PHASE | VISLINK:
Transmissores Veiculares

- **Newsnet**.....p. 2
- **PTX-PRO** Transmitter.....p. 5
- **DVE5150** Series H.264 Encoders.....p. 7
- **DVE5100** SD & HD Exciter with IP Streaming.....p. 9

VISLINK | be there

vislinknewsnet

taking your studio to the scene

A new wireless communications solution designed specifically for Electronic News Gathering (ENG)

Vislinknewsnet extends the studio network to the field. We understand:

- Your studio has multiple cameras, so
  newsnet has multiple feeds per truck and multiple trucks per sector
- You edit finished content in the studio, so
  newsnet provides full access to all studio resources while, in the field and a MAM accessible return path
- You have controls like tally and voice circuits, so
  newsnet provides vendor agnostic IP communications to the truck
- Your creative staff can't be microwave experts, so
  newsnet includes apps and intuitive interfaces to guide setup

Ensure the right content gets priority, by using an uncontested, bi-directional IP connection over your existing BAS channel, with feedback from studio automation. Newsnet provides you with the confidence and dependability required for an increasingly competitive news industry.

Placing control of field communications firmly back in your hands, newsnet takes your studio to the scene, transforming the effectiveness of ENG operations.

vislinknewsnet connect

Capability where you want it

- Bi-directional high-speed IP wireless data link utilizing your BAS spectrum that you can rely on, without fear of contention, congestion or blocking
- Low latency, high bandwidth connections ensuring high quality live video capability
- Huge datarate increases, using MIMO uplink and downlinks, combined with adaptive modulation
- Flexible uplink/downlink rates using automation driven link prioritization
- Support for multiple assets in the same sector contributing at the same time
- Bonded cellular and satellite to complement sector coverage
- Apps to easily set up microwave links

vislinknewsnet control

Control to make the hard work easier

- Manages the radio network to provide dependable links
- Prioritizes video and data bandwidth based on studio systems feedback
- Dedicated screens for monitoring and control for the gallery
- Intuitive drill-down map based user interface, showing deployed assets and infrastructure, with graphical control and monitoring of the whole system
- Additional security for remote connections built on top of studio network security

vislinknewsnet service

Customer Operations tailored to your ENG needs

- Flexible implementation delivers a system to suit your existing and evolving workflow
- Planned installation and commissioning to minimize disruption and cost
- Dedicated services team who can access the system, diagnose and fix configuration issues and walk through problems
- Proactive issue resolution and preventative maintenance
- Tailored learning solutions for creative staff, news operations and engineers

PTX-PRO

Transmitter

The PTX-PRO is the ideal solution for portable, mobile, or airborne applications. The PTX-PRO Transmitter Unit is a versatile portable transmitter featuring user selectable choices of FM and COFDM Modulation with SD/HD MPEG Encoding. Built in universal AC and DC power supplies provide full flexibility in choosing power sources.

The PTX-PRO accepts SDI or HD-SDI, ASI, or video analog inputs. The integrated MPEG-2 Encoder can support both SD and HD.

The PTX-PRO is controlled using a single front panel combination push button rotary switch. Operating parameters can be easily read from the front panel display.

From a PC or laptop, use the PTX-PRO Configurator Software to create, modify, and store configuration "presets" to be instantaneously recalled using the transmitter's front panel switch. The PTX-PRO Configurator stores multiple sets of presets.

The PTX-PRO uses a standard Type "N" RF connector providing for cabled or direct mounted antennas. The optional Twist Lock Adapter mounts over the RF connector to let you easily install or remove a variety of Parabolic or MegaHorn antennas, eliminating the need for coaxial interconnecting cables.

For high power applications, the PTX 2 GHz High Power Unit (HPU) can be mounted with the PTX-PRO, giving you 12 watts analog, 4 watts digital power.

