

ORCA

HD MPEG2 CAPTURE STATION



The ORCA Capture Station is a complete HD MPEG2 record and playback system that supports bit rates up to 160 Mbits/sec. It provides extensive encoding parameter controls and live preview of the encoding process.

The ORCA Capture Station is the first product to combine all the tools for real-time HD MPEG2 processing in one package. In addition it is priced below many HD encode only solutions from other manufacturers.

The system features the ORCA encoder in a Linux package with internal storage and the Nugget decoder.

**Complete HD MPEG2
record and playback system**

**Encode HD-SDI or SDI
at up to 160 Mbits/sec**

**Preview the encoding quality
while recording or after**

**HD-SDI interface
accepts all ATSC formats**

**Supports up to
8 audio channels**

**Provides control of VTRs
and VDRs via P2 protocol**

**Automated encoding using
an edit decision list EDL (option)**

SPECIFICATIONS

VIDEO INPUT

Serial Digital Interface
1.485 Gbits/sec, 1.485/1.001 Gbits/sec, 270 Mbits/sec
NTSC, PAL
720p - 50, 60Hz
1080i / 1080p - 24, 25, 30Hz

AUDIO INPUT

Embedded on Serial Digital Interface
AES/EBU on BNC

VIDEO ENCODING

Bit Rate

MPEG-2 Standard Definition: 2.5 to 50 Mbits/sec
MPEG-2 High Definition: 15 to 160 Mbits/sec

GOP Structure I, IBP, IBBP, IP open or closed

GOP Size Programmable

AUDIO ENCODING

Mode

MPEG1 layer 2 (192Kbps, 256Kbps, or 384Kbps)
Externally compressed (AC3*, DolbyE* or DTS**)
Uncompressed

Sample Rate 48KHz

CONTROL INTERFACE

ORCA Control Panel (Linux Version)
Infrared Remote Control with OSD for Nugget Decoder

VIDEO OUTPUT

All ATSC plus 525/625
DVB/ASI (streams up to 160 Mbits/sec)
Composite
DVI-I (analog & digital RGB)
SDI
HD-SDI

AUDIO OUTPUT

Analog 6 channels (unbalanced)
AES/EBU 6 channels
on a DB25 connector
IEC-958 Audio

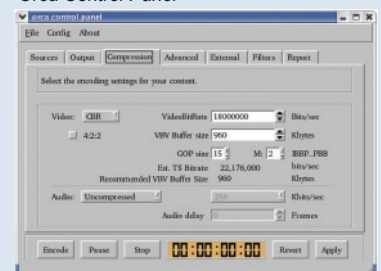
OTHER

LTC Out
Sync In (bi / tri-level)
RS-422 - VTR or VDR control
using P2 protocol
Closed Caption Support
EIA-608/708 Data (Per SMPTE 334M)

GENERAL

100-240VAC 50-60Hz
Encoder Station
3RU - 19 inch (45cm) depth
Nugget Decoder
1RU - 13 inch (33cm) depth

Orca Control Panel



ORDERING INFO

ORCA-CS	Orca Capture Station with Decoder. Up to 80 Mbits/sec
ORCA-CS-Pro	Orca Capture Station with Decoder. Up to 160 Mbits/sec
EDL-ORCA	Edit Decision List option
ORCA Encoder and the Nugget Decoder can be purchased separately	

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