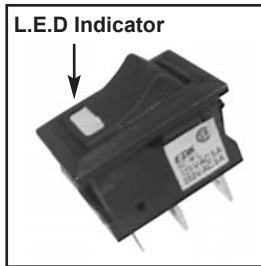


## 40 Series - Rocker & Toggle Switches, ILLuminated Pushbuttons

### SPST ROCKER SWITCHES WITH L.E.D.

(Switch contacts rated 5 AMP-125 VAC) Easy Snap-in mounting. Hole size  $\frac{3}{4}$ " x  $\frac{1}{2}$ ". Dropping resistor required. DC voltage: 6 vdc-270 ohms, 12 vdc-680 ohms, 24 vdc-1.5k.

- 40-710..... Red LED
- 40-711..... Green LED
- 40-712..... Orange LED



### 40-600, SPST 40-601, DPDT TOGGLE SWITCH

SPST bakelite case, bat handle with chrome on/off plate. Solder-type terminals. Rated 3 Amp, 125 volt.

40-600 Size: 1" x  $\frac{9}{16}$ " x  $\frac{1}{8}$ " deep to top of  $\frac{7}{16}$ " bushing.

40-601 Size:  $\frac{1}{8}$ " x  $\frac{3}{4}$ " x  $\frac{1}{4}$ " deep to top of  $\frac{7}{16}$ " bushing.



### 40-635 ILLUMINATED ROCKER SWITCH

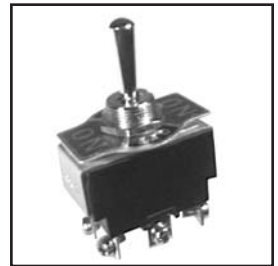
SPST switch. Rated 10 Amp, 125 volt. Neon bulb operates on 117 AC line. Has built-in resistor,  $\frac{1}{4}$ " x  $\frac{5}{8}$ " top dimensions.

40-635A  
12 volt DC version of 40-635.



### 40-602 HEAVY DUTY CENTER-OFF TOGGLE SWITCH

DPDT center-off, rated 6 Amp, 125 volt, bat handle, red and black on/off plate. Screw terminals. Size:  $\frac{5}{16}$ " x  $\frac{3}{4}$ " x  $\frac{3}{8}$ " deep, mounts in  $\frac{7}{16}$ " hole.



### L.E.D. TOGGLE SWITCHES

3 Amp, 125 Vac, attractive, slim, cylindrical handle, with built-in L.E.D indicator light in the tip. Solder-type terminals. Body size:  $\frac{3}{4}$ " x  $\frac{1}{2}$ " x  $\frac{11}{16}$ " deep (including pins). Bushing size:  $\frac{7}{16}$ ". Dropping resistor required. DC voltage: 6 vdc-270 ohms, 12 vdc-680 ohms, 24 vdc-1.5k.

- 40-593..... SPDT Red L.E.D
- 40-594..... SPDT Green L.E.D



### 40-691 HEAVY DUTY TOGGLE SWITCH

SPST 6 Amp, 125 Vac. Body size:  $\frac{1}{8}$ " x  $\frac{5}{8}$ " x  $\frac{7}{8}$ " deep. Screw terminals. Mounts in  $\frac{1}{2}$ " hole.

40-692  
DPDT 6 Amp, 125 Vac. Body size:  $\frac{5}{16}$ " x  $\frac{3}{4}$ " x  $\frac{3}{4}$ ". Screw terminals. Mounts in  $\frac{1}{2}$ " hole.



### HEAVY DUTY 20 AMP (125V) SWITCHES

Mounts in  $\frac{1}{2}$ " hole. Bushing size:  $\frac{15}{32}$ " dia. x  $\frac{3}{8}$ " long. Body size:  $\frac{1}{8}$ " x  $\frac{5}{8}$ " x 1" deep.

- 40-560..... SPST (On-Off)
- 40-561 SPDT (On-Off-On) Center Off



### ILLUMINATED SWITCHES

#### 40-720-A-COLOR

SPDT (On-On)

#### 40-725-A-COLOR

DPDT (On-On)

#### 40-730-A-COLOR

SPDT Momentary

#### 40-735-A-COLOR

DPDT Momentary

### Incandescent Bulbs

Sold Separately

40-715..... 6 Volt

40-716..... 12 Volts

40-717..... 28 Volts

These re-designed switches come in five color options with 3 different bulb voltages to chose from. Comes with a square lens and diffuser. 1 Amp @250Vac or 3 Amps @125Vac, insulation resistance: 500Vdc, Voltage breakdown 1500Vac @ 1 minute, Contact resistance: 20mΩ (max). **Please note lens color when ordering. Lens colors: Blue (BU), Green (GN), Red (RD), White (WH), Yellow (YL)**

Please Note  
Color  
Abbreviation  
When  
Ordering



Mounting Hole Size .61"

### HEAVY DUTY 20 AMP (125V) SWITCHES

Mounts in  $\frac{1}{2}$ " hole. Bushing size:  $\frac{15}{32}$ " dia x  $\frac{3}{8}$ " long. Body size:  $\frac{5}{16}$ " x  $\frac{3}{4}$ " x 1" deep.

- 40-562 ..... DPDT (On-On)
- 40-563 DPDT (On-Off-On) Center Off



Mounting Hole Size .61"

### HEAVY DUTY TOGGLE SWITCHES

Fast snap action toggles. Extremely smooth operation. Flat chrome handle. Rate 6 Amps, 250 volts. Silver contacts. Specify type. Both mount in  $\frac{1}{2}$ " hole. Bushing size:  $\frac{15}{32}$ " dia x  $\frac{3}{8}$ " long.

- 40-605 ..... SPDT  $\frac{1}{8}$ " X  $\frac{5}{8}$ " X  $\frac{13}{16}$ "
- 40-606 ..... DPDT  $\frac{1}{8}$ " X  $\frac{3}{4}$ " X  $\frac{13}{16}$ "



# CALRAD

## 40 Series -Toggle Switches

### MINIATURE FLAT TOGGLE SWITCH SERIES

Specially designed for decorative appearance with ease in smooth switching operation in mind. Specify part number.

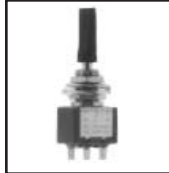
#### Specifications

Contact rating: 6 Amp-125 Vac, 3 Amp-250 Vac.

Bushing:  $\frac{1}{4}$ ". Thread length:  $\frac{5}{16}$ ".

All necessary mounting hardware included.

**40-580**..... SPDT, On-On  
**40-581**.....SPDT, On-On Momentary  
**40-582**.....SPDT, On-Off-On  
**40-583**.....SPDT, On-Off-On, Mom.  
**40-584**.....SPDT,-On-Off-On, Mom.  
 Body Size 40-580 thru 40-584:  
 $\frac{1}{2}$ " x  $\frac{5}{16}$ " x  $\frac{1}{2}$ " deep including terminals



**40-585**.....DPDT, On-On  
**40-586**.....DPDT, On-On Momentary  
**40-587**.....DPDT, On-Off-On  
**40-588**.....DPDT, On-Off-On Mom.  
**40-589**.....DPDT, On-Off-On Mom.  
 Body Size 40-585 thru 40-589:  
 $\frac{1}{2}$ " x  $\frac{1}{2}$ " x  $\frac{1}{2}$ " deep including terminals.



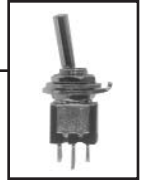
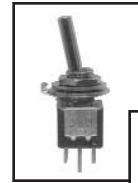
### ULTRA SMALL SUB-MINIATURE TOGGLE SWITCHES

3 Amp, 125 Vac. Chrome handle with red tip for eye-catching indication.

$\frac{3}{16}$ " dia. Bushing:  $\frac{7}{32}$ " long.

**40-608** SPDT-ON/ON  
 body size:  $\frac{5}{16}$ " x  $\frac{3}{16}$ " x  $\frac{1}{2}$ " deep including terminals

**40-609** DPDT-ON/ON  
 body size:  $\frac{11}{32}$ " x  $\frac{5}{16}$ " x  $\frac{1}{2}$ " deep including terminals



### MINIATURE CIRCUIT BOARD MOUNTING SWITCHES

Vertical mounting -  $\frac{5}{16}$ " long threaded bushing. Contact rating 6 Amp, 125 Vac. All mount in  $\frac{1}{4}$ " hole.

**40-510**..... SPDT On-On

**40-511**..... SPDT On-Off-On

Size:  $\frac{1}{2}$ " x  $\frac{5}{16}$ " x  $\frac{7}{8}$ " deep including terminals

**40-512**..... DPDT On-On

**40-513**..... DPDT On-Off-On

Size:  $\frac{1}{2}$ " x  $\frac{1}{2}$ " x  $\frac{7}{8}$ " deep including terminals



### MINIATURE CIRCUIT BOARD MOUNTING SWITCHES

Right angle mounting -  $\frac{5}{16}$ " long threaded bushing. Contact rating 6 Amp, 125 Vac. All mount in  $\frac{1}{4}$ " hole.

**40-502**..... DPDT On-On

**40-503**..... DPDT On-Off-On

Body Size:  $\frac{1}{2}$ " x  $\frac{1}{2}$ " x  $\frac{3}{4}$ " deep including terminals



### MINIATURE ECONOMY TOGGLE SWITCHES W/ SILVER PLATED CONTACTS

3A-125 Vac, mounts in  $\frac{1}{4}$ " hole size, solder terminals.  $\frac{5}{16}$ " long threaded bushing.

**40-566**..... SPDT On-On

**40-567**..... SPDT On-Off-On

Size:  $\frac{1}{2}$ " x  $\frac{5}{16}$ " x  $\frac{9}{16}$ " deep including terminals

**40-568**..... DPDT On-On

**40-569**..... DPDT On-Off-On

Size:  $\frac{1}{2}$ " x  $\frac{1}{2}$ " x  $\frac{9}{16}$ " deep including terminals



### MINIATURE CIRCUIT BOARD MOUNTING SWITCHES

Printed circuit mounting -  $\frac{5}{16}$ " long threaded bushing. Contact rating 6 Amp, 125 Vac. All mount in  $\frac{1}{4}$ " hole.

**40-521**..... SPDT On-Off-On

Body Size:  $\frac{1}{2}$ " x  $\frac{5}{16}$ " x  $\frac{5}{16}$ " deep including terminals

**40-523**..... DPDT On-Off-On

Body Size:  $\frac{1}{2}$ " x  $\frac{1}{2}$ " x  $\frac{5}{16}$ " deep including terminals



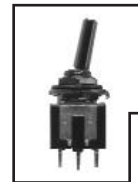
### SUB-MINIATURE TOGGLE SWITCHES

Extra small in size, chrome handles with red tip for quick eye-catching indication, 3 Amp, 125 Vac.

**40-613** SPDT-ON/ON  
 size:  $\frac{7}{16}$ " x  $\frac{1}{4}$ " x  $\frac{9}{16}$ " deep including terminals

**40-614** DPDT-ON/ON  
 size:  $\frac{7}{16}$ " x  $\frac{7}{16}$ " x  $\frac{9}{16}$ " deep including terminals

Bushing:  $\frac{1}{4}$ " dia x  $\frac{1}{4}$ " long.



### SUB-MINIATURE TOGGLE SWITCHES

**40-610** SPDT-ON/ON, 10 Amp, 125 volt (non-inductive load), solder-type terminals. Body size:  $\frac{5}{16}$ " x  $\frac{1}{2}$ " x  $\frac{9}{16}$ ".

**40-611** DPDT, 10 amp, 125 volt (non-inductive load), solder-type terminals. Body size:  $\frac{1}{2}$ " x  $\frac{1}{2}$ " x  $\frac{1}{2}$ ".

**40-612** DPDT, center-off. Contact 5 Amp, 125 volt current cap. AC (non-inductive load). Body size:  $\frac{1}{2}$ " x  $\frac{1}{2}$ " x  $\frac{1}{2}$ ".



