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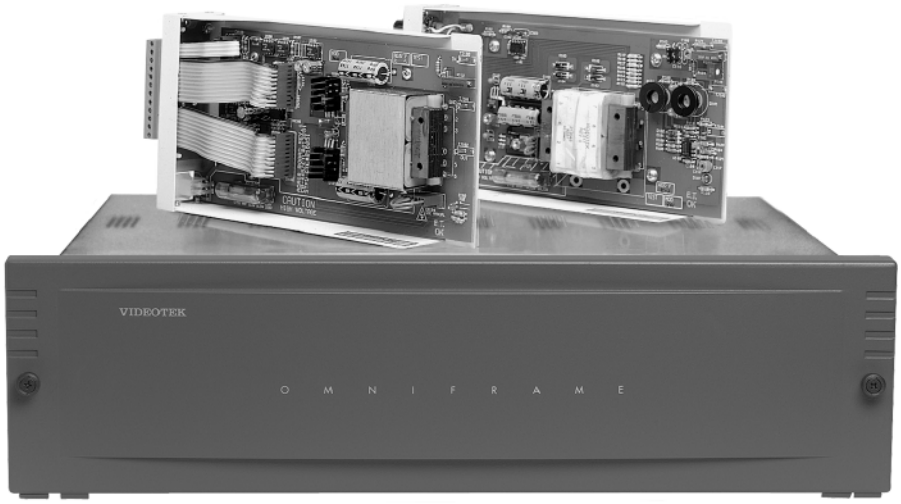
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Find the *Videotek VDA-18F* at our website: *Click HERE*



OMNIFRAME® is the most versatile rackmount frame architecture available, accommodating ten modules. Any combination of Videotek's current or future modules may be installed in OMNIFRAME to meet a variety of applications.

The OMNIFRAME features total module interchangeability. Each module type fits into any slot of the OMNIFRAME tray. Eight outputs per distribution amplifier results in a low cost per output. Since it is not necessary to have a dedicated frame for each type of module, OMNIFRAME saves valuable rack space. Each module has a self-contained power supply so there is no single point of failure as with common power supply frames. OMNIFRAME is the most cost-effective rackmounted system in today's market, offering unparalleled flexibility and convenience.

MODULES AVAILABLE:

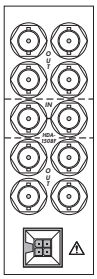
HDA-1508F/1508AF
HDA-1504F/1504AF
High Definition Digital Video Distribution Amplifiers
DDA-104MPEGF
MPEG Distribution Amplifier
DDA-108F
Serial Digital Distribution Amplifier
DDA-144F
Serial Digital Distribution Amplifier w/Analog Monitoring
VMA-10F
Video Monitoring Adapter
VDA-18F
Analog Video Distribution Amplifier
ADA-18F
Analog Audio Distribution Amplifier
ADS-24F
Analog Stereo Audio Distribution Amplifier
VSG-21F
Color Sync Reference Signal Generator
VSG-10F
NTSC/PAL Blackburst Generator

FOR -48V DC OPERATION:

VDA-18F/DC
Analog Video Distribution Amplifier
ADS-24F/DC
Analog Stereo Audio Distribution Amplifier
ADA-18F/DC
Analog Audio Distribution Amplifier

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HDA-1508F/HDA-1508AF HIGH DEFINITION DIGITAL VIDEO DISTRIBUTION AMPLIFIER



BACK PANEL

(Shown with looping input)

FEATURES

- *Looping input (HDA-1508F)*
- *8 non-reclocked outputs*
- *Dynamic Equalization Display*
- *High quality signal output*
- *Multi-standard*
- *Multi-format*

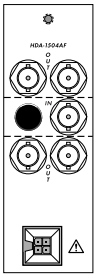
SPECIFICATIONS: VIDEO INPUT

CONNECTOR: BNC
FORMAT: 1.485 Gb/s per SMPTE 292M through 270 Mb/s per SMPTE 259M-C
RETURN LOSS: ≤-15 dB, from 5 MHz to 1.485 GHz
EQUALIZATION: Automatic EQ up to 100 meters of 8281 at 1.485 Gb/s

VIDEO OUTPUT

CONNECTOR: BNC
IMPEDANCE: 75 Ω, source terminated
LEVEL: 800 mV p-p ±10%
RISE / FALL: ≤270 ps, from 20% to 80% points

