

R180/av100 Installation Manual

100 Channel Audio /Video Comb Generator w/ Trunk Switch

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This warranty does not apply to instruments or sub-assemblies subjected to abuse, abnormal operating conditions, or unauthorized repair or modification.

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Return to Factory Policy:

Materials returned to Monroe must have a Return Material Authorization number. To obtain a RMA number, contact our A/V Switching & Control Customer Service at 585-765-2254 or fax 585-765-9330. Customers have 30 days to determine that the product ordered fills their need and performs as described in Monroe's literature. Units returned for approved repair or credit, must be in the original packaging including all parts and paperwork plus be in very good physical condition. If not, the customer is billed the cost to refurbish the unit and for missing accessories and merchandise. No products may be returned for exchange or credit after 12 months of the shipment date. Monroe reserves the right to repair or replace units under warranty.

Product Overview

This new Monroe Electronics R180/av100 Audio/Video Comb Filter Generator offers economical, high quality, full screen replacement for EAS systems.

Approved for small cable systems, the R180/av100 Audio/Video Comb Filter Generator features improved picture quality, and is compatible with all headends. New "Lykinsor" circuitry renders the inherent beats nearly invisible. Adapted for digital cable programming with the guard band (72MHz - 76MHz) baseline noise level greater than 40dB down. No additional filtering is required.

The R180/av100 Audio/Video Comb Filter Generator meets all FCC aeronautical band offset requirements.

Specifications

Audio/Video Audio and Video on all channels 2 through 100 (550+ MHz)

Video Input level: $0.5 \text{ to } 2 \text{ Volts p} \sim p$

Frequency response: $\pm 1 \text{ dB}$, $\pm 1 \text{ dB}$, $\pm 1 \text{ dB}$, $\pm 1 \text{ dB}$

Standard: U.S. System NTSC sync negative Input Type: Clamped video, negative sync

Audio Audio carrier level: -16 dB below video carrier

Automatic Gain Control: 30 dB

FM Deviation: ± 25 KHz automatic Input Level: 0.3 to 3 Volts p ~ p

Frequency Stability: ± 1 KHz

Frequency Response: ± 1 dB 30 Hz to 15 KHz

Adjustable RF Output Control up to 40 dBmV

Trunk Switch

FCC Offset ± 3 KHz in the aeronautical band

Channel Flatness 3 dB

Power Requirements 110 VAC, 30 Watts

Physical Specifications 19" W x 5" H x 13.5" D

Equipment Supplied: Line Cord

Manual Mounting Kit DB9 cable

BNC jumper Cable

Installation

Use with reference to the R180/av100 back panel graphic and installation diagram on the next two pages.

Connect the **EAS CONTROLLER** port on the R180/av100 to the MIP-921e **COMM 1** using the cable provided.

Connect **COMM 2** of the MIP-921e to the CEMS 0500 **EAS DATA** port using the CX506S cable supplied with the CEMS 0500.

Connect **VIDEO OUT** of the CEMS 0500 to **VIDEO LOOP** of the R180/av100. If the video is not looped through to any other equipment, it must be terminated using the supplied termination. To acquire the best possible picture adjust the video level on the back of the R180/av100 with the **VIDEO LEVEL** control.

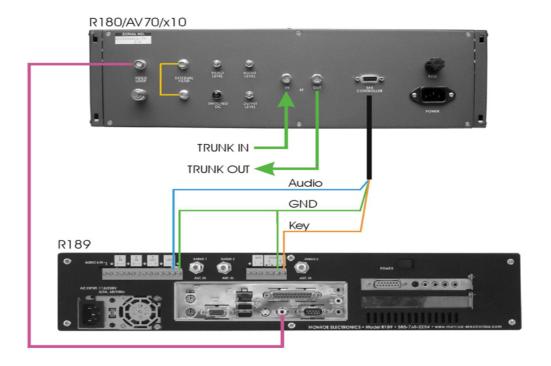
Loop the headend output through the R180/av70 using the RF IN and OUT ports.

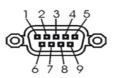
Adjust the output level of the R180/av100 to match the output of the headend using the **OUTPUT LEVEL** control on the rear of the R180/av100. The output level is factory preset to +30 dB. To activate the unit, short pins 5 and 9 of the EAS CONTROLLER port on the back of the R180/av100.

The optional **EXTERNAL FILTER** loop on the back of the R180/av100 can be used for individual external channel blocking filters or data channel trap in the event a local channel elects not to have its signal interrupted by the system.



100 Channel Comb System w/ R189





Pin 1 - Audio Input Pin 5 - Ground Pin 9 - Key