### SUB-MINIATURE TOGGLE SWITCH

6 Amp, 125 Vac,  $\frac{1}{4}$ " mounting hole.  $\frac{5}{16}$ " thread length.

**40-699** 3PDT-ON/ON

body size  $\frac{3}{4}$ " x  $\frac{1}{2}$ " x  $\frac{5}{8}$ "

**40-700** 4PDT-ON/ON

body size  $\frac{7}{8}$ " x  $\frac{1}{2}$ " x  $\frac{9}{16}$ "



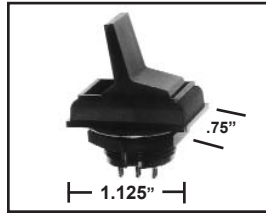
## 40 Series - Lever, Rocker, Slide, Pushbutton Switches

### LEVER SWITCHES

6 Amp, 125 Vac, mounts in  $\frac{3}{4}$ " round hole. Lever color is red. Lever height is .99"

40-705 ..... DPDT-ON/ON

40-706 ..... SPDT-ON/ON

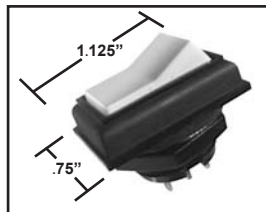


### ROCKER SWITCHES

6 Amp, 125 Vac, mounts in  $\frac{3}{4}$ " round hole. Rocker color is white. Size is .7"

40-707 ..... SPDT-ON/ON

40-708 ..... DPDT-ON/ON



### 40-630 SPST

#### ROCKER SWITCH

Molded plastic, encased with mounting flanges.

Mounting centers:  $1\frac{3}{16}$ "

Size:  $1\frac{3}{16}$ " x  $\frac{1}{2}$ " x  $\frac{7}{8}$ ".

Rating: 3 amps, 125 volts AC.



### 40-632 SPDT-ON/ON

#### ROCKER SWITCH

Molded plastic, encased with mounting flanges.

Mounting centers :  $1\frac{3}{8}$ "

Size:  $1\frac{11}{16}$ " x  $\frac{5}{8}$ " x  $1\frac{1}{16}$ ". Rating:

3 amps, 125 volts AC.



### ROCKER SWITCHES

6 Amp, 125 Vac, mounts in  $\frac{3}{4}$ " round hole. Color is black.

40-687 ..... DPDT-ON/ON

40-690 ..... SPDT-ON/ON



### 40-620

#### SLIDE SWITCH

DPDT, positive action.

Size  $1\frac{3}{8}$ " x  $\frac{1}{2}$ ".

Mounting centers:  $1\frac{1}{8}$ ".

Rated 0.5 Amp, 125 volt.

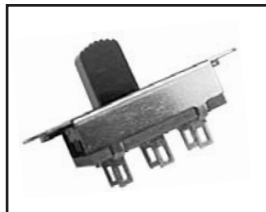
Color is black.



### 40-621

#### CENTER-OFF SLIDE SWITCH

Same as the 40-620 except for center-off position. Color is black.

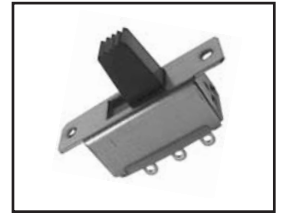


### MINI SLIDE SWITCHES

Used where small size is necessary. Rated 0.25 Amp, 125 volt. Size:  $\frac{5}{16}$ " x  $\frac{3}{8}$ " x  $\frac{3}{8}$ " deep including terminals.

40-622 ... SPDT Mtg. Centers  $\frac{11}{16}$ "

40-623 ..... DPDT Mtg. Centers  $\frac{3}{4}$ "



### HEAVY DUTY CHROME PUSHBUTTON SWITCH PUSH ON/PUSH OFF

10 Amp, 125 Vac.

Mounting hole size:  $\frac{15}{32}$ "

Thread length:  $\frac{1}{2}$ "

40-595 ..... SPDT  $1\frac{1}{8}$ " x  $\frac{5}{8}$ " x  $\frac{3}{4}$ "

40-596 .... DPDT  $1\frac{1}{8}$ " x  $\frac{3}{4}$ " x  $\frac{7}{8}$ "



### 40-615 / 40-615-W (white cap)

#### SPDT MINIATURE

#### PUSHBUTTON SWITCH

Push-on/push-off, 3 Amp, 125 Vac.

Hole size  $\frac{1}{4}$ ". Body Size  $\frac{1}{4}$ " x  $\frac{15}{32}$ " x

$\frac{7}{8}$ " L - including terminals. Body color is green, button color available in

black or white.



### 40-616

#### DPDT MINIATURE

#### PUSHBUTTON SWITCH

Same as 40-615.

$\frac{7}{16}$ " x  $\frac{7}{16}$ " x  $\frac{7}{8}$ " L - including

terminal. Body color is green,

button color is black.



### 40-626

#### SUB-MINIATURE

#### MOMENTARY SWITCH

#### SPST PUSH TO MAKE

0.5 Amp, 125 Vac. Fits  $\frac{3}{16}$ " hole,

$\frac{1}{4}$ " dia, length  $\frac{13}{16}$ " overall. Button

color is black.



### HEAVY DUTY

#### PUSHBUTTON SWITCH

SPST momentary, push to make.

Rated 3 Amp, 125 volt. Specify

color. Hole size:  $\frac{5}{8}$ ".

40-627 ... Black

40-628 ..... Red

40-629 ... Green



### MINIATURE PUSHBUTTON SWITCH

SPST momentary, ideal for panel mounting. Rated 1 Amp, 125 volt,  $1\frac{1}{8}$ " overall length, diameter  $\frac{7}{16}$ ", fits  $\frac{1}{4}$ " hole.

40-636 ..... Push to Break, Black

40-637 ... Push to Make, Red, Japan

40-637-S Same as 40-637 but from Taiwan



# CALRAD

## 40 Series - Pushbutton Switches & Relays

### 40-685, 40-686 SPST RECESSED MOMENTARY SWITCHES

Push-on or push-off momentary contact switches with rings to help prevent accidental triggering. 1 Amp, 125 Vac. Hole size:  $\frac{1}{2}$ ".

Specify model number.

40-685.....Push-off -- Black

40-686.....Push-on -- Red



### MOMENTARY PUSHBUTTON SWITCHES

Rated 3 Amp, 250 Vac. Bushing:  $\frac{7}{16}$ ". Hole size:  $\frac{1}{2}$ ".

40-688 .....SPST Push-on—Red

40-689 .SPST Push-on—Cream



### SPDT MOMENTARY PUSH TO MAKE OR BREAK

Rated 3 Amp, 125 Vac. Mounting hole:  $\frac{1}{4}$ ". Body size:  $\frac{7}{16}$ " X  $\frac{7}{16}$ " X  $\frac{11}{16}$ ". Normally open or normally closed.

40-693..... Red

40-694 ..... Black



### 40-697 SPST MOMENTARY PUSH TO MAKE

1 Amp, 125 Vac. Overall length:  $1\frac{1}{8}$ ". Mounting hole:  $\frac{1}{4}$ ". Button color is black.



### 40-625 INLINE PUSH BUTTON SWITCH

Red N/O momentary push button switch mounted in a silver XLR housing. Operating voltage 125Vac, 3Amp max. current. Accepts up to .30" cable.



### 40-698 SPST MOMENTARY PUSH TO MAKE

1 Amp, 125 Vac. Mounting hole:  $\frac{1}{2}$ ". Overall length:  $\frac{3}{4}$ ".



### 40-565 MICRO-MINIATURE PUSHBUTTON KEYBOARD SWITCH

Rating..... 50 mA at 12 Vdc

Contact resistance ..... 100 MΩ

Max.

Voltage breakdown ..... 100

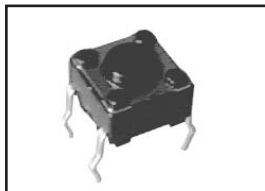
Vac/minute

Life expectancy ..... 100,000

cycles

Dimensions .....  $\frac{1}{4}$ " X  $\frac{1}{4}$ " X  $\frac{5}{16}$ "

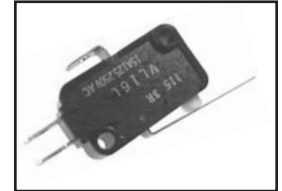
Deep



### 40-634 SPDT MICRO LEVER SWITCH

Leaf-type, normally open or normally closed momentary contact.  $\frac{1}{2}$  Amp, 125 Vdc; 5 Amps,  $\frac{1}{8}$  h.p., 125 or 250 Vac.

Body size:  $1\frac{1}{8}$ " X  $\frac{5}{8}$ " X  $\frac{3}{8}$ " not including contacts.



### 40-651 FOOT SWITCH

Push to make, can be reversed. Used for remote operation. Metal case has slip-proof bottom, 60-inch lead, has  $\frac{1}{4}$ " plug. Size:  $3\frac{1}{8}$ " X  $3\frac{3}{8}$ " X 1". Ratings: 0.5 amp, 125 volts AC.



### 40-678 12 VOLT DC SPDT RELAY

DC resistance 5K. Current 1.5 mA. Contact Rating: 500 mA.



### SPDT MINIATURE RELAYS

Sensitive, lightweight, fully encased. Pin type terminal leads for easy connection on printed circuit boards. 3 Amp contacts.

Size:  $\frac{5}{8}$ " X  $\frac{3}{4}$ " X  $\frac{29}{32}$ ".

Specify model number.

#### 40-674

6Vdc SPDT, DC resistance 100 ohms, current 60dc mA

#### 40-675

12Vdc SPDT, DC resistance 350 ohms, current 34 mA



### DPDT MINIATURE DIP STYLE RELAYS

40-760 5Vdc - 3.6 Vdc Min, DC

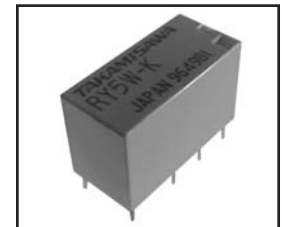
Resistance 167 ohms

40-761 12Vdc - 8.5 Vdc Min, DC

resistance 388 ohms

40-762 24Vdc - 16.8 Vdc Min, DC

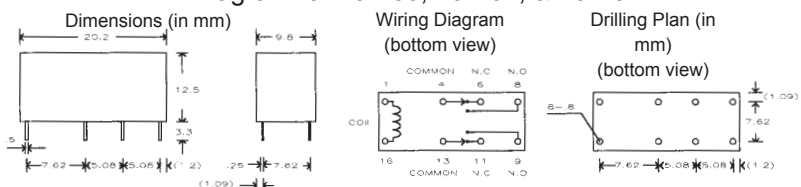
Resistance 960 ohms



Small and perfect for low signals in audio, computer, telcom, and security products. Fully sealed construction.

Contact rating (resistive) .5A 120Vac, 1Amp, 24 Vdc, .3Amp, 60 Vdc

### Diagram for 40-760, 40-761, & 40-762



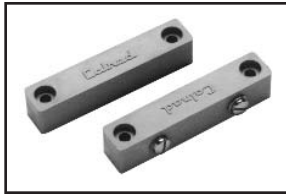
# CALRAD

## 40 Series - Security Switches

### MAGNETIC CONTACT SWITCHES

Versatile, used in many alarms sensing for window and door protection. Specify either normally open or normally closed. Mounting center: 2 1/8" 130V max. 50 mA or 10 watts. Up to .5 Amp max.

- 40-656..... Normally Closed
- 40-657 ..... Normally Open  
(Both with magnet in place.)



### 40-756 STUBBY RECESSED CONTACT

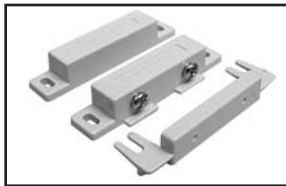
5/8" long switch for tight installations. Normally closed with magnet in place. Available in off white only. 3/8" operating gap. Rating 100mA-100 Vdc max., 1 amp-10 Vdc. Contact length is .78". Wire length is 17".



### SURFACE MOUNT CONTACTS

Includes terminal cover. 3/4" operating gap, Available in white only. Rated 100mA - 100 Vdc max.

- 40-750..... Normally Closed
- 40-751..... Normally Open  
(Both with magnet in place.)



### 40-755 3/8" RECESSED CONTACT

Switch/magnet case with ribs for securing in holes, 1" operating gap. Closed circuit with magnet in place. Available in white only. Rating 100mA-100 Vdc, 1 Amp-10 Vdc. Contact length is 1.32". Wire length is 15".



### 40-752 WIDE GAP SURFACE MOUNT CONTACT

Used for loose fitting doors and windows. 2 3/4" operating gap. Includes spacers. Normally closed with magnet in place. Color is gray. Rated 100mA-100 Vdc max.



### 40-655 WATER SENSING CONTACT SWITCH

Operates as a normal contact switch in an alarm system. When it senses water (or any conductive liquid) it acts as a magnetic contact. N/O contact.



### SELF-ADHESIVE CONTACTS

Alarm switches for window and door protection, with 12" wire leads. 1 1/2" length, 3/8" Wide. 0.5 amp, 125VDC. Rated 100ma-100v max., 1 amp-10Vdc max., 10 watts max. Self-adhesive and screw mount.