HDA-1504F/HDA-1504AF HIGH DEFINITION DIGITAL VIDEO DISTRIBUTION AMPLIFIER



BACK PANEL

(Shown with non-looping input)

FEATURES

- *Looping input (HDA-1504F)*
- *4 non-reclocked outputs*
- *Dynamic Equalization Display*
- *High quality signal output*
- *Multi-standard*
- *Multi-format*

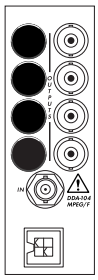
SPECIFICATIONS: VIDEO INPUT

CONNECTOR: BNC
FORMAT: 1.485 Gb/s per SMPTE 292M through 270 Mb/s per SMPTE 259M-C
RETURN LOSS: ≤-15 dB, from 5 MHz to 1.485 GHz
EQUALIZATION: Automatic EQ up to 100 meters of 8281 at 1.485 Gb/s

VIDEO OUTPUT

CONNECTOR: BNC
IMPEDANCE: 75 Ω, source terminated
LEVEL: 800 mV p-p ±10%
RISE / FALL: ≤270 ps, from 20% to 80% points

DDA-104MPEGF MPEG DISTRIBUTION AMPLIFIER



BACK PANEL

FEATURES

- *MPEG input data rates from 19.39 Mb/s to 270 Mb/s*
- *Compatible with DVB-ASI signals (NRZ and NRZI)*
- *Four fully-compliant outputs*
- *Front panel input equalization indicators*

SPECIFICATIONS: DIGITAL DATA

INPUT LEVEL:
800 mV p-p nominal

INPUT CABLE EQUALIZATION:
Automatic equalization for up to 300m of 8281 @ 270 Mb/s

INPUT IMPEDANCE:
75Ω BNC, terminating

INPUT RETURN LOSS:
≤-15 dB, 5 MHz to 270 MHz

DATA RATES:
19.39 Mb/s to 270 Mb/s (NRZ or NRZI)

OUTPUT LEVEL:
800 mV p-p ±10% with 75Ω resistive load

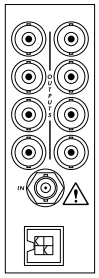
OUTPUT IMPEDANCE:
75Ω, nominal

THROUGHPUT DELAY:
1.5 ns, typical

Model	Outputs	Looping Input
HDA-1504F	4	Y
HDA-1504AF	4	N
HDA-1508F	8	Y
HDA-1508AF	8	N

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DDA-108F DIGITAL DISTRIBUTION AMPLIFIER



BACK PANEL

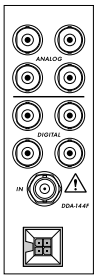
FEATURES

- *Eight outputs*
- *Single terminated input*
- *Dynamic equalization display*
- *High quality output signal*
- *Multi-standard*

SPECIFICATIONS: VIDEO

FORMAT COMPATIBILITY:
SMPTE 259M ITU-R BT.601/656
SERIAL COMPONENT:
NTSC 143 Mb/s & PAL 177 Mb/s
SERIAL COMPOSITE:
DTV 360 Mb/s
INPUT:
75Ω BNC, internally terminated
INPUT RETURN LOSS:
≤-18 dB from 5 MHz to 360 MHz
INPUT LEVEL:
800 mV p-p ±10%
INPUT CABLE EQUALIZATION:
Automatic equalization for up to 300m of 8281 @ 270 Mb/s
OUTPUT CONNECTORS:
8 BNC
OUTPUT IMPEDANCE:
75Ω source terminated
OUTPUT LEVEL:
800 mV p-p ±10% with 75Ω resistive load
DC OFFSET:
0V ±0.5V (per SMPTE 259M)
RISE AND FALL TIME:
500-1500 ps nominal measured at 20% to 80% points
THROUGHPUT DELAY:
1.5 ns typical
STANDARDS AVAILABLE:
525 and 625

DDA-144F SERIAL DIGITAL DISTRIBUTION AMPLIFIER WITH ANALOG COMPOSITE MONITOR OUTPUTS



BACK PANEL

FEATURES

- *Four component serial digital video outputs*
- *Serial reclocked digital processing*
- *Four composite analog video monitoring outputs (NTSC or PAL)*
- *Front panel LED equalization indicators*