HD/SD Transmitter 2, 7, 2/7 & 13 GHz
FM Video & Audio - MPEG & COFDM

BENEFITS

- Frequency bands:*
  - 1.9 to 2.5 GHz
  - 6.4 to 7.1 GHz
  - 6.9 to 7.5 GHz
  - Dual 2/7 GHz
  - 12.7 to 13.2 GHz

*Consult factory for different frequency options

- Digital or Analog/Digital Switchable
- Simplified Controls using Front Panel Display with Single Rotary/Push Button Switch
- 9 Programmable Configuration Presets store multiple programmed preset configurations
- Color Bar with Service Name ID Generator (digital only)
- FM Modulation
- Analog Video/Audio Modulation - NTSC or PAL
- 4 Audio Channels
- 3/4 MHz Peak Video Deviation

Key Features

- Fully Integrated 'Single Box' Transmitter
- Built in Power Amplifier
- Built in AC/DC Power Supplies - User Selectable
- Compact
- Tripod or Rack Mountable

Typical Applications

- Portable and Fixed Point to Point Microwave
- Quick Deploy, Medium Range Transmissions

SPECIFICATIONS

VISLINK

MODULATION
- COFDM (ETSI EN 300 744)
- DVB-T 2K-carriers
- LMS-T
- 12/25 MHz Channels
- FM Video with FM audio subcarriers

ANALOG DEVIATION
2 GHz BAS Band
- 17 MHz channel plan: 4.0 MHz peak
- 12 MHz channel plan: 3.0 MHz peak

2.45 GHz BAS and ISM Band
- 17 MHz Channels: 4.0 MHz peak

7 GHz Band
- 25 MHz Channel Plan:4.0 MHz peak

13 GHz Band
- 25 MHz Channel Plan:4.0 MHz peak

FM AUDIO SUBCARRIER SELECTION
2 GHz BAS / 7 GHz Band / 13 GHz:

17 MHz channel plan:
- 4.83, 5.2, 5.8, 6.2, 6.8, 7.02, 7.5, 8.065 MHz

12 MHz channel plan:
- 4.83 and 5.8 MHz

2.5 GHz BAS and ISM Band:
- 17 MHz channels: 6.2 and 6.8 MHz

OPERATING MODES
Modulation
- FM (Analog)
- COFDM, QPSK, 16QAM, 64QAM (Digital)

Auto Standby (3 modes)
- Auto - standby not activated
- Color bars inserted with no video
- RF standby with no video signal

MPEG ENCODING
SD Inputs
- Composite NTSC/PAL, and SDI per SMPTE 259M in field or frame based formats, with embedded audio support and audio de-embedding

HD inputs
- HD-SDI per SMPTE 292M in field or frame based formats with support for embedded AES3 per SMPTE 299M, including SMPTE 337M data in the AES3.

VBI
- Close-caption support, line extraction mode,extended picture mode, VITC support

Encoding
- BISS 1 & E

Video Encoding:
- All selectable via control/monitor interface
- All with support for 4:3 or 16:9 aspect ratios

	Standard
SD	4:2:0 MP@ML
	4:2:2 P@ML
HD	4:2:0 MP@HL
	4:2:2 MP@HL

Resolution (HxVx frame rate)

Resolu-tion	Resolution	Frame Rate
SD	720 x 480	29.97
	720 x 576	25
HD (Optional)	1280x720p	50/59.94/60
	1920x1080i	25/29.97/30
	1920x1080p	25/30

AUDIO ENCODING
- One stereo pair/ dual mono channels
- (optional: 2 pair) per MPEG Layer II audio encoding standard

Encoding Rates
- 32 to 384 kbps/ channel

Sampling rates
- 48 kHz
- Support for Dolby Digital AC-3 pass-thru
- Support for SMPTE 305M AES3
- Support for SMPTE 299M

Options
- BISS-1 or BISS-E Encryption
- Antenna Twist Lock Adapter

WAYSIDE CHANNEL
- Embedded data channel on MPEG Module (uses connections on the RS-232 port for DCE Data Path)

Data Rate
- 1200, 2400, 4800, 9600, 19200, 38400

POWER REQUIREMENTS
DC Input
- +11 to +36 VDC

AC Input
- 90 to 264 VAC @ 50/60 Hz

Power consumption:
- 52 watts (typical)

PHYSICAL
Dimensions
- 9.25" W, 4.0" H, 12.0" D

Weight:
- 2 & 7 GHz, 20.4 lbs [9.25 kg]
- 2/7 & 13 GHz, 21.0 lbs [9.53 kg]

Operating Temperature Range
- –20° C to +50° C

Operating Rel. Humidity
- 95% @+10° C to +40° C

Operating Altitude
- 15,000 ft. above sea level

POWER OUTPUT

Frequency Modulation (GHz)		Standard/HI Power	
		Watts	dBm
1.9 to 2.5	FM	2 / 12	33/41
	Digital	1/8	30/39
6.4 to 7.1 6.9 to 7.5	FM	2	33
	Digital	1/4	30/36
13	FM	1.6	32
	Digital	.8	29

Note: RF Power Output is dependent on digital modulation selected. High power version does not include AC power supply.