- 40-665 Closed Circuit w/ magnet in place
- 40-666 Open Circuit w/ magnet in place



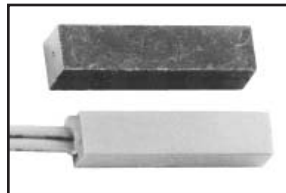
### 40-759 MERCURY MOTION SENSING SWITCH

Switch cycle:100,000 at 12 Vdc, 0.5 A. Ratings: 1.5-12 Vdc., 3 Amps.15" switch gradient. 2"(L) x 3/8"(W) x 3/8"(H). 15" leads. 1.57" mounting centers. Brown color.



### 40-753-WH SURFACE MOUNT CONTACT

15" prewired leads. Foam tape mounting. Closed circuit with magnet in place. Available in white only.



### 40-668 MAGNETIC FLOOR SWITCH

Extra wide gap. Magnetic contacts embedded in solid aluminum block. Switch wires protected in a flexible steel jacket.Size: 5/8" x 1/4" x 3 1/2"L. Normally closed with magnet in place.2 1/2" operating distance. Alnico magnet. UL approved. Rating 100mA-100Vdc max., 1 Amp-10Vdc max., 10 watts max.



### RECESSED MAGNETIC SWITCH

Complete concealment, positive action, easy to install, recesses into 3/8" hole. 0.5 Amp - 125V. Rated 130 Vdc-30mA. Contact length is 1.19". Wire length is 11".

- 40-660..... Normally Closed (white wire) .75" gap
- 40-661 ..... Normally Open (green wire) .5" gap  
Both with magnet in place.



### 40-658 OVERHEAD DOOR CONTACT

Heavy duty, wide gap, 24" wire leads enclosed in stainless steel cable. Closed circuit with magnet in place. 1 Amp - 125V, 130Vdc - 50mA contact rating. Contact size is 3.47" long x 1.27" wide. Wire length is 17".



### 40-659 FLUSH MOUNT CONTACT

SPST normally closed with magnet in place. Circuit opens when magnet is removed. Recesses into 1/4" hole. Alnico magnet. 15" leads. Rating 100mA-100 Vdc, 1 Amp-10 Vdc, 10 watts max.

**No mounting brackets included**



### 40-757 RECESSED PLUGGER SWITCH

N/C switch (ivory) with slotted screw terminals and mounting hardware. Mounts in a 3/4" hole. Button protrudes 5/16", button diameter is 3/8". Mounting centers 1 1/4". Plastic body construction. Current rating .74Amps @ 125Vac.



\* Please note that Calrad's magnetic switches are for use with alarm Systems only and not voltage type circuits that exceed the contact ratings, doing so may cause the reed switch to arc closed and become defective.

# CALRAD

## 40 Series - Security Switches

### 40-664

#### VIBRATION SWITCH

Shock switch for protection of window glass, walls, showcase, etc. Normally closed circuit. Size: 2 $\frac{3}{8}$ "(L) x 7 $\frac{1}{8}$ "(W) x 9 $\frac{1}{16}$ "(H). Contact rating .5 Amp at 25 Vdc max.



### 40-667 RECESSED PLUNGER SWITCH

Positive action, easy to install, tapered body for tight fit, mounts in 3/8" hole. Normally closed circuit. Adjustable plunger.

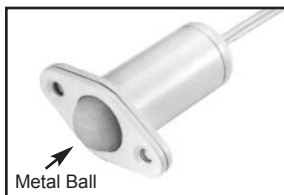


### BALL PLUNGER

Completely environmental proof for window, door protection, etc. Mounts in 3/4" hole. Mounting centers 1 3/16". 15" leads. Rating 100mA-100 Vdc max., 1 Amp-10 Vdc max., 10 watts max.

40-670..... Normally Closed

40-671 .. Normally Open and Normally Closed contacts (Both with ball depressed.)



### 40-654

#### TAMPER SWITCH

SPST momentary contact. Use in conjunction with most security devices. Normally closed (with plunger depressed). Contact rating .5 Amp-50 Vdc. Size is 1.84" long x 1.09" wide.



### 40-652 HOLD-UP UNIT

Double button operation virtually eliminates accidental triggering. Sturdy metal case, silver plated SPST contacts. Prewired for quick installation. Color beige, contacts rated for 1 Amp @25Vdc. Size is 1.99"(W) x .99"(H) x 1.74"(D)



### 40-758 SURFACE MOUNT TOGGLE SWITCH

SPST toggle switch mounted in a white impact housing. Mounting centers 2.125". Overall height 2", 6" black flying leads, stripped. Chrome switch position ID label ON/OFF. Current rating 3Amps @125Vac, 50Vdc.



### 40-650 EMERGENCY PANIC SWITCH

3" long, 7/8" wide, 2 $\frac{5}{8}$ " mounting centers. Normally open circuit. Screw terminals on the rear of switch for connection.

### 40-650A

Same as 40-650 only with normally open and closed options available



### 40-673

#### PLASTIC NYLON HOLDER

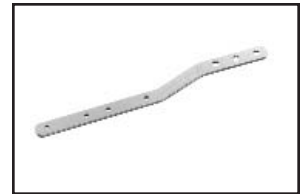
Used for recessed mounting of contacts and magnets on steel doors. Holds magnet or contact in place away from frame. For use with our 40-659 contact, magnet. Hole size 3/4". Color is grey.



### 40-672

#### ALUMINUM Z-BRACKET

Needed for extending magnet greater distances when uneven surfaces exist. Used for 40-750, 751, 752. Over-all length is 8". Long tongue is 5.75" and short tongue is 2.5".



### 40-663A SPST DOUBLE SIDED KEY SWITCHES

Sometimes called a shunt lock. Complete with 2 keys and mounting hardware. Hook up using screw terminals. Used with most alarm equipment and with all Calrad Alarm Modules. 125Vac, 4Amp. 250Vac, 2A. Mounts in 1.8" deep hole. Bushing length to connectors 1.8", Mounts in .75" hole



### ROUND HIGH SECURITY KEYLOCK SWITCHES

Mounts in 3/4" hole. 1 $\frac{1}{16}$ " deep. 3 Amp - 125V.

40-682 .....SPST Momentary, Spring Return  
40-683 ..... SPST Shunt On/Off Solder Terminals



### 40-768 3/8" STUBBY RECESSED CONTACT WITH SCREW TERMINALS

5/8" long switch for tight installations with short mounting areas. Switch/magnet case with ribs for securing in holes, 5/16" operating gap. Closed circuit with magnet in place. Available in white only. 100mA 100Vdc max., 1A 10Vdc. Contact length is .78".



### 40-769 3/8" RECESSED CONTACT WITH SCREW TERMINALS

Switch/magnet case with ribs for securing in holes, 5/8" operating gap. Closed circuit with magnet in place. Available in white only. 100mA 100Vdc max., 1Amp 10Vdc. Contact length is 1.32".



## 40 Series - Distribution Amplifiers, Switchers & Converters

ARE YOU READY FOR HDTV!!



### AUDIO VIDEO DISTRIBUTION AMPLIFIERS

These amplifiers offer the perfect solution for multi-TV displays, security camera feeds and home theater applications. You'll find that Calrad offers a variety of distribution amplifiers to meet the needs of today's HDTV multi-component/display environments. We offer distribution amplifiers in SVHS, Composite RCA or BNC, Component RGB, as well as SVGA. With configurations of 1 input to 2, 4, 8 or 16 isolated and buffed outputs. These are offered in either audio, video, or audio & video options. If you have any questions please call your Calrad representative.

### AUDIO VIDEO MATRIX SWITCHERS

Matrix switchers route multiple audio/video sources to multiple audio/video destinations. These switchers let audio/video signals from a range of input sources, such as DVD players, VCRs etc. be displayed on multiple output sources. Our matrix switchers support most of today's A/V formats, like Composite, S-Video, Component Video as well as Digital Audio. These units can accommodate multiple signal types but signals must be routed to the same style outputs, ie. S-Video in must go to S-Video out. We offer these in a number of different input/output configurations. These are also offered with infra-red remote control or manual switching options. They are also available in either table-top or rack mountable units.

### AUDIO VIDEO CONVERTERS & SCALERS

Calrad video converters use the most current conversion technology components and semiconductors available to achieve the most reliable and stable signal conversions possible. Signal converters/scalers may consist of active and passive devices. Some converters will scale a signal from one resolution to another while other units will simply allow one format to work with a different format, for example Calrad's 35-499 series converters provide a solution in order to convert a SVHS signal to a composite signal and vice versa, where our 40-811 will scale a computer signal resolution to a 525 line NTSC composite/S-Video format or scale a NTSC composite signal to a computer monitor resolution. As different technologies emerge Calrad will continue to develop and provide solutions to solve these complex issues.

# CALRAD

## 40 Series - Audio\Video Selectors

### 40-640 AUDIO SELECTOR

An audio selector connecting to a total of four sets of CD-DVD players, VCRs, cassette decks, etc. By changing front panel switches, one audio source among others can be selected. RCA jacks on rear panel.



Size: 8"W x 2.25"H x 4"D

### 40-642 STEREO SPEAKER SELECTOR

Selects up to four pairs of speakers for one amplifier. 60 watts maximum. Push terminals on rear panel.



Size: 8"W x 2.25"H x 4"D

### 40-641 AUDIO/VIDEO SELECTOR

A stereo type audio/video selector, connecting a total of four sets of video decks and video disk players to one television set. Therefore enabling the viewer to select the screen of his choice on one television. 75 ohm term. - 30 db isolation. RCA jacks on rear panel.



Size: 8"W x 2.25"H x 4"D

### 40-644 STEREO 2 WAY AUDIO INPUT SELECTOR (A+B)

Enables 2 audio inputs to be switched to 1 output. Slim metal chassis with black finish. Mounts with velcro, included or double stick tape. 2 L+R inputs, female RCA jacks. Output cable with L+R male RCA plugs, 5' long.



Size: 3"W x 1"H x 2.9"D

### 40-645 STEREO SPEAKER SELECTOR

Selects up to six pairs of speakers and has an AMP switch (A+B) which switches between two separate amplifiers for different signal feeds. Uses load impedance matching transformers. Heavy duty push to connect terminals for 8-22 gauge wire on rear panel. 180 watt power handling capacity. Output per location of 25-30 watts.



Size: 13.8"W x 2.75"H x 5.9"D

	number of speakers playing						impedance correction		number of speakers playing						impedance correction
	1	2	3	4	5	6			1	2	3	4	5	6	
4Ω speakers	4Ω	x	x	x	x	x	24.0Ω	8Ω speakers	8Ω	x	x	x	x	x	42.0Ω
	4Ω	4Ω	x	x	x	x	12.0Ω		8Ω	8Ω	x	x	x	x	21.0Ω
	4Ω	4Ω	4Ω	x	x	x	8.1Ω		8Ω	8Ω	8Ω	x	x	x	14.0Ω
	4Ω	4Ω	4Ω	4Ω	x	x	6.1Ω		8Ω	8Ω	8Ω	8Ω	x	x	11.0Ω
	4Ω	4Ω	4Ω	4Ω	4Ω	x	4.9Ω		8Ω	8Ω	8Ω	8Ω	8Ω	x	8.5Ω
	4Ω	4Ω	4Ω	4Ω	4Ω	4Ω	4.1Ω		8Ω	8Ω	8Ω	8Ω	8Ω	8Ω	7.2Ω

### 40-850VC (4 channel), 40-851VC (6 channel) 4 AND 6 CHANNEL AUTOFORMER BASED STEREO SPEAKER SELECTOR WITH VOLUME CONTROLS

Rating per channel 100W, RMS continuous selectable A/B amplifier input. Multiple-position volume control: 10 position switch - max attenuation 42dB heavy duty. Push type connectors accept up to 12 awg. cable. Independent channel grounds for safe connection to all amplifiers (including bridged or floating ground). Load impedance resistors for amplifier protection. Size: 17"(W) x 3"(H) x 8"(D) front to back including knobs and terminal. Weight 12.5 lbs. Chassis color is black.



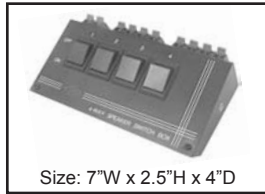


## 40 - Series A/V, RF Selectors & Switch-Boxes

### RF SWITCHERS A + B & A + B + C

#### 40-647 FOUR POSITION STEREO SPEAKER SWITCH

Designed to switch 4 pairs of stereo speakers from 1 amplifier. Heavy duty rocker switches. Push-style terminals accept up to 14 gauge cable. Black steel cabinet with white labeling. Rated at 120 watts.



