

RGB 460xi Series Floor Box Interfaces

Architectural Interfaces for FSR, Steel City, and Ackermann Floor Boxes



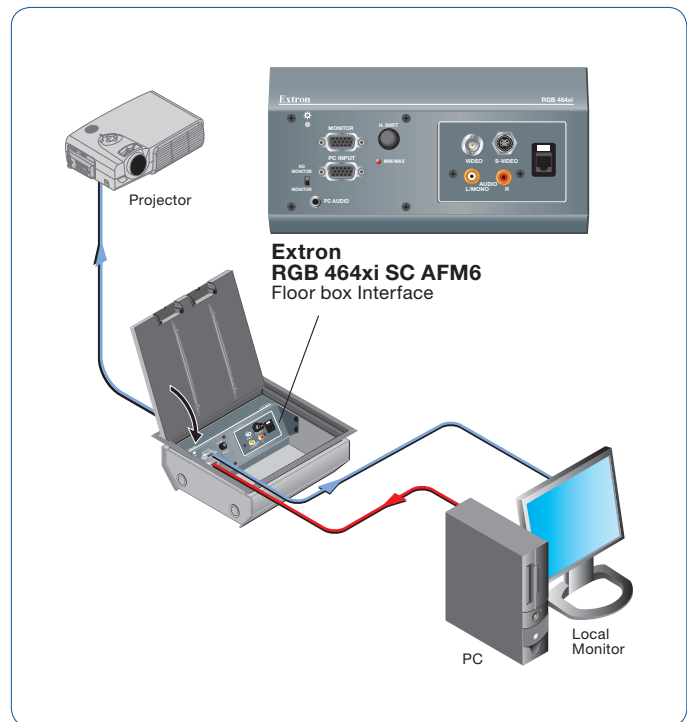
COMMON FEATURES

- Input: RGB video on female 15-pin HD connectors; audio on 3.5 mm stereo mini jacks
- Output: RGB video on female 5-BNC pigtail; audio on captive screw connector
- Universal, analog computer-video interface
- Compatible with VGA-QXGA, Mac, Sun®, and SGI® computers
- 300 MHz (-3 dB) RGB video bandwidth
- ADSP™ - Advanced Digital Sync Processing
- Active PC audio to balanced audio interfacing
- Three-position level/peaking control
- Horizontal Shift Control
- Buffered female 15-pin HD local monitor output
- External universal power supply included, part # 70-055-01

DESCRIPTION

The Extron **RGB 460xi Series Floor Box Interfaces** are architectural interfaces that can be mounted in FSR, Steel City, and Ackermann brand floor boxes. A low-profile design provides ample space for cables and connectors within the floor box. Each mounting plate is engineered to fit easily into any of the floor box configurations, making installations quick and clean.

With a 15-150 kHz horizontal frequency range, and 300 MHz (-3 dB) of RGB video bandwidth, each interface features a female 15-pin HD connector for connecting computers to display devices, as well as Extron's ADSP™ - Advanced Digital Sync Processing. ADSP provides all-digital processing of sync signals, avoiding the tearing and other image distortions encountered when using poor sync processing methods with digital display devices such as DLP, LCD, D-ILA™/LCoS plasma, etc.



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RGB 460xi Series Floor Box Interfaces

RGB 460xi FSR

Architectural Interface for FSR Floor Box

UNIQUE FEATURES

- Mounts in FSR floor box
- Black faceplate



MODEL	VERSION DESCRIPTION	PART #
RGB 460xi FSR	For FSR Floor Box	60-373-40

RGB 464xi SC-AFM 6

Architectural Interface for Steel City® AFM 6 Floor Box

UNIQUE FEATURES

- Mounts in Steel City AFM 6 floor box
- Includes composite video pass-through connector, RCA to BNC, S-video pass-through connector, 4-pin mini DIN female to female, active stereo/mono, unbalanced to balanced stereo audio driver, and RJ-45 connector for network, data, and phone transmissions



