![Valcom IP Solutions logo]

VIP-429A-A-SA
Syn-Apps® Compliant
IP Talkback Speaker Clock Assembly

SPECIFICATIONS
Access Methods
- Syn-Apps Server
- PBX, FXO Port via Valcom FXS Network Station Port
- POTS telephone set via Valcom FXS Network Station Port
- PBX, FXS Port via Valcom FXO Network Trunk Port
- Valcom Multicast Page Group
- SIP – enabled telephone system

Features
- RJ-45 network connection
- 802.3af compatible
- Network Time Protocol (NTP) synchronization

DIMENSIONS/WEIGHT
- 14.50" H x 13.00" W x 3.40" D
  (36.93cm x 33.02cm W x 8.64cm D)
- Weight: 4.8 LBS (2.17 kg)

Environment
Temperature: 0 to +40° C
Humidity: 0 to 85% non-precipitating

Nominal Power Requirements
Via 802.3af PoE Ethernet Switch: Class 3

These products are intended for use with a UL Listed power source marked "Class 2" or "LPS" rated 24VDC, or 48VDC (PoE).
PoE and all interconnected ITE are intended for intra-building.
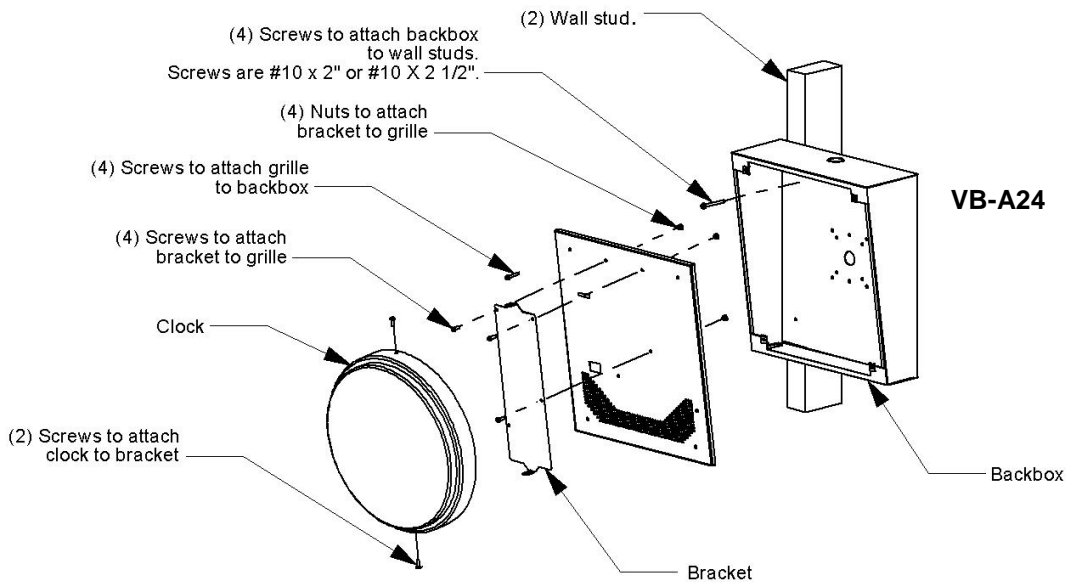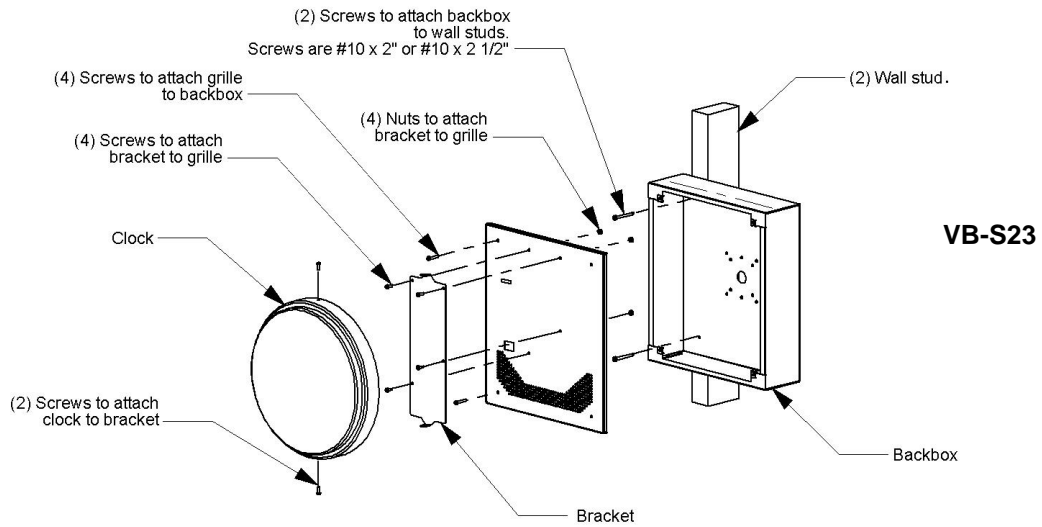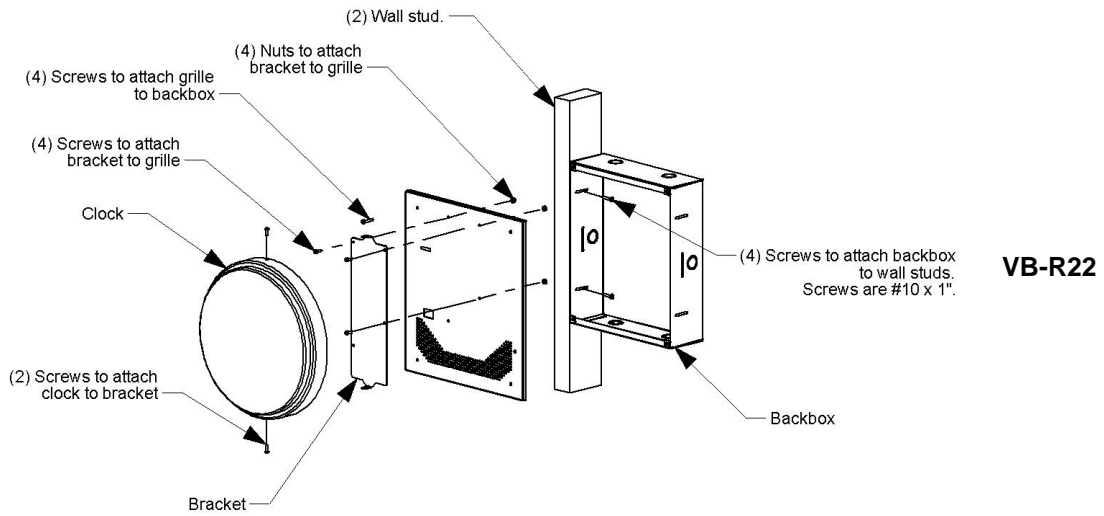