Size: 7"W x 2.5"H x 4"D

#### 40-648 FIVE POSITION RCA AUDIO STEREO SWITCHER

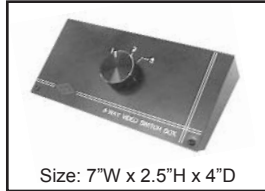
5 inputs to 1 output device. When more audio inputs are needed for a receiver/amplifier, provides switching for CD players, tape decks, tuners, VCR's, etc. Black steel cabinet with white labeling.



Size: 7"W x 2.5"H x 4"D

#### 40-649 THREE POSITION RCA VIDEO/STEREO AUDIO SWITCHER

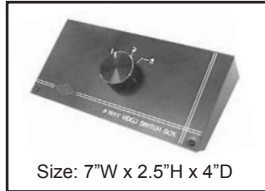
3 position rotary switch selects between 3 audio/video input signals and sends them to 1 output device. Black steel cabinet with white labeling.



Size: 7"W x 2.5"H x 4"D

#### 40-814 3-INPUT PASSIVE COMPONENT VIDEO SELECTOR

3 inputs to 1 output. Switches PR, PB, Y signals. RCA female jacks. 30 MHz bandwidth. Break before make switching. Shielded steel cabinet, finished in black with white lettering.



Size: 7"W x 2.5"H x 4"D

#### 40-815 REMOTE CONTROLLED, 3 INPUT ANALOG AND DIGITAL AUDIO VIDEO SWITCHER

Expand the capacity of your audio/video inputs. This unit allows the connection of up to 3 toslink optical or stereo RCA audio, SVHS or composite video components to your television or home theater system. Easy to use front panel buttons for input switching. Comes with power supply and slim style remote control. Chassis color is black



Size: 9.5"W x 4.1"D x 1.75"H



Rear View

#### 40-813 4 INPUT A/V SVHS & COMPOSITE SWITCHER

Used to switch 4 SVHS, composite video and L+R audio input signals to 1 output. Allows you to switch between DVD, VCR, camcorder, Gameboy™ or any other A/V device. Front panel 3.5mm headphone monitoring jack.

##### Specifications

##### SVHS (Y/C)

Y, luminance input level..... 1Vpp +/- 10%  
 Input impedance..... 75Ω  
 Through loss..... < 5%  
 C, chrominance input level ..... 1Vpp +/- 10%  
 Input impedance..... 75Ω

SVHS connectors . 4 pins with black inserts  
 Signal distortion audio < 0.6dB (standard ± 3dB)

##### Composite Video

Video level..... 1Vpp +/- 10%  
 Input impedance ..... 75Ω  
 Through loss..... < 5%  
 Color..... Dark gray  
 Video connector RCA connectors with yellow inserts

#### 40-695 SLIM STYLE A/B COAXIAL PUSHBUTTON RF SWITCH

High isolation RF A/B pushbutton switch. Complies with FCC part 15.6. 75 ohm RF "F" female connectors. Lets you select from two inputs. Reversible. 80dB isolation. Frequency 5-900 MHz



Size: 3"W x 1.16"H x 1.91"D

#### 40-695A A/B COAXIAL PUSHBUTTON RF SWITCH

High isolation RF A/B pushbutton switch. Complies with FCC part 15.6. 75 ohm RF "F" female connectors. Lets you select from two inputs. Reversible. 80dB isolation. Frequency 5-900 MHz



Size: 4"W x 2"H x 1"D

#### 75-496 A/B COAXIAL RF SWITCH

RF A/B push button switch. Complies with FCC part 15.6. 75 ohm RF "F" female connectors. Lets you select from two inputs. Reversible. 40dB isolation. Frequency 5-900 MHz



Size: 2.1"W x 1"H x 2.25"D

#### 40-696 A/B/C COAXIAL PUSHBUTTON RF SWITCHER

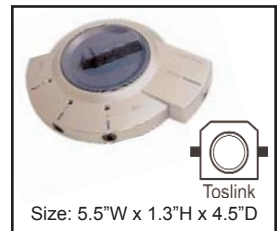
High isolation RF A/B/C pushbutton switch. Complies with FCC part 15.6. 75 ohm RF "F" female connectors. Lets you select from three inputs. Reversible. 90dB isolation. Frequency 5-900 MHz



Size: 3"W x 1"H x 3"D

#### 35-439 THREE WAY TOSLINK OPTICAL SWITCH

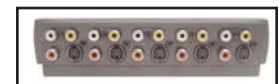
Passive 3-way toslink optical switch. Passive selection knob with a spring loaded lock mechanism and selection indicator. Bi-directional switching.



Size: 5.5"W x 1.3"H x 4.5"D



Size: 7.25"W x 1.75"H x 2.5"D



Rear View

# CALRAD

## 40 Series - A/V Distribution Amplifiers

**New Item**

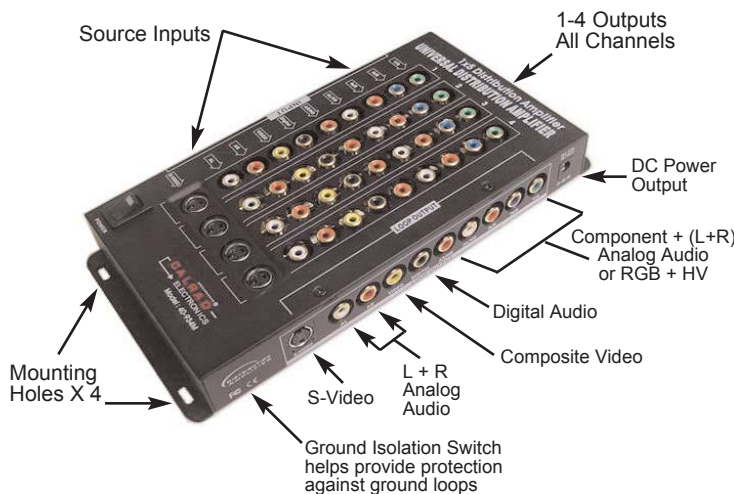
\*\*\*Rack mountable ears are available for select products. Contact Calrad for details: 323-465-2131\*\*\*

### 40-934M, 500 MHz Version

### 40-931M, 1 GHz Version

### 1 X 5 CASCADING HDTV DISTRIBUTION AMPLIFIER

Calrad's 40-934M, State of the Art distribution amplifier delivers signals for High Definition and Standard definition Analog Audio and Video formats as well as digital audio. Precise components and circuit design provide signal delivery up to 10 units cascaded using high quality, low loss cables designed for HDTV signals, for distances up to 300 feet. Drives Plasma, LCD, DLP and Computer monitors for multiple display applications. The 40-934M has the ability to distribute 4 different video formats (Component Video, Pr, Pb, Y), (RGB+HV), (Composite, S-Video) providing the flexibility to work in any consumer analog video signal environment. High frequency, fast slew rate op-amps using Calrad's unique 75 Ohm termination circuitry, provides low noise and distortion free video without any appreciable signal degradation. High quality connectors for repeat removal and insertion of cables will provide many years of trouble free operation. This unit may be used free-standing or vertically by using the four slotted chassis mounting holes. Easy access front panel style rocker power switch with L.E.D. power on indicator. AC adapter included.



### Specifications:

#### Video

Component / RGB Bandwidth .....500MHz  
 Component / RGB Cascade Input to Output Unity-gain X 4 Outputs +3dB  
 Component Video Formats: .....(YPrPb): 480i, 480p, 720p, 1080i  
 Component Video Cascade Output Unity-gain,  
 1 volt pp, terminated to 75RΩ GB+HV  
 Video Resolutions: ..... up to 1280 H X 1024 V  
 Composite Video Bandwidth:.....10 MHz, 1 Vpp  
 Component Video / RGB Input Termination: ...75Ω  
 Composite Video Input Termination:.....75Ω  
 SVHS, (Y/C) Output Termination:.....75Ω

#### Analog Audio

Input Impedance: .....47K  
 Frequency Response: .....20Hz - 60KHz  
 Cascade Input to Output Termination:.....75Ω

#### Digital Audio

Input Impedance: .....75Ω  
 PCM, SPDIF: .....44-1, 48KHz  
 Cascade Input to Output Unity-gain, X 4 Outputs +3dB

**55-616** 9 Individually molded, color coded cables, grouped & labeled. 1 x RCA composite video male plug (Yellow), 1 x SVHS molded male plug, 3 x RCA component video plugs (Y=Green, Pb=Blue, Pr= Red), 4 x each RCA stereo analog audio male plugs (2 ea. Red & White, 2 stereo audio channels), 1 x RCA Digital audio male plug (Orange). Overall cable O.D. 1.0", Individual cable O.D. .2", individual cable lengths from strain relief 11". Available in 6, 12 & 25 foot lengths. Specify lengths when ordering



#### Power

Input Power:External DC Power Supply 15Vdc @ 1.2 Amps w/ 2.1mm Coax Plug (Included)  
 Cascadable Power up to 5 units using a single power supply  
 Current Consumption:.....210mA

#### Mechanical

Audio Video Input/Output:.....RCA Gold Plated Jacks(female)  
 SVHS Video Input/Output:.....4 Pin Female Mini Din  
 DC Power Input/Output:.....2.1mm Coax Jacks (female)  
 Chassis Size:.....4.5"(W) X 8.25"(H) X 1.1"(D)  
 Enclosure Type:.....Metal  
 Chassis Color:.....Black

**New Item**

### 40-844M

### 1 X 4 HDTV DISTRIBUTION AMPLIFIER

1X4 Component Video and Stereo Audio Distribution Amplifier.  
 300MHz for HDTV component video and stereo L+R audio.

### Specifications:

Type of Video:.....HDTV Component DA  
 Video Input/Output: .....+1Vpp. 75Ω  
 Audio Input/Output: ..... Stereo (R+L) 40KΩ  
 Terminals Input/Output ..... RCA connectors  
 Video Input: ..Component Video YPbPr, YCbCr  
 Audio Input: .....Stereo Audio (R/L)  
 Video Output: Component Video YPbPr, YCbCr x 4  
 Audio Output: .....Stereo Audio (R/L) x

Video Bandwidth: .....>300MHz  
 Video Distortion: .....<1dB (+/- 3dB)  
 Audio Distortion: .....<0.6dB (+/- 3dB)  
 Channel Isolation: .....>50dB  
 Signal to Noise Ratio: .....>50dB  
 Dimensions:...(W) 12" x (D) 5.90" x (H) x 1.73"  
 Power Source:.....12Vdc @ 500mA  
 Power Adapter Included



REAR VIEW

## 40 Series - Video Distribution Amplifiers

\*\*\*Rack mountable ears are available for select products. Contact Calrad for details: 323-465-2131\*\*\*

New Item

### 40-849M

#### 1 X 8 A/V HDTV DISTRIBUTION AMPLIFIER

1 input to 8 outputs for RGBHV or RGB and L+R audio. L+R audio can also be used for PCM digital coaxial. Extends audio and RGB video up to 200'. RCA jacks for RGBHV or L+R audio IN\OUT. This product is good for distributing HDTV or progressive scan video to multiple plasma displays. AC adapter included.

#### Specifications:

Type of Video.....HDTV Component DA  
 Video Input/Output.....+1Vpp, 75Ω  
 Audio Input/Output.....Stereo (R+L), 40KΩ  
 Terminal Input/Output.....RCA connectors  
 Video Input.....Component Video YPbPr, YCbCr, RGB  
 Audio Input.....AR/AL (H, V, PCM, Coaxial)  
 Video Output.....Component Video YPbPr, YCbCr, RGB X 8  
 Audio Output ...AR/AL (H, V, PCM, Coaxial) x 8  
 Video Bandwidth.....>700MHz  
 Video Distortion.....<1dB (+/- 3dB)  
 Audio Distortion.....<0.6dB (+/- 3dB)  
 Channel Isolation.....>50dB  
 Signal to Noise Ratio.....<50dB  
 Dimensions.....17.4"(W) x 7.9" (D) x 1.73"(H)  
 Weight (unit only).....2650 gm (metal chassis)  
 Power Consumed.....@900mA Maximum  
 Power Source.....12Vdc @ 1Amp  
 AC Adapter Included



REAR VIEW

New Item

### 40-827M (Metal chassis)

#### 1 X 16 AUDIO/VIDEO DISTRIBUTION AMPLIFIER

Composite Video\Stereo Audio Distribution Amplifier. Includes AC adapter

#### Specifications:

##### INPUT:

Type of Video:.....Composite Video x 1 Output:  
 Video Input:.....+1 Vpp, 75Ω  
 Audio Input:.....Stereo (R+L) 40KΩ  
 Terminals In/Out:.....RCA Jacks (female)  
 Dimensions: ..(W) 17.32" x (D) 5.90" x (H) 2.6"  
 Power Source.....12Vdc, @500mA pos. center  
 AC Power Adapter Included

##### OUTPUT:

Video Output:.....Composite Video x 16  
 +1Vpp 75Ω  
 Audio R+L Output:.....RCA jacks (female) x 16  
 Stereo (R+L), 40K Ω  
 Video Bandwidth:.....>250 MHz  
 Video Distortion:.....<1.2dB (+/- 3dB)  
 Audio Distortion:.....<0.6dB (+/- 3dB)  
 Channel Isolation:.....>50dB  
 Signal to Noise Ratio:.....<50dB



REAR VIEW

### 40-804 1-4 COMPOSITE A/V DISTRIBUTION AMP

1 input L+R audio/video to 4 L+R audio/video outputs. color coded RCA style jacks. Extends signals up to 150'. On\Off switch and L.E.D. power indicator. Includes AC adapter.