MODEL	VERSION DESCRIPTION	PART #
RGB 464xi SC-AFM 6	For Steel City® AFM 6 Floor Box	60-465-01

RGB 468xi AKM UK

Architectural Interface with AAP Opening for AKM - Ackermann Floor Box

UNIQUE FEATURES

- Mounts in Ackermann UK - United Kingdom floor box
- Opening for three AAP - Architectural Adapter Plates, AAPs sold separately



MODEL	VERSION DESCRIPTION	PART #
RGB 468xi AKM UK	For Ackermann Floor Box - Black	60-626-02

RGB 460xi Series Floor Box Interfaces Accessories

REQUIRED ACCESSORY	MODEL DESCRIPTION	PAGE	PART #
VGA-A M-M MD/6	15-pin HD Male to Male - 6' (1.8 m)	page 60	26-490-02
Mac 15-HD	Mac Adapter Kit with Audio	page 60	70-156-01
13W3 - 15HD	13W3 Adapter Kit with Audio	page 60	70-157-03
OPTIONAL ACCESSORIES	MODEL DESCRIPTION	PAGE	PART #
AAPs	Architectural Adapter Plates	page 162	assorted
MAAPs	Mini Architectural Adapter Plates	page 194	assorted
PS 123	12VDC Rack Mountable, Multiple Output Power Supply	page 695	60-814-01

Note: FSR, Steel City, and Ackermann floor boxes are not included.

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RGB 460xi Series Floor Box Interfaces

SPECIFICATIONS

VIDEO

Gain	Unity (0.7 V), 15% with 3 dB peaking (0.8 V), 30% with 6 dB peaking (0.9 V)
Bandwidth	300 MHz (-3 dB)

VIDEO INPUT AND LOOP THROUGH

Number / Signal type	1 analog RGBHV, RGBS, RGsB
Connectors	1 female 15-pin HD buffered input connector and 1 female 15-pin HD local monitor loop through connector
Nominal level	0.7 Vp-p for RGB
Minimum / Maximum levels	Analog: 0.3 V to 1.45 Vp-p with no offset at unity gain
Impedance	75 ohms or Hi Z, switchable (set to 75 ohms if no local monitor is connected)
Horizontal frequency	15 kHz to 150 kHz (optimum: 15 kHz to 62 kHz)
Vertical frequency	30 Hz to 170 Hz
Return loss	<-30 dB @ 5 MHz

VIDEO OUTPUT

Number / Signal type	1 analog RGBHV, RGBS, RGsB
Connectors	5 BNC female on 2" to 2.5" cables
Nominal level	0.7 Vp-p for RGB
Minimum / Maximum levels	Analog: 0.7 V to 0.9 Vp-p (switch selectable) w/peaking and 0.7 Vp-p input
Impedance	75 ohms
Return loss	-30 dB @ 5 MHz

SYNC

Input type	Autodetect RGBHV, RGBS, RGsB (accepts RGsB but does not strip from video)
Output type	RGBHV: at all times RGBS: switch selectable RGsB: switch selectable or pass-through
Input level	2.0 V to 5.5 Vp-p with +0.2 VDC offset max.
Output level	4.0 V to 5.0 Vp-p, unterminated
Input impedance	510 ohms
Output impedance	75 ohms
Max propagation delay	52 ns
Max Rise / Fall time	2.5 ns
Polarity	Positive or negative

AUDIO (ALL MODELS)

Gain	Unbalanced output: 0 dB; balanced output: +6 dB
Response	20 Hz to 20 kHz, ±0.5 dB
THD + Noise	0.03% @ 1 kHz, 0.3% @ 20 kHz at nominal level
S/N	>90 dB at maximum output (14 dBu), balanced (unweighted)
Stereo channel separation	>90 dB @ 1 kHz to 20 kHz

AUDIO INPUT (RGB 464XI SC-AFM 6)