REAR PANEL CONNECTIONS
RF Output
- N type

RS-232 Communication Port
- 9–Pin "D" Connector

Audio Input 3 & 4
- 10-pin Circular

Power on Coax (HPU)
- ON/OFF

FRONT PANEL CONNECTIONS
Signal Input, Monitor, ASI/SDI Input
- BNC

AC/DC Power Input
- 12–Pin Circular

Audio Input 1 & 2
- XLR (Qty 2)

SDI/HD/SD Input
- BNC

CONTROLS & INDICATORS
Rotary Channel Select Switch
- 1–14

Rotary Channel Offset Switch
- +.–,0

Push/Rotary
- Control Switch

LED Indicators:
- Power ON/OFF,
- Transmit (XMIT) ON/OFF

ACCESSORIES
- 2 GHz PTX High Power Unit (HPU)
- Standard or Airborne Remote Control Panel (Serial Interface)
- Medium or Heavy Duty Tripod

CONTROLS & DISPLAYS
Controls
- Preset, Channel/Offset, TX Attenuation

Displays
- Analog (FMT): Preset. Frequency, Mode, Audio Channel Frequency, Video Deviation, CW Tone, Error Report
- Digital (MPEG/COFDM): Preset. Frequency, Mode, Modulation, Bandwidth, FEC, Guard Interval, Video Delay, Audio Mode, CW Tone, Error Report, RF Power Out

PTX-PRO CONFIGURATOR SOFTWARE
(RS-232 connection to PC or laptop)

Menus
- Main: Connect to Radio, Load Presets, Save Presets, Select Module Options,Program Radio, Upload Radio Settings
- Radio: Operating Mode, Color Bars, CW Tone, Transmitter Attenuation
- COFDM: Modulation, FEC, Bandwidth, Guard Interval
- MPEG: ASI Bit Rate, Wayside Baud Rate. Chroma, Delay Mode, BISS Key/ID, Audio Type, Audio Mode, Audio Input
- FMT: Audio Channel Frequency (4), Pre-Emphasis, Video Deviation
- Channel Plan: Select Frequency +/– Offset, Clear Channel Plan, Load Default FCC Plan, Load Channel Plan, Save Channel Plan

ANTENNAS
- 2, 3, or 4 foot parabolic: (4ft requires L-Bracket & heavy duty tripod, 2 and 3 foot require Twist Lock Adapter)
- MegaHorn (Requires Twist Lock Adapter)
- OmniDirectional - Coaxial cable connection to "N" connector

11/13 ENG
RD001108 Rev 3

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VISLINK

DVE5150

Series H.264 Encoders

Vislink's established lightweight, compact, 1U half rack electronics packages are ideally suited for flyaway or vehicle mounted solutions, where weight and space are at a premium. The 5000 series of electronics can be packaged in different lightweight, ruggedised canvas flight cases, depending on units selected and system configuration.

- Compact 1/2 width 1U rack mountable units
- Designed for contribution flyaway and DSNG vehicle applications where space and weight are critical
- Full range of units available:
  - SD and HD Digital Video Exciter
  - IP Modem
  - Multiplexer Router
  - BUCS
  - Antenna and Drive Control units
  - System IRD / Redundancy controllers
  - Protection Switches
  - L Band over fibre modems
  - Diversity Receivers
- All units field upgradable
- All units have integral web browser facility (where applicable) for RC&M applications
- A comprehensive range of flight case solutions
- All units can also be fixed together and mounted in a standard 19" flight case or rack within a vehicle

Compact H.264 Digital Video Encoder – DVE5151
with optional second encoder – DVE5152
or integrated COFDM MaxRC diversity receiver – DVE5174

FEATURES

- DVE5151 is a Standard Definition & High Definition H.264 video encoder
- DVE5152 is a dual Standard Definition & High Definition H.264 video encoder
- 2 pairs of audio channels from embedded SDI
- BISS1 / E conditional access
- Low delay H.264 Encoding (20mS) with Vislink decoder
- SNMP control
- IP Streaming output allowing encapsulation of up to 2 ASI signals
- IP input with de-capsulation of one of two IP video signals
- Field upgrade by USB memory stick
- IP data extraction from ASI / Demodulator