IMPORTANT SAFETY INFORMATION
CONSIGNES DE SÉCURITÉ IMPORTANTES
1. *Read these instructions.*
   Lisez ces instructions.
2. *Keep these instructions.*
   Conservez ces instructions.
3. *Heed all warnings.*
   Respectez tous les avertissements.
4. *Follow all instructions.*
   Suivez toutes les instructions.
5. *Do not use this apparatus near water.*
   Ne pas utiliser cet appareil près de l'eau.
6. *Clean only with dry cloth.*
   Nettoyer avec un chiffon sec.
7. *Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.*
   Ne pas bloquer les ouvertures de ventilation. Installer formément aux instructions du fabricant.
8. *Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.*
   Ne pas installer à proximité de sources de chaleur telles que radiateurs, registres de chaleur, poêles ou autres appareils (y compris les amplificateurs) produisant de la chaleur.
9. *Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade and the third prong are provided for your safety. If the provided plug does not fit into your outlet consult an electrician for replacement of the obsolete outlet.*
   Ne pas contourner le dispositif de sécurité de la fiche polarisée ou de mise à la terre. Une fiche polarisée possède deux lames dont une plus large que l'autre. Une fiche de terre a deux lames et une troisième broche de mise à la terre. La lame large et la troisième broche sont fournies pour votre sécurité. Si la fiche fournie ne rentre pas dans votre prise, veuillez consulter un électricien pour le remplacement de la prise obsolète.
10. *Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles and the point where they exit from the apparatus.*
11. *Only use attachments/accessories specified by the manufacturer.*
    N'utilisez que des fixations / accessoires spécifiés par le fabricant.
12. *Use only with the cart, stand, tripod, bracket or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.*
    Utilisez uniquement avec le chariot, stand, trépied, support ou table spécifié par le fabricant ou vendu avec l'appareil. Quand un chariot est utilisé, Soyez prudent lorsque vous déplacez l'ensemble chariot / appareil pour éviter des blessures dues au renversement.
13. *Unplug this apparatus during lightning storms or when unused for a long period of time.*
    Débranchez cet appareil pendant les orages ou lorsqu'il n'est pas utilisé pendant une longue période de temps.
14. *Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way. Such as when the power supply cord or plug is damaged, liquid has been spilled, objects have fallen into the apparatus or the apparatus has been exposed to rain or moisture and does not operate normally or has been dropped.*
    Confiez toute réparation à un personnel qualifié. Une réparation est nécessaire lorsque l'appareil a été endommagé de quelque façon. Par exemple lorsque le cordon d'alimentation ou la fiche est endommagé, du liquide a été renversé, si des objets sont tombés dans l'appareil ou le appareil a été exposé à la pluie ou à l'humidité et ne fonctionne pas normalement ou s'il est tombé.