Number / Signal type	2 stereo, unbalanced, 20 Hz to 20 kHz
Connectors	Ch. 1: 3.5 mm stereo female jack (2 channel), unbalanced; tip (L), ring (R), sleeve (ground) Ch. 2: 2 RCA female jacks
Impedance	>5k ohms unbalanced, DC coupled
Nominal level	-10 dBV (316 mV)
Maximum level	+8.5 dBu (unbalanced) at 1% THD+N

AUDIO INPUT (ALL OTHER MODELS)

Number / Signal type	1 stereo, unbalanced, 20 Hz to 20 kHz
Connectors	3.5 mm stereo female jack (2 channel), unbalanced; tip (L), ring (R), sleeve (ground)
Impedance	>5k ohms unbalanced, DC coupled
Nominal level	-10 dBV (316 mV)
Maximum level	+8.5 dBu (unbalanced) at 1% THD+N

AUDIO OUTPUT (RGB 464XI SC-AFM 6)

Number / Signal type	2 buffered, stereo (2 channel), balanced/unbalanced
Connectors	(2) 3.5 mm captive screw connectors, 5 pole
Impedance	50 ohms unbalanced, 100 ohms balanced
Gain error	±0.1 dB channel to channel
Maximum level (600 ohm)	+14 dBm, balanced at 1% THD+N

AUDIO OUTPUT (ALL OTHER MODELS)

Number / Signal type	1 buffered, stereo (2 channel), balanced/unbalanced
Connectors	3.5 mm captive screw connector, 5 pole
Impedance	50 ohms unbalanced, 100 ohms balanced
Gain error	±0.1 dB channel to channel
Maximum level (600 ohm)	+14 dBm, balanced at 1% THD+N

NOTE: 0 dBu = 0.775 V, 0 dBV = 1 V, 0 dBV ≈ 2 dBu.

GENERAL

Power	Supplied by an external power supply (A 12 VDC, 1 A power supply is included.)
External power supply	100 VAC to 240 VAC, 50/60 Hz, external, universal; to 9 to 12 VDC, 0.2 A, regulated

Power input requirements	12 VDC, 0.2 A (minimum)
Temperature / Humidity	Storage: -40 to 158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32° to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing

Rack mount

RGB 460/464 models	No
RGB 460xi FSR	Steel City AFM floor box mountable
RGB 468xi AKM UK	FSR floor box mountable
RGB 468xi AKM UK	Ackermann UK floor box mountable

Enclosure type

Enclosure dimensions

Faceplate	
RGB 460xi FSR	4.5" H x 3.5" W x 0.1" D (11.4 cm H x 9.0 cm W x 0.3 cm D)
RGB 468xi AKM UK	3.0" H x 8.1" W x 0.6" D (7.6 cm H x 20.6 cm W x 1.5 cm D)
RGB 464xi SC-AFM 6	2.9" H x 8.9" W x 0.1" D (7.4 cm H x 22.6 cm W x 0.3 cm D)

Interface enclosure

All models	2.7" H x 3.3" W x 1.0" D (6.9 cm H x 8.4 cm W x 2.8 cm D) (Depth excludes front panel connectors and controls.)
SC-AFM 8 adapter plate	4.4" H x 9.4" W x 0.1" D (11.2 cm H x 23.9 cm W x 0.3 cm D)

Product weight

RGB 460xi FSR	0.5 lbs (0.3 kg)
RGB 464xi SC-AFM 6	0.8 lbs (0.4 kg)
RGB 468xi AKM UK	0.8 lbs (0.4 kg)

Shipping weight

RGB 468xi AKM UK	2 lbs (1 kg)
All other models	3 lbs (2 kg)

Vibration

ISTA 1A in carton (International Safe Transit Association)	
Listings	UL, CUL
Compliances	CE, FCC Class A, VCCI, AS/NZS, ICES

MTBF

Warranty

NOTE: All nominal levels are at ±10%. Specifications are subject to change without notice.

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