#### Specifications:

Video Output:..... 4 RCA composite jacks  
 @ 1 Vpp, 75Ω  
 Audio R/L Output:..... 8 RCA jacks (R+L), 40KΩ  
 Video Bandwidth:..... >5MHz  
 Power Consumed:..... @350mA Maximum  
 Dimensions:..... 5"(L) x 4.25"(W) x 1.65"(H)

Video Distortion:..... <1.2dB (+/- 3dB)  
 Audio Distortion:..... <0.6dB (+/- 3dB)  
 Channel Isolation:..... >50dB  
 Signal to Noise Ratio..... <50dB  
 Net Weight (unit only)..... 1 lb  
 Power Source:..... 12Vdc @500mA pos. center  
 AC Power Adapter Included



40-804 Rear View

For the latest in HDTV accessories  
 visit <http://www.calrad.com>

# CALRAD

## 40 Series - Audio\Video Distribution Amplifiers

\*\*\*Rack mountable ears are available for select products. Contact Calrad for details: 323-465-2131\*\*\*

**New Item**

### 40-804-SVHS 1 X 4 S-VIDEO\STEREO AUDIO DISTRIBUTION AMPLIFIER.

Extends signals up to 150'. 1 SVHS input to 4 SVHS outputs with stereo audio. On/Off switch and L.E.D. power indicator. AC Adapter Included. Dimensions: 5"L x 4.25"W x 1.65"H

#### Specifications:

Audio/Video Input: 1 x SVHS, 2 x RCA Jacks  
Video Output: .....4 S-Video Jacks  
@ +0.30Vpp, 75Ω  
Audio R/L Output:.....8 RCA jacks (R+L), 40KΩ  
Video Bandwidth:.....>250MHz  
Power Consumed:.....@450mA Maximum

Video Distortion: .....<1.2dB (+/- 3dB)  
Audio Distortion: .....<0.6dB (+/- 3dB)  
Channel Isolation: .....>50dB  
Signal to Noise Ratio .....>50dB  
Net Weight (unit only) .....1 lb  
Power Source:.....12Vdc @500mA pos. center  
AC Power Adapter Included



40-804-SVHS Rear View

**New Item**

### 40-809 (Plastic Chassis) 40-809M (Metal Chassis) 1 x 8 COMPOSITE A/V DISTRIBUTION AMPLIFIER

1 input to 8 buffered and isolated outputs. On/Off switch with L.E.D. power and signal indicators show power and signal and loss of signal for each channel. Extends audio and video up to over 200'. RCA jacks IN\OUT. This product is perfect for multi-TV demo's, CCD camera feeds, and home theater systems. AC adapter included.

#### Specifications:

##### INPUT

Type of Video .....Composite Video x 1  
Video Input ..... 1Vpp: 75Ω  
Extension Distance ..... 0-50 M  
Audio Input ..... Stereo (R/L), 40Ω  
Terminals Input ..Video x 1 Jack / Audio x 2 RCA  
Dimensions ..... 9.5"L x 5.75"W x 1.75"H

##### OUTPUT:

Video Output ...Composite Video x 8 1Vpp: 75Ω  
Audio Output .....RCA connectors x 8  
Stereo (R/L), 40KΩ  
Video Bandwidth ..... 0-7.5Mhz  
Video Distortion .....<1.2dB (+/- 3dB)  
Audio Distortion ..... <0.6dB (+/- 3dB)  
Power Supply .....12Vdc, 1A, 3.5mm  
AC Power Adapter Included  
Accessories 6' AV cable with 3 RCA to 3 RCA, AC Adapter



REAR VIEW

**New Item**

### 40-810 (Plastic Chassis) 40-810M (Metal Chassis) SVHS A/V DISTRIBUTION AMPLIFIER

1 input to 8 buffered and isolated outputs. L.E.D. signal indicators show signal and loss of signal for each channel. Extends audio and S-video up to over 200'. RCA/SVHS jacks IN\OUT. This product is perfect for multi-TV demo's, CCD camera feeds, and home theater systems. AC adapter included.

#### Specifications

##### INPUT:

Type of Video .....S-Video (V/C) x 1  
Video Input ..... +0.3 Vpp: 75Ω  
Audio Input ..... Stereo (R+L): 40KΩ  
Terminals Input ..SVHS x 1 Jack / Audio x 2 RCA

##### OUTPUT:

Video Output .....S-VHS (mini 4P) x 8  
+0.3 Vpp: 75Ω  
Audio R+L Output..... RCA connectors x 8  
Stereo (R+L) 40KΩ

Video Bandwidth ..... >5Mhz  
Video Distortion .....<1.2dB (+/-) 3dB  
Audio Distortion .....<0.6dB (+/-) 3dB  
Extension Distance ..... 0-50 M  
Dimensions ..... 9"L x 5.11"W x 1.72"H  
Weight..... 40-810 = 600 gm  
40-810M = 1435 gm  
Power Supply 12Vdc, 1A, 3.5mm plug tip positive  
AC Power Adapter Included



REAR VIEW

## 40 Series - Video Distribution Amplifiers

\*\*\*Rack mountable ears are available for select products. Contact Calrad for details: 323-465-2131\*\*\*

### SVGA/HDTV DISTRIBUTION AMPLIFIERS

These amplifier/splitters are perfect for driving multiple (2, 4, or 8) analog monitor displays. Supports products up to 1GHz, one port is PNP compatible. Typical usage is 200 MHz for PCs and 350 MHz for HDTV. Comes with front panel L.E.D power indicator. Compatible for use with Calrad 55-612, 55-614, 55-866, 55-620 and 55-621 series cables. **1 DB-15 female to female gender changer included.**

- 40-822-200** .....200MHz for computer (1 in 2 out)
- 40-822-350** .....350MHz for HDTV (1 in 2 out)
- 40-824-200** .....200MHz for computer (1 in 4 out)
- 40-824-350** .....350MHz for HDTV (1 in 4 out)
- 40-828-200** .....200Mhz for computer (1 in 8 out)
- 40-828-350** .....350Mhz for HDTV (1 in 8 out)

#### Specifications:

Supports SVGA, VGA, XGA and Multisync  
 Max resolution 2048 x 1536 @ 60 Hz  
 Enhances video signal up to 200 feet  
 High density DB-15HD male (input), female (output) connectors  
 200 & 350 MHz Operates on 9 Vdc, 600 mA  
 AC Power Adapter Included  
 Rugged metal housing

Size: **40-822** and **40-824**: (L) 4.75" x (H) 1.75" x (W) 2.75"  
**40-828**: (L) 7.5" x (H) 1.75" x (W) 2.75"



40-822 Rear View



40-824 Rear View



40-828 Rear View

New Item

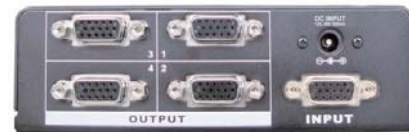
### 40-835M

#### 1 X 4 1GHz SVGA/HDTV Distribution Amplifier, Pro Version

1 input to 4 outputs for VGA RGBHV 1 female HD-15 in to 4 female HD-15 out. 1 GHz for HDTV and SVGA applications This product is perfect for distributing HDTV to multiple Plasma displays or DLP projectors. AC adapter included.

#### Specifications:

Type of Video .....VGA Distribution Amp	Channel Isolation .....>50dB
Terminals .....HD-15P Connectors	Signal to Noise Ratio .....<50dB
Input/Output .....VGA(RGBHV)	Dimensions .....4.92(W) x 3.74"(D) x 1.57"(H)
Video Bandwidth .....>1GHz	Weight (unit only) .....525 gm (metal case)
Video Distortion .....<1GHz	Power Consumed .....@450mA Maximum
Power Source .....12Vdc @500mA	
AC Power Adapter Included	



REAR VIEW

New Item

### 40-836M

#### 1 X 6 1GHz SVGA/HDTV Distribution Amplifiers, Pro Version

1 input to 6 outputs for VGA RGBHV 1 female HD-15 in to 6 female HD-15 out. 1 GHz for HDTV and SVGA applications This product is perfect for distributing HDTV to multiple Plasma displays or DLP projectors. AC adapter included.

#### Specifications:

Type of Video .....VGA Distribution Amp	Channel Isolation .....>50dB
Terminals .....HD-15P Connectors	Signal to Noise Ratio .....<50dB
Input/Output .....VGA(RGBHV)	Dimensions .....12"(W) x 5.92"(D) x 1.73"(H)
Video Bandwidth .....>1GHz	Weight (unit only) .....1625 gm (metal case)
Video Distortion .....<1GHz	Power Consumed .....@450mA Maximum
Power Source .....12Vdc @500mA	
AC Power Adapter Included	



REAR VIEW

# CALRAD

## 40 Series - Video Distribution Amplifiers

\*\*\*Rack mountable ears are available for select products. Contact Calrad for details: 323-465-2131\*\*\*

**New Item**

### 40-837M

#### 1 X 12 1GHZ SVGA/HDTV DISTRIBUTION AMPLIFIER, PRO VERSION

1 input to 12 outputs for VGA RGBHV. Single female HD-DB15 in to 12 female HD-DB15 out. 1 GHz for HDTV and SVGA applications. This product is perfect for distributing HDTV to multiple Plasma displays or DLP projectors. AC adapter included.

#### Specifications:

Type of Video .....VGA Distribution Amp  
 Terminals .....HD-DB15P Connectors  
 Input/Output.....VGA(RGBHV)  
 Video Bandwidth.....>1GHz  
 Video Distortion.....<1GHz  
 Power Source ..... 12Vdc @500mA  
 AC Power Adapter Included

Channel Isolation .....>50dB  
 Signal to Noise Ratio .....<50dB  
 Dimensions .....12"(W) x 5.92"(D) x 1.73"(H)  
 Weight (unit only) .....1685 gm (metal case)  
 Power Consumed .....@450mA Maximum



REAR VIEW

### 40-808

#### 4 X 4 COMPOSITE VIDEO EXTENDER

Applications include CCTV camera, multiple TV or Video feeds. 4 separate RCA inputs and outputs. For cable runs up to 1000". Low noise, video bandwidth 10MHz (+/- 3dB) . Video input .50Vpp; 75 ohms.

#### Specifications:

Type of Converter .... 4 Video in > 4 Video out  
 Video bandwidth ..... 10MHz, (+/- 3dB)  
 Video input ..... .50~2Vpp; 75Ω  
 Video output ..... 1Vpp; 75Ω  
 Video System ...NTSC/PAL Video (composite)  
 Video Distortion .....>1.2dB  
 Video Color Subcarrier Frequency...NTSC=3.579545MHz, PAL=4.433619MHz  
 Accessories..... 6' AV cable with 3 RCA to 3 RCA, AC adapter included

Extension distance..... min 300 M mix 500 M  
 Terminals In/Out ..... Video 4 x 4 RCA  
 Dimensions ..... 4.3"L x 3.5"W x 1.25"H  
 Power Consumed .....@1200mA Maximum  
 Power Source .....15Vdc, @1Amp (Included)  
 Weight ..... 540 gm



REAR VIEW

**New Item**

### 40-838-RCA

#### 40-838-BNC (Same as 40-838 only with BNC connectors)

#### 1 X 8 COMPOSITE (RCA) VIDEO DISTRIBUTION AMPLIFIER

RCA composite video distribution amplifier with 1 RCA or BNC video in to 8 RCA or BNC video out. This unit can be used for composite video signals from a DVD or VCR as well as CCTV cameras. AC adapter included.