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(2) Wall stud.

(4) Nuts to attach bracket to grille

(4) Screws to attach grille to backbox

(4) Screws to attach bracket to grille

Clock

(4) Screws to attach backbox to wall studs. Screws are #10 x 1".

VB-R22

(2) Screws to attach clock to bracket

Backbox

Bracket

(2) Screws to attach backbox to wall studs. Screws are #10 x 2" or #10 x 2 1/2"

(4) Screws to attach grille to backbox

(4) Nuts to attach bracket to grille

(4) Screws to attach bracket to grille

Clock

(2) Wall stud.

VB-S23

(2) Screws to attach clock to bracket

Backbox

Bracket

(4) Screws to attach backbox to wall studs. Screws are #10 x 2" or #10 X 2 1/2".

(2) Wall stud.

(4) Nuts to attach bracket to grille

(4) Screws to attach grille to backbox

VB-A24

(4) Screws to attach bracket to grille

Clock

(2) Screws to attach clock to bracket

Backbox

Bracket

Figure 1. Assembly and Mounting

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INSTALLATION
Assembly and Mounting
The VIP-429A-A-SA is designed for recessed or flush mounting to a Valcom backbox (not included). For recessed mounting, the Valcom VB-R22 may be used. For surface mounting, use the Valcom VB-S23 or VB-A24.

Mount the clock face to the speaker grille using the clock mounting bracket included in the clock package (See Figure 1). The mounting bracket should be attached to the speaker grille using two screws and nuts provided, with the large rectangular cutout in the bracket aligned with the similar hole in the grille.

Before mounting the clock to the bracket, remove the shipping pin from the back of the clock movement. Connect the 5-pin Molex connector to the clock movement and route the wiring harness through one of the square cutouts in the speaker grille to the clock circuit board. Insert the 4-pin screw connector into the receptacle on the clock circuit board. Mount the clock face to the clock bracket with the two black screws provided.

With the clock mounted to the speaker grille, connect an RJ-45 Ethernet cable to the network jack on the speaker circuit board, then mount the grille to the backbox with the hardware provided.

Network Connection
The VIP-429A-A-SA has one RJ-45 network connector on the rear panel. Use a standard patch cable to connect the VIP-429A-A-SA to an Ethernet switch providing Power over Ethernet (PoE) meeting the 802.3af specification. If the switch does not provide power, a mid-span power injector may be used. (See Figure 2)

Mute Out Connection
The Mute Out may optionally be connected to the mute input of Valcom Classroom audio management systems in order to suspend locally originated classroom audio during intercom announcements.

