "mastered." Up to 12 Master Controls can be used in one system.

Components

In order to achieve this application, each system requires the following RadioRA equipment:

- **Repeater (RA-REP-WH)** - This allows for system set-up and diagnostics. It also provides an additional path for Radio Frequency (RF) signals to be sent between Dimmers, Switches, Master Controls, and Interfaces. The range that a Repeater can communicate with a Master Control or a GRAFIK Eye Interface is 30 feet. If the distance between a Repeater and a Master Control or GRAFIK Eye Interface is more than 30 feet, up to three additional Repeaters may be added. The range that a Repeater can communicate with another Repeater is 60 feet. The Repeater simply plugs into an outlet using the provided AC adapter.

- **GRAFIK Eye Interface (RA-GRXI-WH)** - This allows the control of GRAFIK Eye Control Units from any RadioRA Master Control button. A maximum of 32 interfaces, dimmers, or switches are allowed per system. Each Interface can control from 1 to 8 GRAFIK Eye Control Units simultaneously, however it is recommended that only **one** GRAFIK Eye Control Unit be controlled by an Interface. This is because Interface commands are sent to **all** GRAFIK Eye Control Units on the same Interface link. Therefore, all of the GRAFIK Eye Control Units on each Interface would respond as one. Interface commands can not solely be sent to an individual GRAFIK Eye Control Unit on one link of multiple Control Units. An Interface will appear as an Accessory control to a GRAFIK Eye Control Unit and will use Address 15. Therefore, Address 15 can not be used by any other GRAFIK Eye Accessory Control.

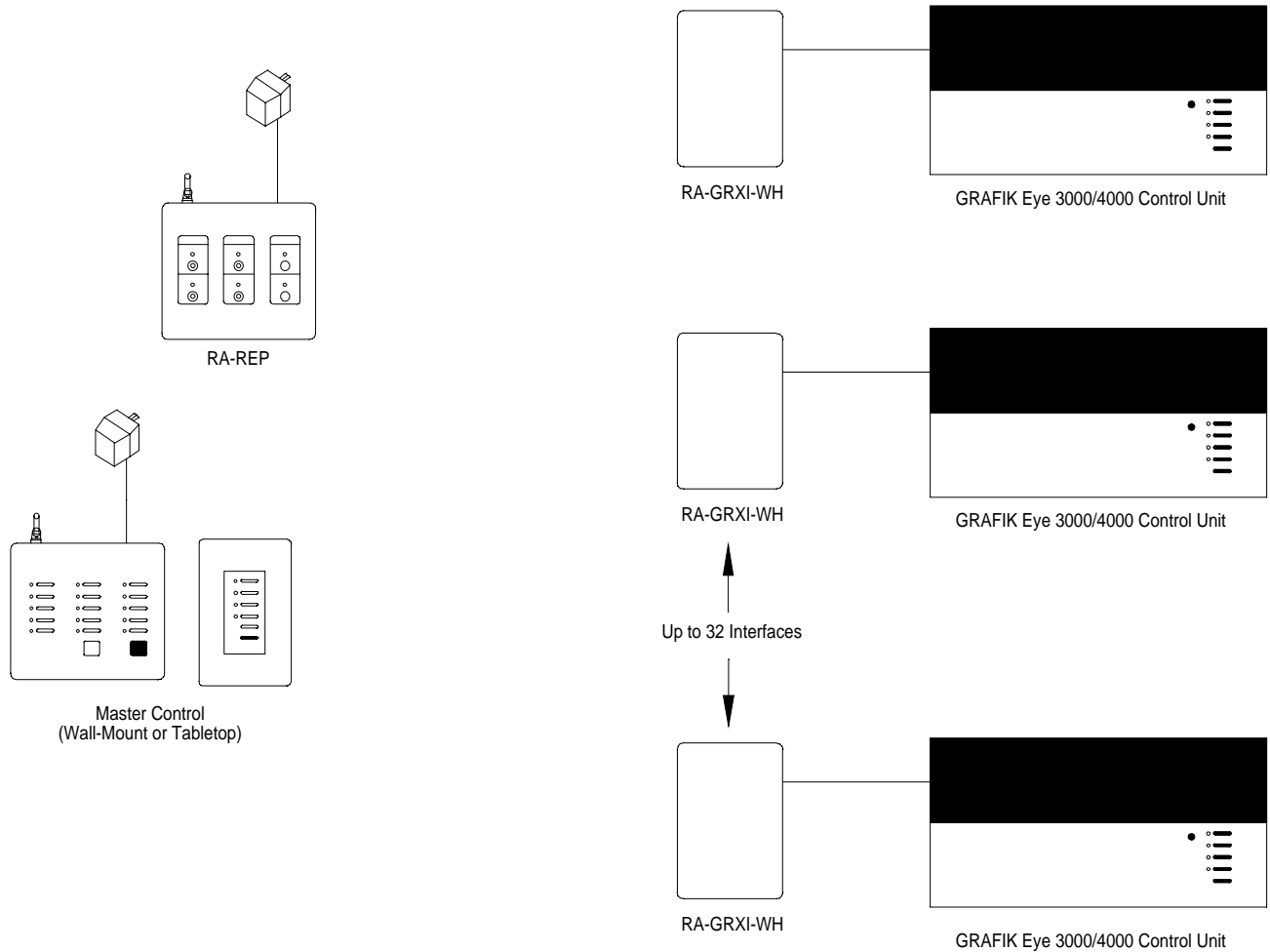
- **Master Controls** - The RadioRA Master Controls are available in two varieties, wall-mounted and tabletop. Each of these two varieties are available in 5, 10, or 15 button configurations. The functions of these buttons are all individually programmed. Each button press on a Master Control toggles the programmed scene ON and OFF for each of the GRAFIK Eye Control Units connected to a particular Interface. Each of the Master Controls provide an additional ALL ON button and an ALL OFF button. These Master Controls can be combined to provide the desired number of buttons for activating up to 32 GRAFIK Eye Interfaces. A maximum of 12 Master Controls of any button configuration (5, 10, or 15) can be used per system. Each button has a corresponding LED next to it. This LED will be ON if any lights connected to the GRAFIK Eye Control Unit(s) through an Interface are ON. The tabletop control simply plugs into a receptacle using the provided AC adapter, while the wall-mounted control is wired like a standard wall switch or dimmer. The model numbers for all of these controls are listed below:

	Wall-Mounted	Tabletop
5 Button	RAMC-5W-	RAMC-5T-WH
10 Button	RAMC-10W-	RAMC-10T-WH
15 Button	RAMC-15W-	RAMC-15T-WH

NOTE: For set-up or programming of any of the RadioRA equipment, refer to the RadioRA Setup Guide.

Set-up

The following diagram illustrates how this system would be set up. Note that there are no wire connections between the RadioRA components (Repeater, Master Control, and Interface). This is because these components use radio frequency for communication.



Note: For applications where GRAFIK Eye controls are operated on generator power, the RA-GRXI may need to be powered using a 24VAC transformer. Call the Lutron Technical Assistance Hotline (1-800-523-9466) for further details.

Applications

RESIDENTIAL

This application allows up to 32 GRAFIK Eye Interfaces (links) to be used. Up to 16 scenes per GRAFIK Eye link can be accessed through each Interface using a Master Control(s). Since the system maximum is 12 Master Controls, a maximum of 180 scenes are accessible. These scenes can be assigned to particular Interfaces in any manner suitable to the application.

One example of this application would be to link up to 32 GRAFIK Eye Control Units with individual Interfaces to create a whole home Master Control. Therefore, one set of Master control keypads (tabletop or wall-mounted) can be used to select scenes or monitor lights throughout an entire house. The Control Units could be placed throughout the home providing control of rooms such as the dining room, living room, home theater, kitchen, main entrance from a Master Location. This could be accomplished by programming the Master Control buttons to activate any of the 16 scenes available on any of the GRAFIK Eye Control Units. However, given the constraint of a maximum of 12 Master Controls in a system, a maximum of 180 scenes can be accessed. The Master Controls are also helpful in monitoring the lights by illuminating the LED next to the button on the Master Control if any of the lights connected through the assigned Interface are ON.

COMMERCIAL

The above example could also be applied to hotels or conference facilities for monitoring lights in rooms after the occupants have left. If up to 32 rooms each had a GRAFIK Eye Control Unit in it and the front desk had a Master Control, the LEDs beside each button would show if any of the lights were left on and therefore could be turned OFF. Additionally, the buttons on the Master Control(s) could be programmed to turn a particular scene ON when new occupants enter the rooms.

Additional Information

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