SPECIFICATIONS: VIDEO

FORMAT COMPATIBILITY:
SMPTE 259M, ITU-R BT.601/656 Serial Component (270 Mb/s, 525/625 line)
INPUT:
75Ω BNC, internally terminated
INPUT RETURN LOSS:
≤-18 dB to 270 MHz
INPUT LEVEL: 800 mV p-p ±10%
INPUT CABLE EQUALIZATION:
Automatic equalization for a minimum of 200m of 8281
OUTPUT CONNECTORS: 8 BNC
OUTPUT FORMAT COMPATIBILITY:
4 component serial digital (270 Mb/s, 525/625 line)
4 composite analog (NTSC/PAL, input dependent)
OUTPUT IMPEDANCE:
75Ω, source terminated

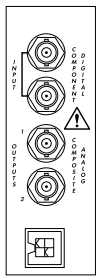
ANALOG OUTPUTS

DIFFERENTIAL GAIN: ≤1.5%
DIFFERENTIAL PHASE: ≤1.5°
FREQUENCY RESPONSE:
±0.25 dB to 4.5 MHz
OUTPUT LEVEL:
1V p-p ±1%, internally adjustable
SC/H PHASE: 0° ±10°
RETURN LOSS: ≤-40 dB
CHROMA-LUMA DELAY: <10 ns
DC OFFSET: 0V ±100 mV

DIGITAL OUTPUTS

DC OFFSET: 0V ±0.5V
RISE AND FALL TIME:
0.4 - 1.5 ns nominal measured from 20% to 80% points
THROUGHPUT DELAY:
15 ns nominal
OUTPUT LEVEL:
800 mV p-p ±10%
RETURN LOSS: ≤-15 dB
STANDARDS AVAILABLE:
525 and 625

VMA-10F VIDEO MONITORING ADAPTER



BACK PANEL

FEATURES

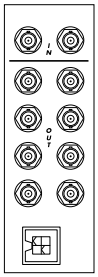
- *Two composite analog outputs*
- *Single, serial digital component video looping input*
- *Low-cost D/A conversion*
- *Multi-standard*

SPECIFICATIONS: VIDEO

FORMAT COMPATIBILITY:
SMPTE 259M, ITU-R BT.601/656 Serial Component (270 Mb/s, 525/625 line)
INPUT:
BNC Hi-Z, looping
INPUT RETURN LOSS:
≤-18 dB to 270 MHz
INPUT LEVEL:
800 mV p-p ±10%
INPUT CABLE EQUALIZATION:
Automatic equalization for up to 300m of 8281
OUTPUTS:
2 composite analog (NTSC/PAL, input dependent)
OUTPUT IMPEDANCE:
75Ω, source terminated
OUTPUT LEVEL:
1V p-p nominal
FREQUENCY RESPONSE:
±1 dB to 5 MHz
DIFFERENTIAL GAIN:
≤2.0%
DIFFERENTIAL PHASE:
≤1.5°
STANDARDS AVAILABLE:
525 and 625
Supports NTSC and NTSC-J

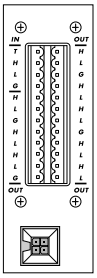
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VDA-18F VIDEO DISTRIBUTION AMPLIFIER



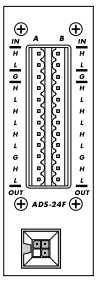
BACK PANEL

ADA-18F AUDIO DISTRIBUTION AMPLIFIER



BACK PANEL

ADS-24F STEREO AUDIO DISTRIBUTION AMPLIFIERS



BACK PANEL

FEATURES

- *One looping video input*
- *Eight video outputs*
- *Output gain adjustment*
- *Cable equalization adjustment*

SPECIFICATIONS: VIDEO

INPUT:
1 Hi-Z looping
OUTPUTS: 8
CONNECTORS: BNC
INPUT RETURN LOSS:
≤-40 dB to 5 MHz
MAXIMUM INPUT LEVEL:
2V p-p
OUTPUT IMPEDANCE:
75Ω, source terminated
MAXIMUM OUTPUT LEVEL:
2V p-p, 75Ω load
GAIN:
Continuously adjustable from –3 dB to +3 dB
FREQUENCY RESPONSE:
±0.25 dB to 5 MHz
+0.25 dB, –2 dB to 10 MHz
CABLE EQUALIZATION:
Adjustable for up to 1000 feet of 8281
DIFFERENTIAL GAIN: <0.1%
DIFFERENTIAL PHASE: <0.1°
TILT: <1% maximum
OVERSHOOT AND RINGING:
<1% maximum
OUTPUT ISOLATION:
>40 dB to 5 MHz at full load
DC OFFSET:
0V ±100 mV
THROUGHPUT DELAY:
12 ns typical
STANDARDS AVAILABLE:
NTSC and PAL