#### Specifications:

##### INPUT:

Video System .....NTSC/PAL Video (composite)  
 Video Input.....0.50Vpp~2Vpp, 75Ω  
 Input Terminal .....RCA connector x 1

##### OUTPUT:

Video System .....NTSC/PAL Video (composite)  
 Video Output .....1Vpp, 75Ω  
 Output terminals .....RCA connectors X 8

Video Bandwidth......250MHz (+/- 3dB)  
 Video Distortion .....>1.2dB  
 Power Consumed .....@350mA Maximum  
 Power Source .....12Vdc, @500mA  
 AC Power Adapter Included



Rear of RCA Version



Rear of BNC Version

## 40 Series - Video Audio Distribution Amplifiers

\*\*\*Rack mountable ears are available for select products. Contact Calrad for details: 323-465-2131\*\*\*

New Item

### 40-839 1 X 8 S-VIDEO DISTRIBUTION AMPLIFIER

S-Video distribution amplifier with 1 SVHS female input to 8 SVHS females outputs. This unit can be used for composite video signals from a DVD player or S-Video VCR. AC adapter included.

**Specifications:**

**INPUT:**

Video System: .....NTSC/PAL S-Video (Y/C)

Video Input: .....0.50 Vpp. ~2Vpp, 75Ω

Input Terminal: .....S-VHS Mini-Din 4 Pin x 1

**OUTPUT:**

Video System: .....NTSC/PAL S-Video (Y/C)

Video Output: .....1 Vpp, 75Ω

Output Terminals: .....S-VHS Mini-Din 4 Pin x 8

Video Bandwidth: .....250MHz, (+/- 3dB)

Video Distortion: .....>1.2dB

Power Consumed: .....@ 350mA Maximum

Power Source: .....12Vdc @ 500mA (included)



REAR VIEW

## AUDIO ONLY DISTRIBUTION AMPLIFIERS

New Item

### 40-905 1 X 4 STEREO AUDIO (R/L) DISTRIBUTION AMPLIFIER

1 RCA stereo L+R audio in to 4 RCA stereo L+R audio outs. Used to distribute stereo analog audio over 200 feet. AC adapter included.

**Specifications:**

Type of Audio .....Stereo Audio (R/L)

Input Terminals .....RCA connectors

Audio Input .....Stereo Audio (R/L) x 1

Audio Output .....Stereo Audio (R/L) x 4

Audio Bandwidth .....20Hz ~ 60KHz

Audio Distortion .....<0.6dB (+/- 3dB)

Channel Isolation .....>50dB

Signal to Noise Ratio .....<50dB

Dimensions .....7.23"(W) x 3.20"(D) x 1.0"(H)

Weight (unit only) .....780gm

Power Consumed .....@250mA Maximum

Power Source .....12Vdc @300mA  
AC Power Adapter Included



REAR VIEW

New Item

### 40-910M 1 X 4 DIGITAL AUDIO DISTRIBUTION AMPLIFIER

1 RCA PCM Digital Coaxial input or 1 analog stereo L+R RCA to 4 RCA PCM digital coaxial outputs or 4 RCA L+R Stereo audio out. AC adapter included.

**Specifications:**

Type of Audio..Digital Audio: PCM, SPDIF, CV  
Stereo Audio R/L

Input Terminals .....RCA Jacks

Audio Input.....Digital Audio: PCM, SPDIF, CV X 1

Stereo Audio (R/L) x 1

Audio Output ....Digital Audio: PCM, SPDIF, CV X 4

Stereo Audio (R/L) x 1

Audio Bandwidth .....>110MHz

Audio Distortion .....<0.6dB (+/- 3dB)

Channel Isolation .....>50dB

Signal to Noise Ratio .....<50dB

Dimensions .....9.0"(W) x 5.92"(D) x 1.0"(H)

Weight (unit only) .....950 gm

Power Consumed .....@250mA Maximum

Power Source .....12Vdc @500mA  
AC Power Adapter Included



REAR VIEW

# CALRAD

## 40 Series - Audio Video Switchers

\*\*\*Rack mountable ears are available for select products. Contact Calrad for details: 323-465-2131\*\*\*

### 40-802

#### COMPOSITE VIDEO AND STEREO AUDIO AUTO SWITCHER

4 inputs, 2 outputs. This device switches between 4 video/audio sources automatically. When a video signal is detected from 1 of the 4 inputs that channel's video and audio are switched to the output. To select a different input simply turn on that piece of equipment and the video and audio signals will override the previous signal and route it to the output. Switching is automatic with no user interaction. This unit can easily be hidden behind the equipment and provides a simple solution for switching video devices. A L.E.D. indicator is provided on the front panel for visual indication of what input is selected. Unit can also be operated manually.

#### Specifications

Auto Control AV signals selector	4 AV in > 2 out	Channel Separation	> 50dB
Video Input	1 Vpp; 75Ω	Noise Reduction	> 50dB
Audio Input	Stereo (R+L), 40Ω	Video Bandwidth	5 MHz
Video Output	1 Vpp; 75Ω	Audio Bandwidth	Same as signal source
Audio Output	Stereo (R+L), 40Ω	Power Consumption	@125mA Maximum
Output RF system	Optional / 72dB ± 3; 75Ω	Video Distortion	< 1.2dB (standard +/- 3dB)
Dimensions	7.75"L x 5.25"W x 1.75"H	Weight (unit only)	350 gm
Audio Distortion	< 0.6dB (standard +/- 3dB)	Power Supply	DC 12V @ 300mA
AV Input Terminals	RCA jacks: video x 4, audio x 8		
AV Output Terminals	RCA jacks: video x 2, audio x 4		
Accessories	AV cable (3 RCA-3 RCA) x adapter, AC Power Adapter Included		



REAR VIEW

### 40-803

#### 4 X 2 SVHS VIDEO AND STEREO AUDIO AUTO SWITCHER

4 inputs, 2 outputs. This device switches between 4 s-video/audio sources automatically. When a video signal is detected from 1 of the 4 inputs that channel's video and audio are switched to the output. To select a different input simply turn on that piece of equipment and the video and audio signals will override the previous signal and route it to the output. Switching is automatic with no user interaction. This unit can easily be hidden behind the equipment and provides a simple solution for switching video devices. A L.E.D. indicator is provided on the front panel for visual indication of what input is selected. Unit can also be operated manually.

#### Specifications

AV signals Selector	4 SVHS in > 2 out	Channel Separation	> 50dB
Video Input	SYNC +0.30Vpp, 75Ω	Noise Reduction	> 50dB
Audio Input	Stereo (R+L), 40KΩ	Bandwidth Video	5 MHz
Video Output	1 Vpp; 75Ω	Bandwidth Audio	Same as signal source
Audio Output	Stereo (R+L), 40KΩ	Power Consumption	100mA~120mA
Audio Input terminals	video x 5, audio x 10 RCA jacks	Video Distortion video	< 1.2dB (+/- 3dB)
Audio Distortion	< 0.6dB (+/- 3dB)	Dimensions	7.9"(W) x 5.1"(D) x 1.60"(L)
Power Supply	12Vdc @300mA	Weight	845 gm
Power Consumption	125mA		
Accessories	AV cable (3 RCA-3 RCA) x adapter, AC Power Adapter Included		



REAR VIEW

New Item

### 40-842

#### 4 X 2 A/V COMPOSITE/S-VIDEO ROUTING SWITCHER

Remote/Manual controlled 4 inputs to 2 outputs composite/s-video switcher with audio combined. Comes with remote control (batteries included) A/V input cable and DC power supply.

Switching Control: Via Infra-Red Remote Control or Manual

#### Specifications:

##### INPUT:

Video Terminals...Composite & SVHS jacks x 4  
 Video Input.....+1Vpp, 75Ω  
 Audio Terminals.....RCA jacks x 12  
 Audio Input.....Stereo (R+L), 40Ω

##### OUTPUT:

Video Terminals...Composite & SVHS jacks x 2  
 Video Output.....+1Vpp, 75Ω  
 Audio Output.....Stereo (R+L), 40KΩ

Video Bandwidth.....>250MHz  
 Video Distortion.....<1.2dB (+/- 3dB)  
 Audio Distortion.....<0.6dB (+/- 3dB)  
 Channel Isolation.....>50dB  
 Signal to Noise Ratio.....<50dB  
 Dimensions.....9"(W) x 5.2"(D) x 1.70"(H)  
 Weight (unit only).....580 gm  
 Power Consumed.....@350mA Maximum  
 Power Source.....12Vdc, @500mA  
 Power Adapter Included



REAR VIEW



# CALRAD

## 40 Series - Audio Video Switchers

\*\*\*Rack mountable ears are available for select products. Contact Calrad for details: 323-465-2131\*\*\*

**New Item**

### 40-816 4 X 2 HDTV COMPONENT ROUTING SWITCHER

IR Remote/Manual controlled 4 inputs to 2 outputs component video switcher with audio combined. Comes with remote control (batteries included) A/V input cable and DC power supply.

Switching Control: Via Infra Red Remote Control or Manual

**Specifications:**

**INPUT:**

Video In put:.....Component Video (RCAs) x 12  
+1Vpp, 75Ω  
Audio Input: .....Stereo (R+L), 40KΩ  
RCA Jjacks (female) x 4

**OUTPUT:**

Video Output: ....Component Video (RCAs) x 6  
+1Vpp, 75Ω  
Audio R+L Output:.....RCA Jacks (female) x 4  
Stereo (R+L), 40KΩ

Video Bandwidth: > 250MHz  
Video Distortion: < 1.2dB (+/- 3dB)  
Audio Distortion: < 0.6dB (+/- 3dB)  
Channel Isolation: > 50dB  
Signal to Noise Ratio: < 50dB  
Dimensions: (W) 9" x (D) 5.2" x (H) 1.70"  
Power Consumed: @350mA Maximum  
Power Source: 12Vdc, 500mA

PASSES: 480P, 720P, 1080I, 540P



REAR VIEW

**New Item**

### 40-841 4 X 2 COMPOSITE/S-VIDEO MATRIX SWITCHER

Remote/Manual controlled 4 inputs to 2 outputs composite/S-Video Matrix switchers with audio combined. Comes with remote control (batteries included) A/V input cable and DC power supply. Composite/S.Video bandwidth up to 100 Mhz.

Switching Control: Via Infra Red Remote Control or Manual

**Specifications:**

**INPUT:**

Video Terminals..Composite & SVHS Jacks x 4  
Video Input.....+1Vpp, 75Ω  
Audio Terminals..... RCA Jjacks x 12  
Audio Input.....Stereo (R+L), 40Ω

**OUTPUT:**

Video Terminals..Composite & SVHS Jacks x 2  
Video Output.....+1Vpp, 75Ω  
Audio Output .....Stereo (R+L), 40KΩ

Video Bandwidth.....>250MHz  
Video Distortion .....<1.2dB (+/- 3dB)  
Audio Distortion .....<0.6dB (+/- 3dB)  
Channel Isolation .....>50dB  
Signal to Noise Ratio .....<50dB  
Dimensions .....9"(W) x 5.2"(D) x 1.70"(H)  
Weight (unit only).....580 gm  
Power Consumed .....@350mA Maximum  
Power Source .....12Vdc, @500mA  
AC Adapter Included



REAR VIEW

**New Item**

### 40-817 4 X 2 HDTV COMPONENT MATRIX SWITCHER

IR Remote/Manual controlled 4 inputs to 2 outputs Component Video Matrix switchers with audio combined. Comes with remote control (batteries included) A/V input cable and DC power supply. Component Video bandwidth up to 250 Mhz.

Switching Control: Via Infra Red Remote Control or Manual

**Specifications:**

**INPUT:**

Video Input:.....Component Video (RCAs) x 12  
+1Vpp, 75Ω  
Audio Input: .....Stereo (R+L), 40KΩ  
RCA Jacks (female) x 4

**OUTPUT:**

Video Output: ....Component Video (RCAs) x 6  
+1Vpp, 75Ω  
Audio R+L Output:.....RCA Jacks (female) x 4  
Stereo (R+L), 40KΩ

Video Bandwidth: > 250MHz  
Video Distortion: < 1.2dB (+/-3dB)  
Audio Distortion: < 0.6dB (+/- 3dB)  
Channel Isolation: > 50dB  
Signal to Noise Ratio: < 50dB  
Dimensions: (W) 9" x (D) 5.2" x (H) 1.70"  
Power Consumed: @350mA Maximum  
Power Source: 12Vdc, 500mA  
AC Adapter included

PASSES: 480P, 720P, 1080I, 540P



REAR VIEW

# CALRAD

## 40 Series - Switchers

\*\*\*Rack mountable ears are available for select products. Contact Calrad for details: 323-465-2131\*\*\*

**New Item**

### 40-830M

#### 4 X 4 AUDIO\VIDEO COMPOSITE MATRIX SWITCHER

IR Remote or Manual controlled 4 input to 4 output RCA composite Video Matrix switcher with audio combined. Comes with remote control (batteries included) A/V input cable and AC power supply. RCA Composite Video bandwidth up to 100 MHz.