Call Switch Connection
The Talkback IP Speaker provides a call switch input via screw terminal connections. Connect a momentary contact switch to Switch 1 and Ground.

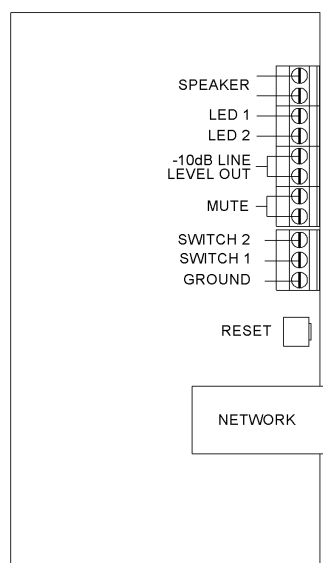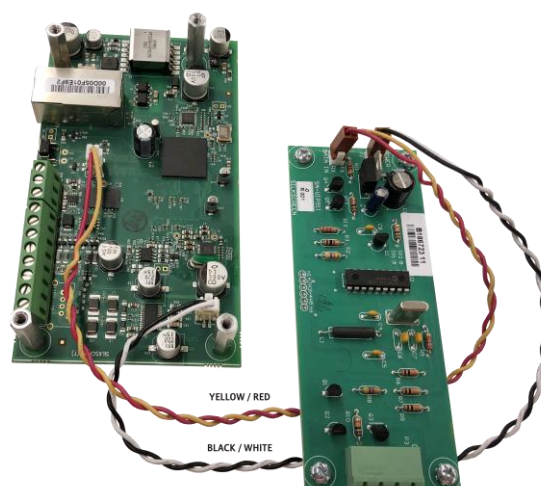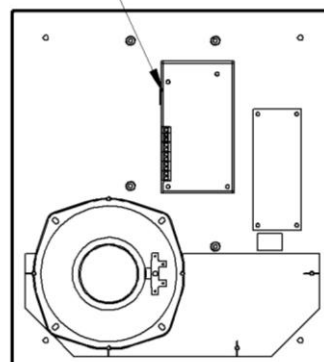**Figure 2. Connections**

-10dB Line Level Out Connection
The -10dB Line Level Out may be connected to up to 40 Valcom Self Amplified Speakers in order to provide additional sound reinforcement in an area.

LED Connection
LED 1 (+) and LED 2 (-) is a current limited output designed to illuminate an optional LED. The LED is intended to provide visual indication of call progress. The LED illumination will flash when the call switch is pressed and will continue to flash until the call is answered. The LED illumination will be solid when a connection to the unit is established.

Setup
The VIP-429A-A-SA will automatically acquire an IP address (using DHCP) and connect to the Syn-Apps server when connected to the network and powered up. Time synchronization is provided by any NTP server. NTP server can be defined in the DHCP scope or manually. Information specific to your application will need to be programmed into the Syn-Apps server. Refer to the Syn-Apps documentation for further information.

TECHNICAL ASSISTANCE
When trouble is reported, verify power is being supplied to the unit and there are no broken connections. If a spare unit is available, substitute a spare unit for the suspected defective unit.

Assistance in troubleshooting is available from the factory. Call (540) 563-2000 and press 1 for Technical Support. When requesting assistance, you should include all available information.

It is strongly suggested that you also review available documentation on http://www.valcom.com/syn-apps.

Valcom equipment is not field repairable. Valcom, Inc. maintains service facilities in Roanoke, VA. Should repairs be necessary, attach a tag to the unit clearly stating your company name, address, phone number, contact person and the nature of the problem. Send the unit to:

Valcom, Inc.
Repair & Return Dept.
5614 Hollins Road
Roanoke, Va. 24019-5056

WARRANTY
Warranty information may be found on our website at www.valcom.com/warranty