FEATURES

- *One balanced audio input*
- *Eight balanced audio outputs*
- *Output gain adjustment*

SPECIFICATIONS: AUDIO

INPUT:
1 balanced or unbalanced
OUTPUTS: 8
CONNECTORS:
2 detachable connectors
INPUT IMPEDANCE:
600Ω or Hi-Z, selectable termination
MAXIMUM INPUT LEVEL:
+24 dBm balanced
CMRR:
>90 dB @ 60 Hz, >80 dB @ 20 kHz
OUTPUT IMPEDANCE:
<50Ω
MAXIMUM OUTPUT LEVEL:
+24 dBm balanced
GAIN:
—6 dB to 15 dB or +12 dB to +33 dB user selectable via jumper
FREQUENCY RESPONSE:
±0.05 dB, 20 Hz to 20 kHz
±0.25 dB, 10 Hz to 50 kHz
THD:
<0.01%
NOISE: >90 dB, 20 Hz to 20 kHz
HUM: >80 dB
OUTPUT ISOLATION:
>60 dB, 20 Hz to 20 kHz
ISOLATION BETWEEN MODULES:
>100 dB

FEATURES

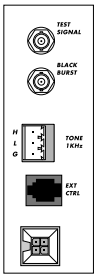
- *One stereo audio input*
- *Four stereo audio outputs*
- *Common gain adjustment for left and right channels*
- *Separate channel balance adjustment*

SPECIFICATIONS: AUDIO

INPUTS:
Two balanced or unbalanced inputs
OUTPUTS:
4 stereo outputs, balanced or unbalanced
CONNECTORS:
2 detachable connectors
INPUT IMPEDANCE:
Hi-Z
MAXIMUM INPUT LEVEL:
+24 dBm balanced
CMRR:
>80 dB @ 60 Hz,
>75 dB @ 20 kHz
OUTPUT IMPEDANCE:
<50Ω
MAXIMUM OUTPUT LEVEL:
+24 dBm balanced
GAIN:
–6 dB to +33 dB
NOISE:
>85 dB, 20 Hz to 20 kHz
FREQUENCY RESPONSE:
±0.05 dB, 20 Hz to 20 kHz
±0.25 dB, 10 Hz to 50 kHz
THD:
<0.01%
INTERMOD DISTORTION:
<0.02%
INTERCHANNEL CROSSTALK:
>90 dB
ISOLATION BETWEEN MODULES:
>100 dB
CHANNEL PHASE MATCHING:
<100 ns

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VSG-21F COLOR SYNC REFERENCE SIGNAL GENERATOR



BACK PANEL

FEATURES

- *SMPTE color bars*
- *FCC Multiburst*
- *10-Step modulated stairstep*
- *10-Step stairstep*
- *Continuous blackburst output*
- *+4 dBm 1 kHz tone output*

SPECIFICATIONS: CONTINUOUS OUTPUTS

BLACKBURST: (Color Black)
One isolated output, BNC. Digitally generated RS-170M composite video containing composite sync, burst and 7.5 IRE (nominal) black level
AMPLITUDE: 47.5 IRE ±1 IRE
DC OFFSET: 0V ±100 mV
RESIDUAL SUBCARRIER: ≤1 IRE

AUDIO

One balanced output via detachable connector
FREQUENCY:
1 kHz, ±5%, sine wave
LEVEL:
+4 dBm, ±0.5 dB (internally adjustable)
IMPEDANCE: 600Ω
THD: ≤1%

SWITCHABLE OUTPUT SMPTE COLOR BARS

Four times subcarrier digitally generated RS-170M SMPTE bar with pluge and I and Q bars.
BAR ACCURACY: within 1°
AMPLITUDE: ≤1%
DC OFFSET: 0V ±50mV
LUMINANCE:
100% white bar, 100 IRE ±1 IRE
RESIDUAL SUBCARRIER: ≤1 IRE
OVER/UNDERSHOOT AND RINGING:
<1% at 1V p-p output

FCC MULTIBURST

REFERENCE BAR AMPLITUDE: 100 IRE
REFERENCE PACKET AMPLITUDE: 60 IRE
BURST FREQUENCIES:
0.5, 1.25, 2.0, 3.0, 3.58 and 4.1 MHz