#### Specifications:

##### INPUT:

Video Input .....Composite Video x 4  
+1Vpp, 75Ω

Audio Input .....Stereo (R+L), 40KΩ

Terminals Input.....RCA Jacks x 12

##### OUTPUT:

Video Output .....Composite Video x 4

+1Vpp, 75Ω

Audio R+L Output.....RCA Jacks x 8

Stereo (R+L), 40KΩ

Video Bandwidth .....>100MHz

Video Distortion .....<1.2dB (+/- 3dB)

Audio Distortion .....<0.6dB (+/- 3dB)

Channel Isolation .....>50dB

Signal to Noise Ratio .....<50dB

Video Crosstalk.....<60dB

Dimensions .....12"(W) x 5.90"(D) x 1.73"(H)

Weight (unit only) .....1360 gm

Power Consumed@500mA Maximum

Power Source 12Vdc, @1Amp

AC Power Adapter Included



REAR VIEW

**New Item**

### 40-948M

#### 8 X 8 AUDIO\VIDEO COMPOSITE MATRIX SWITCHER

IR Remote or Manual controlled 8 input to 8 output RCA composite video and L+R audio Matrix switcher. Comes with remote control (batteries included) A/V input cable and DC power supply. Composite Video bandwidth up to 250 Mhz.

#### Specifications:

##### INPUT:

Video Input .....Composite Video x 8  
+1Vpp, 75Ω

Audio Input .....Stereo (R+L), 40KΩ

Terminal Input.....RCA Jacks x 24

##### OUTPUT:

Video Output .....Composite Video x 8

+1Vpp, 75Ω

Audio R+L Output.....RCA Jacks x 16

Video Bandwidth.....>250MHz

Video Distortion .....<1.2dB (+/- 3dB)

Audio Distortion .....<0.6dB (+/- 3dB)

Channel Isolation .....>50dB

Signal to Noise Ratio .....<50dB

Video Crosstalk.....<60dB

Dimensions .....17.3(W) x 5.90(D) x 2.60(H)

Weight (unit only) .....1560 gm

Power Consumed .....@500mA Maximum

Power Source .....12Vdc @1Amp

Power Adapter Included



Rear View

**New Item**

### 40-918 Composite RCA Version

### 40-918BNC BNC Version

#### 8 X 1 COMPOSITE VIDEO (only) SWITCHER

8 composite video in to 1 composite video out either RCA or 75 ohm BNC. IR remote or manual switching capabilities. 250MHz bandwidth. This product is used to switch between multiple component video sources such as CCTV cameras, VCR or DVD Players.

#### Specifications:

Type of Video .....Composite Video

Input Terminals.....RCA Jacks

Video Input .....RCA or BNC Composite x 8

Video Output .....RCA or BNC Composite x 1

Video Bandwidth.....>250MHz

Video Distortion .....<1dB (+/- 3dB)

Channel Isolation .....>50dB

Signal to Noise Ratio .....<50dB

Dimensions .....7.23"(W) x 3.20"(D) x 1.0"(H)

Weight (unit only) .....780 gm

Power Consumed .....@250mA Maximum

Power Source .....12Vdc @300mA

AC Power Adapter Included



Rear of 40-918



Rear of 40-918-BNC

For the latest in HDTV accessories  
visit <http://www.calrad.com>

## 40 Series - Switchers & Converters

\*\*\*Rack mountable ears are available for select products. Contact Calrad for details: 323-465-2131\*\*\*

**New Item**

### 40-918SVHS 8 X 1 S-VIDEO SWITCHER

8 composite S-Video in 1 composite S-Video out. IR remote or manual switching capabilities. 250MHz bandwidth. This product is used to switch between multiple S-Video sources such as an SVHS VCR or the S-Video output of a DVD player.

**Specifications:**

Type of Video .....	S-Video (Y/C)	Channel Isolation .....	>50dB
Input Terminals .....	Mini-Din 4 Pin Sockets	Signal to Noise Ratio .....	<50dB
Video Input .....	S-Video (Y/C) x 8	Dimensions .....	7.23"(W) x 3.20"(D) x 1.0"(H)
Video Output .....	S-Video (Y/C) x 1	Weight (unit only) .....	780 gm
Video Bandwidth .....	>250MHz	Power Consumed .....	@250MHz
Video Distortion .....	<1dB (+/- 3dB)	Power Source .....	12Vdc @300mA
		AC Power Adapter Included	



REAR VIEW

**New Item**

### 40-941 4 X 1 STEREO AUDIO SWITCHER

4 RCA L+R audio inputs to 1 RCA L+R audio output. IR remote or manual control. 20Hz to 60KHz frequency response. This product is used to switch between multiple stereo audio sources.

**Specifications:**

Type of Audio .....	Stereo Audio (R/L)	Channel Isolation .....	>50dB
Input Terminals .....	RCA Jacks	Signal to Noise Ratio .....	<50dB
Audio Input .....	Stereo (R/L) x 4	Dimensions .....	7.23"(W) x 3.20"(D) x 1.0"(H)
Audio Output .....	Stereo Audio (R/L) x 1	Weight (unit only) .....	780 gm
Audio Bandwidth .....	20Hz ~ 60KHz	Power Consumed .....	@250mA Maximum
Audio Distortion .....	<0.6dB (+/- 3dB)	Power Source .....	12Vdc @300mA
		AC Power Adapter Included	



REAR VIEW

## VIDEO SIGNAL CONVERTERS

**New Item**

### 40-806 VGA TO VIDEO PC TO VIDEO CONVERTER

VGA to video converter. Converts VGA modes 1024 x 768, 800 x 600, 640 x 480 into NTSC video and Pal 4.43, Pal-M 3.57, Pal-N 3.58 video. Supports scan rates from 50Hz to 100 Hz. VGA input to S-VHS, composite VGA outputs. Front panel adjustments for video image adjustments, size and location. AC adapter included.

**Specifications:**

<b>INPUT:</b>		Output Terminals .Video Composite (RCA) x 1
VGA Input .....	640 X 480 to max. 1024 X 768	S-Video (mini-4p) x 1
VGA Output .....	640 X 480 to max. 1024 X 768	VGA (HD-DB15p) x 1
Video Output .....	NTSC, PAL, SECAM	Field Memory .....
S-Video Output .....	NTSC, PAL, SECAM	2 MB (16BIT)
Input Terminal. .VGA +0.7Vpp, 75Ω	VGA (DB-15)	Dimensions ....
<b>OUTPUT:</b>		7.90"(W) x 4.72"(D) x 1.57"(H)
Output System .....	NTSC, PAL, PAL-M, PAL-N	Weight (unit only) .....
VGA Output .....	+0.7Vpp, 75Ω	395 gm
S-Video Output .....	Y=1Vpp, C=0.3Vpp, 75Ω	Power Source .....
VGA Horizontal Frequency .....	31.50KHz	9Vdc, @600mA
Resolution:....	Horizontal/Vertical 640 x 480 to 1024 x 768 max	AC Power Adapter Included
PAL/NTSC Line Conversion...	NTSC 525, PAL 625 LINES	
PAL/NTSC Field Conversion...	NTSC 60Hz/PAL-M 60Hz/PAL 50Hz	



REAR VIEW

# CALRAD

## 40 Series - Audio & Video Converters

\*\*\*Rack mountable ears are available for select products. Contact Calrad for details: 323-465-2131\*\*\*

New Item

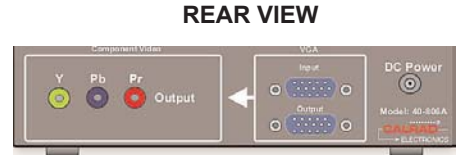
### 40-806A VGA TO COMPONENT VIDEO CONVERTER

Used to convert HDTV Set Top Boxes or personal computer video VGA (RGB+HV) outputs to a progressive component (YPrPb) video signal to HDTV monitor. VGA input/output connectors for simultaneous VGA and component video signal outputs. Supports 480P, 720P, 1080I/540P formats. Front panel on/off switch with component video signal indicator.

#### Specifications:

VGA Input \ Output connectors: ..... HD-DB15 Female Connectors  
 Component Video Connectors: ..... RCA Female connectors (Green, Red, Blue)  
 Video RGB Input: ..... 7V p-p, 75Ω, terminated  
 Video RGB Output: ..... 7V p-p, 75Ω, terminated  
 Component Video Output: ..... 7V p-p, 75Ω  
 Horizontal & Vertical Sync: ..... Positive or Negative 5 Volt TTL  
 Video Bandwidth ..... -3db @ 250 Mhz  
 Signal delivery length: ..... Calrad 55-871, 872, 55-615 cable up to 75 ft,  
 55-612 cable up to 100 ft  
 Dimensions: ..... L-5" x W-4" x H-2"  
 Power Requirements ..... 12Vdc, 500mA (AC Power Adapter Included)  
 Case Style: ..... Metal chassis \ Black Enamel Finish

all specifications subject to change without notice.



PASSES: 480P, 720P, 1080I, 540P



New Item

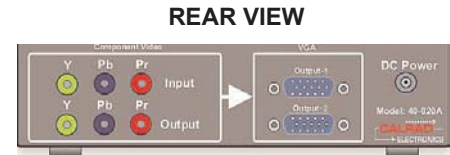
### 40-820A COMPONENT TO VGA VIDEO CONVERTER

Used to convert (YPrPb) video signals from DVD players, Video Games, HDTV Set Top Boxes output to personal computer video, VGA (RGB+HV). Automatically adjusts to incoming video resolution format, supports 480P, 576i, 576p, 720P, 1080I/540P formats, 2 VGA output jacks. Component video in/out pass-thru jacks. Front panel on/off switch with VGA video signal indicator.

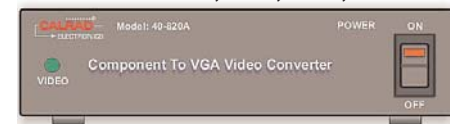
#### Specifications:

VGA Output connectors: ..... HD-DB15 Female Connectors  
 Component Video Connectors: ..... RCA Female Connectors (Green, Red, Blue)  
 Video RGB Output-1: ..... 7V p-p, 75Ω, Terminated  
 Video RGB Output-2: ..... 7V p-p, 75Ω, Terminated  
 Component Video Output: ..... 7V p-p, 75Ω  
 Horizontal & Vertical Sync: ..... Positive or Negative 5 Volt TTL  
 Video Bandwidth ..... -3dB @ 250 MHz  
 Signal delivery length: ..... 50ft., Calrad 55-612-HDTV cable up to 100 ft.  
 Dimensions: ..... L-5" x W-4" x H-2"  
 Power Requirements ..... 12Vdc, 500mA (AC Power Supply Included)  
 Case Style: ..... Metal Chassis \ Black Enamel Finish

all specifications subject to change without notice.



PASSES: 480P, 720P, 1080I, 540P



New Item

### 40-820 VIDEO TO VGA CONVERTER (640 x 480)

Video to VGA converter. Converts NTSC video and Pal 4.43, Pal-M 3.57, Pal-N 3.58 video. To VGA 1024 x 768, 800 x 600, 640 x 480 Supports scan rates from 50Hz to 100 Hz. S-VHS, composite RCA inputs to HD-15 VGA output. Front panel input selector for PAL/NTSC or SECAM. AC adapter included.

#### Specifications:

##### INPUT:

Video System ..... NTSC, PAL, SECAM  
 Video Input ..... +0.5Vpp~2Vpp, 75Ω  
 VGA Input ..... +0.7Vpp, 75Ω  
 S-Video Input ..... Y=1Vpp, C=0.3Vpp, 75Ω  
 Input Terminals... Video (RCA) x1, S-Video x 1  
 Power Consumed ..... @520mA Maximum  
 Power Source ..... +5Vdc @1amp

##### OUTPUT:

Video System ..... VGA  
 VGA Output ..... 0.7Vpp, 75Ω  
 VGA Horizontal Frequency ..... 31.50KHz  
 Output Terminals ..... VGA (HD-DB15) x 1  
 Resolution Horizontal/Vertical: ... 640x480 to 1024x768 Max.  
 Dimensions: ..... 1.57"(H) x 7.90"(W) x 4.72"(D)  
 Weight (unit only) ..... 395 gm



REAR VIEW

# CALRAD

## 40 Series - Video Signal Converters

\*\*\*Rack mountable ears are available for select products. Contact Calrad for details: 323-465-2131\*\*\*

New Item

### 40-821 DIGITAL SYSTEM CONVERTER

**DIGITAL TV SIGNAL CONVERTER: NTSC, PAL & SECAM TO NTSC & PAL**  
Convert an RCA or S-Video NTSC, PAL or SECAM video signal to NTSC or PAL format. AC adapter included.