Key Features

- 1/4 of the size and 1/6th of the weight of competitors equivalent products
- HD & SD H.264 4:2:0/4:2:2 encoding
- Remote control via web browser

Typical Applications

- Event Coverage
- Newsgathering
- Sports Coverage
- Secure SatCom

SPECIFICATIONS

VISLINK

HARDWARE OPTIONS

- DC Power option
- Second encoder - DVE5152
- Integrated 4-way diversity demodulator - DVE5174

VIDEO PARAMETERS

Inputs

- HD–SDI / SDI: SMPTE 292M SMPTE 259M / ITU–R BT.656 with embedded audio

Video Encoding (H.264)

SD

- 420HP@L3 0.5 – 25Mbits
- 422HP@L3 2 – 25Mbits

HD

- 420HP@L4 1 – 41Mbits
- 422HP@L4 1 – 41Mbits

HD Resolutions

- HD 1080i/60
- HD 1080i/59
- HD 1080i/50
- HD 1080i/60
- HD 720p/60
- HD 720p/50

SD Resolutions

- 480 x 720 NTSC
- 480 x 704 NTSC
- 576 x 720 PAL
- 576 x 704 PAL

Latency (encoding)

- H.264 20mS in low delay mode

Scrambling

- BISS 1 & E Encryption3

IP VIDEO TRAFFIC INTERFACE

- Type: 10 / 100 / 1000 Base–T Ethernet

Protocol

- IEEE802.3 Ethernet
- Encapsulation for ASI – RTP (RFC 2250), ARP, IPv4, IGMPv2/3, TCP/UDP

FEC

- Pro–MPEG Forum Code of Practice #3 release 2 (CoP3) / SMPTE 2022–2007 (Columns and Rows)
- 1–7 TS packets per IP packet (configurable) with L&D following the range:
  - L*D < 100
  - 1 < L < 20
  - 4 < D < 20

Total Bitrate

- Max 100 Mbit/s *(this is for a max of 4 ASI's)*
- 1000 Base–T Ethernet
- Ethernet MTU Length: Max 1500 bytes (IPv4)

AUDIO PARAMETERS

Inputs

- 2 stereo pairs
- Dolby E pass through / AC3 pass through

AUDIO PARAMETERS PERFORMANCE CONNECTORS

(HD) SDI

- 75Ω BNC female

ASI IN

- 75Ω BNC female

ASI out

- 75Ω BNC female

Remote / Status

- 15W D type female
- USB for field upgrades

Ethernet / Web Interface

- RJ45 10 / 100 / 1000 Base–T

USER CONFIGURABLE NETWORK & MULTICAST PARAMETERS

Source IP address:

- IP, Subnet mask, Gateway

Destination IP address:

- Unicast & Multicast

UDP Ports:

- User definable

PERFORMANCE

THD

- <0.1% +18 dBm max input level

S/N

- >66 dB RMS

Frequency response

- =20 Hz–20 KHz +/– 0.5dB
- Crosstalk better than 60 dB

Encoding

- MPEG1 Layer 2 128 kbs / 256kbs / 384 kbs / channel (Audio A & B)
- SMPTE 302 2.4MB/s / Dolby E & AC3 pass through (Audio B only)

Remote Control

- Ethernet: Web browsers / SNMP

Web Browser

- Supporting Internet Explorer 7, 8 & 9. Firefox, Safari and Opera

ENVIRONMENT & PHYSICAL

Temperature

- Operational: 0°C to +50°C (32°F to 122°F)
- Storage: –20°C to +70°C (–4°F to 158°F)

Size

- 210mm wide by 350mm deep (8.27" wide by 13.78" deep)
- 1U half rack width

Weight

- <1.5kg approx (4 lbs)

POWER

Frequency

- 47 to 63 Hz @ <50W

Operating voltage

- 100 to 240 Vac +/– 10%

07/15 ABC
RD001871 Rev 1

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VISLINK

DVE-5100

SD & HD Exciter with IP Streaming

5000 SERIES OVERVIEW

Advent's established lightweight, compact, 1U half rack electronics packages are ideally suited for flyaway or vehicle mounted solutions, where weight and space are at a premium. The 5000 series of electronics can be packaged in different lightweight, ruggedised canvas flight cases, depending on units selected and system configuration.