10-STEP MODULATED STAIRSTEP

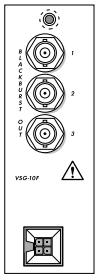
CHROMINANCE AMPLITUDE: 40 IRE

10-STEP STAIRSTEP

Ten equal amplitude steps from 7.5 to 100.0 IRE

STANDARDS AVAILABLE:
NTSC and NTSC-J

VSG-10F NTSC/PAL BLACKBURST GENERATOR



BACK PANEL

FEATURES

- *Three stable blackburst outputs*
- *NTSC or PAL in a single unit*

SPECIFICATIONS: VIDEO

OUTPUTS:
Three analog composite blackburst, NTSC or PAL format (internal jumper selectable)
CONNECTORS:
BNC female
OUTPUT IMPEDANCE:
75Ω nominal
CHROMA SUBCARRIER:
3.579545 MHz, ±10 Hz (NTSC)
4.433619 MHz, ±10 Hz (PAL)
10° to 40°C

OUTPUT LEVEL

NTSC:
Sync: –40 IRE ±1 IRE
Burst: 40 IRE ±1 IRE
Setup: 7.5 IRE ±1 IRE
PAL:
Sync: –43 units ±1 unit
Burst: 40 units ±1 unit
Setup: none

STANDARDS AVAILABLE:
NTSVC and PAL
Supports NTSC and NTSC-J

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OMNIFRAME® SYSTEM - 48V DC VIDEO AND AUDIO

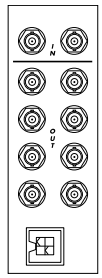
The Videotek VDA-18F/DC Video Distribution Amplifier and the ADS-24F/DC Stereo Audio Distribution Amplifier are both specifically designed for —48 VDC operation and are ideal for telecommunications systems. Each VDA-18F/DC accepts one looping video input and provides eight equalized outputs.

Each ADS-24F/DC accepts a balanced stereo pair input and provides four stereo pair outputs. Each module is directly powered by —48 VDC, which eliminates both the need for common and redundant power supplies, as well as eliminating the single point of failure common to other distribution methods.

This results in a system that is both economical and reliable. Any module can be removed or inserted without interruption of power to other modules.

The OMNIFRAME/DC System Master Chassis accepts ten modules and occupies 3 standard EIA rack units of space (5.25").

VDA-18F/DC ANALOG VIDEO DISTRIBUTION AMPLIFIER



BACK PANEL

FEATURES

- *One looping video input*
- *Eight video outputs*
- *Output gain adjustment*
- *Cable equalization adjustment*
- *Individual —48 VDC regulators*

BENEFITS

- *Ease of system installation*
- *High capacity per module*
- *Compensation for cable length*
- *Eliminates single point of failure*

SPECIFICATIONS: VIDEO

INPUTS:
1 Hi-Z looping

OUTPUTS: 8

CONNECTORS: BNC

INPUT RETURN LOSS:
≤-40 dB to 5 MHz

MAXIMUM INPUT LEVEL:
2V p-p

OUTPUT IMPEDANCE:
75Ω, source terminated

MAXIMUM OUTPUT LEVEL:
2V p-p, 75Ω load

GAIN:
Continuously adjustable from —3 dB to +3 dB

FREQUENCY RESPONSE:
±0.25 dB to 5 MHz
+0.25 dB, –2 dB to 10 MHz

CABLE EQUALIZATION:
Adjustable for up to 1000 ft. of 8281

DIFFERENTIAL GAIN: <0.1%

DIFFERENTIAL PHASE: <0.1°

TILT: <1% maximum

OVERSHOOT AND RINGING:
<1% maximum

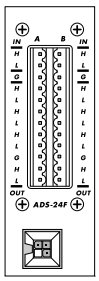
OUTPUT ISOLATION:
>40 dB to 5 MHz at full load

DC OFFSET:
0V ±100 mV

THROUGHPUT DELAY:
12 ns typical

STANDARDS AVAILABLE:
NTSC and PAL

ADS-24F/DC ANALOG STEREO AUDIO DISTRIBUTION AMPLIFIER



BACK PANEL

FEATURES

- *One stereo input, four stereo outputs*
- *Common gain adjustment for left and right channels*
- *Separate channel balance adjustment*
- *Individual —48 VDC regulators*