**Specifications:**

**INPUT:**

TV Input .....NTSC, PAL, SECAM  
Video Input .....0.5Vpp~2Vpp, 75Ω  
Input Terminals...Video (composite RCA), S-Video

**OUTPUT:**

TV Output.....NTSC, PAL, PAL-M, PAL-N  
Video Output .....1Vpp, 75Ω  
Output Terminals...Video (composite RCA), S-Video

Line Conversion .....NTSC 525, PAL 625 lines  
Field Conversion....NTSC 60, PAL 50Hz fields  
Field Memory .....2MB (16Mbit)  
Dimensions .....7.9"(W) x 4.8"(D) x 1.15"(H)  
Weight (unit only) .....367 gm  
Power Consumed .....@1.5amp Maximum  
Power Source .....+5Vdc @1.5amps



REAR VIEW

New Item

### 40-821A DIGITAL TV SIGNAL CONVERTER with STEREO AUDIO NTSC, PAL, SECAM TO NTSC, PAL

Convert an RCA or S-Video NTSC, PAL or SECAM video signal to NTSC or PAL format. with L+R RCA stereo audio in and out. AC adapter included.

**Specifications:**

**INPUT:**

TV Input .....NTSC, PAL, SECAM  
Video Input .....0.5Vpp~2Vpp, 75Ω  
Input Terminals...Video (composite RCA) x 2, S-Video

**OUTPUT:**

TV Output.....NTSC, PAL, PAL-M, PAL-N  
Video Output .....1Vpp, 75Ω  
Output Terminals...Video(composite RCA) x 2, S-Video

Line Conversion .....NTSC 525, PAL 625 lines  
Field Conversion....NTSC 60, PAL 50Hz fields  
Field Memory .....12MB (96Mbit)  
Dimensions .....7.9"(W) x 4.8"(D) x 1.15"(H)  
Weight (unit only) .....367 gm  
Power Consumed .....@1.5amp Maximum  
Power Source .....+5Vdc @1.5amps



REAR VIEW



New Item

### 40-823 NTSC to PAL ANALOG TV and STEREO AUDIO SIGNAL CONVERTER

NTSC to PAL converter with RCA video in and out and L+R audio in and out. Allows you to convert any NTSC video source to PAL format.

**Specifications:**

**INPUT:**

System Type .....NTSC composite A/V  
Video Input .....0.5Vpp ~ 2Vpp, 75Ω  
A/V Input Terminals .....RCA jacks (female) x 3  
Video Color Subcarrier Frequency...3.579545MHz  
Audio Input.....-20db, 25KΩ  
Power Source .....9Vdc @200mA

**OUTPUT:**

System Type .....PAL, PAL-M, PAL-N A/V  
Video Output .....1Vpp, 75Ω  
A/V Output Terminals ..RCA jacks (female) x 3  
Video Color Subcarrier Frequency:  
PAL = 4.433619MHz  
PAL-M = 3.575611MHz  
PAL-N = 3.58256MHz  
Video Line Conversion Out .....525  
Field Line Conversion Out .....60Hz



REAR VIEW

# CALRAD

## 40 Series - Video Signal Converters

\*\*\*Rack mountable ears are available for select products. Contact Calrad for details: 323-465-2131\*\*\*

### 40-811 MULTIVIDEO SYSTEM CONVERTER PC TO TV AND TV TO PC

Two way display TV/PC bi-directionally. VGA signals to any world system. Line conversion from 525 lines to 625 lines. Field conversion from NTSC 60Hz to Pal 50Hz. Composite IN/OUT, SVHS IN/OUT, HD-DB15 IN/OUT. Easy to use front panel controls. AC adapter included.

#### Specifications:

##### INPUT:

Video System .....VGA, NTSC, PAL, SECAM  
 Video Input .....+0.5vpp ~ 2Vpp, 75Ω  
 VGA Input .....+0.7Vpp, 75Ω  
 S-Video.....Y=1Vpp, C=0.3Vpp, 75Ω  
 Input Terminals ..VGA (DB-15p), Video (RCA),  
 S-Video (Mini-4p)

Frequency Response.....5MHz  
 Digital Component.....8 bit  
 Differential Phase.....Phase 1°  
 Differential Gain .....1%  
 Field Memory .....2 MB (16BIT)  
 Dimensions .....7.75"(W) x 5.0"(D) x 1.6"(H)  
 Weight \*(unit only).....395 gm  
 Power Consumed .....@1.2mA Maximum  
 Power Source .....+5Vdc @1.5amps  
 Power Adapter Included

##### OUTPUT:

Video System .....VGA  
 Video Output .....+1Vpp, 75Ω  
 S-Video Output.....Y=1Vpp, C=0.3Vpp, 75Ω  
 VGA Output.....+0.7Vpp, 75Ω  
 VGA Horizontal Frequency.....31.50KHz  
 PAL/NTSC Line Conversion.....NTSC 525, PAL 625 Lines  
 PAL/NTSC Field Conversion .....NTSC 60Hz, PAL-M 60Hz, PAL 50Hz  
 Resolution Horizontal/Vertical:.....640x480 to 1024x768 Max.  
 Sampling FrequencyInput: .....14.318MHz, Output: 28.636MHz  
 Output Terminals:.....VGA (DB-15p) x 1, Video(RCA) x 1, S-Video (mini-4p) x 1



REAR VIEW

### 40-812

#### 1 X 5 NTSC VIDEO CONDITIONER

This unit is used for connecting DVD players to combo NTSC TV/VCR units. Removes interfering AGC or encoding signals associated with interfacing a DVD player to a VCR. Uses digital processing circuitry to maintain AGC and video contrast. RCA In/Out jacks. Includes video cable and power supply. One input 5Output's.

#### Specifications:

##### INPUT:

Video System .....NTSC Video (Composite)  
 Video Input .....0.50Vpp, 75Ω  
 Input Terminals .....RCA Jacks (Female) x 1  
 Dimensions .....4.35"(W) x 1.27"(H) x 3.42"(D)  
 Power Consumed .....@45mA Maximum  
 Power Source .....12Vdc @100mA  
 Video Color Subcarrier Frequency:....3.579545MHz  
 AC Power Adapter Included

##### OUTPUT:

Video System .....NTSC (composite)  
 Video Output .....0.50Vpp, 75Ω  
 Video Color Subcarrier Frequency:....3.579545MHz  
 Output Terminals.....RCA Jacks (Females) x 5  
 Video Bandwidth.....10MHz (+/- 3dB)  
 Video Distortion .....>1.2dB



REAR VIEW

#### ALSO AVAILABLE IN PAL CONFIGURATION (1 X 4) 40-812B

One input 4 outputs, with video level control.

New Item

### 40-819

#### RGB+HV to COMPOSITE, S-VIDEO DECODER

Convert RGB composite video to RCA or S-Video. 5 RCA jacks for RGBHV in and 1 RCA composite or 1 SVHSvideo out. AC adapter included.

#### Specifications:

##### INPUT:

Video System .....RGB (Composite)  
 Video Input .....1Vpp, 75Ω  
 Input Terminals .....RCA Jacks (Females) x 5  
 Power Consumed .....@45mA Maximum  
 Power Source .....12Vdc @100mA  
 AC Power Adapter Included

##### OUTPUT:

Video System:..Composite Video/S-Video (Y/C)  
 Video Output .....1Vpp, 75Ω  
 Output Terminals.....RCA Jacks (Female) x 1  
 S-Video (Mini-Din 4p) x 1  
 Video Bandwidth.....10MHz, (+/- 3dB)  
 Video Distortion .....>1.2dB



REAR VIEW

## 40 Series - RF Modulators & IR Remote Control Extender

\*\*\*Rack mountable ears are available for select products. Contact Calrad for details: 323-465-2131\*\*\*

### 40-805 DIGITAL RF MODULATOR

Modulates video/stereo muted audio to RF CATV/UHF channels CATV 66-134, UHF 14-69. Power loss channel loss circuitry (Eprom). Audio and video feed-thru jacks. AC adapter and AV, RF cables included.

#### Specifications:

##### INPUT:

Type of Video.....Composite Video  
Video Input.....+1Vpp, 75Ω  
Audio Inut.....Stereo (R+L), 20Hz ~ 60KHz  
Input Terminals.....Video = RCA Jacks x 1  
Audio = RCA Jacks x 3  
Weight (unit only).....325 gm  
CATV FREQUENCY  
Video.....475.25 ~ 799.25MHz  
Audio.....479.25 ~ 803.75MHz  
TV FREQUENCY  
Video.....471.25 ~ 801.25MHz  
Audio.....475.75 ~ 805.75MHz

##### OUTPUT:

Type of Video.....NTSC Composite  
Video Output.....+70Vpp, 75Ω  
Output Terminals....."F" Female x 1  
Video RCA Jacks x 1  
Audio RCA Jacks x 2  
Video Distortion.....<1.2dB (+/- 3dB)  
Audio Distortion.....<0.6dB (+/- 3dB)  
Dimensions: ...1.57"(H) x 4.92"(W) x 3.15"(D)  
Power Consumed.....@400mA Maximum  
Power Supply.....9Vdc @500mA  
AC Power Adapter Included



Red L.E.D Digital Channel Display  
Channel Up, Down Buttons



REAR VIEW



- 40-805-CF6268 Channel Filter for 62-68
- 40-805-CF7278 Channel Filter for 72-78
- 40-805-BRF60 Band Rejection Filter for 60-up
- 40-805-BRF70 Band Rejection Filter for 70-up
- 40-805-BRF105 Band Rejection Filter for 105-up
- 40-805-BRF118 Band Rejection Filter for 118-up



- 40-805-SC2 Dual Channel RF Signal Combiner
- 40-805-SC4 Quad Channel RF Signal Combiner

### 40-800A AUTO SWITCHING RF MODULATOR

Modulates NTSC video and audio to CH-3/4. Connects video devices such as DVD's, Satellite receivers, Video Games, Camcorders on televisions with no audio or video inputs. Includes AC adapter and 6' RF male to male cable. Passes RF when the video source is off. Auto switches RF to video when video is present. A front panel red L.E.D. indicator is lit when the modulator is in operation.

#### Specifications:

Type of Converter... AV to RF Auto Switching  
Input AV System..... NTSC  
Color Subcarrier Frequency..... 3.58 MHz  
Video Input..... 0.5Vpp~2 Vpp; 75Ω  
Audio Input..... -20dB; 25KΩ  
Output RF System..... NTSC  
RF Output Frequencies..... Ch-3 = 61.25 MHz  
Ch-4 = 67.25MHz Switchable

RF Output..... 70dB, 75Ω  
Connectors..... RF: 2 F-61 connectors,  
Video/Audio.....3 RCA Jacks, Video L+R Audio  
Connection Terminals Output..... RF IN/OUT  
Power Supply 12Vdc, 150mA, 3.5mm plug, tip(+)  
Dimensions..... 3.75"(L) x 5.9"(W) x 1.75"(H)  
Weight......535 gm  
Accessories..... 6' RF cable, AC Adapter



REAR VIEW

New Item

### 40-990 WIRELESS INFRARED REMOTE CONTROL EXTENDER

2 Piece receiver/transmitter allows infrared remote to be used up to 120 feet away. Converts any infrared remote to a thru-wall RF remote. Includes infrared emitter for when line of sight placement is not possible. Receiver has built-in IR output jack. IR extender unit is included. Attractive high-tech modern design. Converts any IR remote control to a thru-wall remote. Operates your home entertainment system, relays remote control signals to satellite receivers, VCR, home theater receivers, CD/DVD players, cable boxes and much more.

#### Specifications:

RF Frequency..... 433MHz  
IR Carrier Frequency..... 30-60KHz  
IR Detector Range (Receiver)..... Up to 6 meters  
RF Range..... Up to 120 feet (clear line of sight)  
Power..... 110Vac  
Size..... 4"(L) x 5"(H) x 3"(W)



Receiver

Transmitter

IR Extender