- Full range of units available:0
  - SD and HD Digital Video Exciter
  - IP Modem
  - Multiplexer Router
  - BUCS
  - Antenna and Drive Control units
  - System IRD / Redundancy controllers
  - Protection Switches
  - L Band over fibre modems
- All units field upgradeable
- All units have integral web browser facility (where applicable) for RC&M applications
- A comprehensive range of flight case solutions for 1/2 rack and 19" rack units to suit system configuration, i.e. 3U, 4U, 5U
- All units can also be fixed together and mounted in a standard 19" flight case or rack within a vehicle

BENEFITS

- SD & HD MPEG encoder with integrated L Band modulator
- Integrated HPA controller supporting a wide range of TWTA / SSPA's
- HPA control via L Band cable or direct connection
- SD & HD MPEG-2, 4:2:0/4:2:2 encoding
- L Band monitor

Digital Video Encoder with Integral Modulator
Compact, Lightweight 1/2 width rack unit

- Integral L Band combiner for external L Band carrier addition
- DVB-S QPSK, 8PSK, 16QAM
- DVB-S2, QPSK, 8PSK, 16 & 32 APSK
- 70MHz output option
- DVB-T/LMS-T COFDM option for IF output
- 8 audio channels (2 pairs of analogue/AES)
- Dolby E auto aligner and pass thro'
- BISS1 / E conditional access
- Low delay MPEG-2 Encoding (50 mS)
- ASI output only (Encoder) version available
- 19" 1U HD SHF solution available with AUC5000 series
- Remote control via web browser
- SNMP control
- IP Streaming output allowing encapsulation of up to 2 ASI signals
- IP input with de-capsulation of one of four ASI signals, for multiplexing and/or modulation
- Field upgrade by USB memory stick

Key Features

- Compact 1/2 width 19" x 1U rack mountable units
- 1/4 of the size and 1/6th of the weight of competitors equivalent products
- Designed for contribution flyaway and DSNG vehicle applications where space and weight are critical

Typical Applications

- Typical Solutions
- Event Coverage
- Newsgathering
- Sports Coverage
- Maritime Reconnaissance
- Secure SATCOM

SPECIFICATIONS

VISLINK

RF PARAMETERS

Output Frequency Range
- L Band 950 to 1750 MHz stepsize 1KHz
- (70MHz option)

Frequency Stability
- +/– 2 x 10 e – 8
- (10 MHz reference option)

Output Power Level
- L Band –5 /+5 dBm

Gain Adjustment
- 40 dB min

Gain Variation
- +/– 2 dB full band +/– 0.25 dB 24hr @ constant temperature

Spurious
- –70 dBc / 4 KHz

L Band Monitor
- Monitor Level –20 dBc

L Band Combiner
- Combing ratio 5 dB +/–2

Modulation
- QPSK 1 – 36 Msymb/s Option: 8PSK / 16QAM / 64QAM / DVB–S2 DVBS, DVB–S2, DVB–T 1–45 Msymb/s

FEC

DVBS QPSK
- FEC rates 1/2, 2/3, 3/4, 5/6, 7/8

DVBS 8PSK
- FEC rates 2/3

DVBS 16QAM
- FEC rates 3/4

DVB–T QPSK, 16QAM, 64QAM
- FEC rates 1/2, 2/3, 3/4, 5/6, 7/8

DVBS–2 QPSK
- FEC rates 1/4, 1/3, 2/5, 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10

DVBS–2 8PSK
- FEC rates 3/5, 2/3, 3/4, 5/6, 8/9, 9/10

DVBS–2 8PSK 16/32 APSK
- FEC rates 3/5, 2/3, 3/4, 5/6, 8/9, 9/10

VIDEO PARAMETERS

Inputs
- HD–SDI / SDI: SMPTE 292M SMPTE 259M / ITU–R BT.656 with embedded audio
- SD version, composite PAL/ NTSC
- Video Encoding (MPEG2)

SD
- 420MP@ML 1.5 – 15Mbits
- 422MP@ML 2 – 50Mbits

HD
- 420MP@HL 8 – 80Mbits
- 422MP@HL 8 – 80Mbits

HD Resolutions
- 1080psf30 / 1080psf29 / 1080psf25 / 1080psf24 / 1080psf23 / 1080p/30 / 1080p/29 / 1080p/25 / 1080p/23 / 1080i/60 / 1080i/59 / 1080i/50 / 1080i/60 / 720p/60 / 720p/50