BENEFITS

- *Flexible system level settings (individual or combination)*
- *High capacity per module*
- *Eliminates single point of failure*

SPECIFICATIONS: AUDIO

INPUTS:
Two balanced or unbalanced

OUTPUTS:
Four stereo
balanced or unbalanced

CONNECTORS:
2 detachable connectors

INPUT IMPEDANCE: Hi-Z

MAXIMUM INPUT LEVEL: +24 dBm

CMRR:
>80 dB, 20 Hz to 20 kHz

OUTPUT IMPEDANCE: <50Ω

MAXIMUM OUTPUT LEVEL:
+24 dBm balanced

GAIN:
—6 dB to +33 dB

NOISE:
<93 dB, 20 Hz to 20 kHz
reference +8 dBm

FREQUENCY RESPONSE:
±0.05 dB 20 Hz to 20 kHz
±0.25 dB 10 Hz to 50 kHz

THD: <0.01%

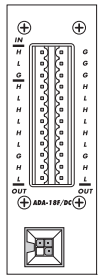
INTERMOD DISTORTION: <0.02%

INTERCHANNEL CROSSTALK:
>90 dB

ISOLATION BETWEEN MODULES:
>100 dB

CHANNEL PHASE MATCHING:
<150 ns

ADA-18F/DC ANALOG AUDIO DISTRIBUTION AMPLIFIER



BACK PANEL

FEATURES

- *One balanced audio input*
- *Eight balanced audio outputs*
- *Output gain adjustment*
- *Individual —48 VDC regulators*

BENEFITS

- *Flexible system level settings (individual or combination)*
- *High capacity per module*
- *Eliminates single point of failure*

SPECIFICATIONS: AUDIO

INPUTS:
One balanced or unbalanced

OUTPUTS:
Eight balanced or unbalanced

CONNECTORS:
2 detachable connectors

INPUT IMPEDANCE: Hi-Z

MAXIMUM INPUT LEVEL: +24 dBm

CMRR:
>80 dB, 20 Hz to 20 kHz

OUTPUT IMPEDANCE: <50Ω

MAXIMUM OUTPUT LEVEL:
+24 dBm balanced

GAIN:
—6 dB to +33 dB

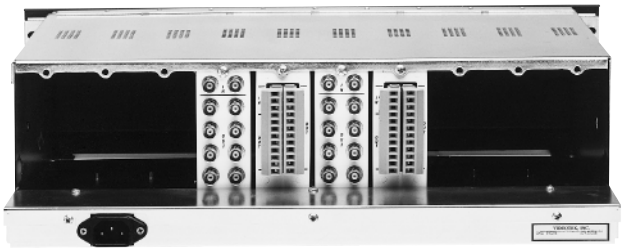
NOISE:
<93 dB, 20 Hz to 20 kHz
reference +8 dBm

FREQUENCY RESPONSE:
±0.05 dB 20 Hz to 20 kHz
±0.25 dB 10 Hz to 50 kHz

THD: <0.01%

ISOLATION BETWEEN MODULES:
>100 dB

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MASTER CHASSIS **BACK PANEL**
(Shown with optional modules installed)

FEATURES

- *Accommodates up to ten modules*
- *AC bus delivers power to each module*
- *Hinged, removable front panel with module identification label*
- *Allows for unlimited mix of modules in a single frame*

BENEFITS

- *EFFICIENT: Mix video and audio distribution amplifiers plus sync and test signals in one OMNIFRAME. Saves valuable rack space and having to buy multiple frames. Up to 80 audio and/or video outputs in one OMNIFRAME*
- *HIGH SPECIFICATIONS: Minimal degradation of distributed signals*
- *RELIABLE: Self-contained power supplies. No single point of failure as with common power supply frames*

SPECIFICATIONS:

POWER

INPUT:
90-132, 180-264 VAC, 50/60 Hz
CONNECTOR:
Per IEC-320
CORD:
3-wire detachable

MECHANICAL

DIMENSIONS:
Height: 5.25"(13.4 cm)
Width: 19"(48.3 cm)
Depth: 12.1"(30.8 cm)
WEIGHT:
11.8 lb (5.4 kg) (without modules)

STANDARD ACCESSORIES

Operation & Service Manual
Power Cord

OPTIONS

XC-OF:
Extender cable for servicing OMNIFRAME modules
RB-OF:
Back Support Kit which provides additional frame support by attaching to back rack rails. Recommended for ENG & SNG vehicles

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