SD Resolutions
- 480 x 720 NTSC
- 480 x 704 NTSC
- 576 x 720 PAL
- 576 x 704 PAL

Delay (encoding)
- Typically less than 50ms

Scrambling
- BISS 1 & E Encryption

Data Channel
- RS232 @ 9600 / 19200 / 38400 baud

IP VIDEO TRAFFIC INTERFACE

- Type: 10 / 100 / 1000 Base–T Ethernet

Protocol
- IEEE802.3 Ethernet
- Encapsulation for ASI – RTP (RFC 2250), ARP, IPv4, IGMPv2/3, TCP/UDP

FEC

- Pro–MPEG Forum Code of Practice #3 release 2 (CoP3) / SMPTE 2022–2007 (Columns and Rows)
- 1–7 TS packets per IP packet (configurable) with L&D following the range:
  - L*D < 100
  - 1 < L < 20
  - 4 < D < 20

Total Bitrate
- Max 700 Mbit/s (this is for a mux of 4 ASI's)
- 1000 Base–T Ethernet
- Ethernet MTU Length: Max 1500 bytes (IPv4)

AUDIO PARAMETERS

Inputs
- 2 analogue stereo pairs / 4 mono
- 600 Ω impedance plus 6 channels embedded in SDI / Linear
- PCM, Dolby E pass through with Dolby E autio align

USER CONFIGURABLE NETWORK & MULTICAST PARAMETERS

Source IP address:
- IP, Subnet mask, Gateway

Destination IP address:
- Unicast & Multicast

UDP Ports:
- User definable

Local MAC address:
- User definable

PERFORMANCE

THD
- <0.1% +18 dBm max input level

S/N
- >66 dB RMS

Frequency response
- =20 Hz–20 KHz +/– 0.5dB
- Crosstalk better than 60 dB

Remote Control
- RS 485 2400 – 9600 band
- Ethernet / Web browers / SNMP

Web Browser
- Supporting Internet Explorer 7 & 8, Firefox, Safari and Opera

Encoding
- MPEG1 Layer 2 128 kbs – 384 kbs / channel (Audio A & B & C)
- SMPTE 302 2.4MB/s linear PCM / Dolby pass through (Audios A, B, C & D)
- HPA Control Option
- Integrated HPA controller for RS485 serial controlled TWTA / SSPA – Xicom, CPI, e2V, Paradise supported, others to order
- Control via L Band using AUC5000 series converter or via direct cable connection

CONNECTORS

CVBS
- 75Ω BNC female

(HD) SDI
- 75Ω BNC female

ASI IN
- 75Ω BNC female

ASI / 70MHz out
- 75Ω BNC female

RF Output & Monitor
- 50Ω N–female

Combiner in
- 50Ω TNC female

Audio Input
- 15W D type male breakout to 4 x XLR provided

Data / Remote / Status / HPA Control
- 15W D type female
- 2 x USB for field upgrades

Ethernet / Web Interface
- RJ45 10 / 100 / 1000 Base–T

ENVIRONMENT & PHYSICAL

Temperature
- Operational: 0°C to +50°C(32°F to 122°F)
- Storage: –20°C to +70°C (–4°F to 158°F)

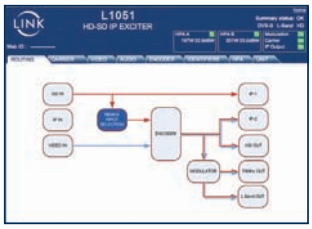
Size
- 210mm wide by 350mm deep (8.27" wide by 13.78" deep)
- 1U half rack width

Weight
- 1.9kg approx (4 lbs)

POWER

Frequency
- 47 to 63 Hz @ <60W

Operating voltage
- 100 to 240 Vac +/– 10%



Web Browser Screenshot showing IP routing configuration

DVE5100 Front Panel

DVE5100 Rear Panel

11/13 ENG
RD001149 Rev 1

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News & Entertainment

TVLogic

Ikegami

everlz

sencore
Where Content Meets Technology

autoscript
a clearer picture

Telemetrics Inc.
Camera Control Systems

interra systems

AVP

Vinten

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thinklogical
Trust Our Proven Ingenuity

CueScript
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SILVUS
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