

# WMR-BROADCAST ENCODER



The WMR-Broadcast Encoders are used for the real-time encoding of analog and digital signal sources in WM9/VC-1 streams.

The encoders are available as 1, 2, 4 or 8 channel versions. Depending on the configuration, multibit and Simulstreams can be generated. Encoders with analog, digital and DVB-inputs are at your disposal. The live display can be shown via a standard browser without plug-ins, the MultiViewer or with the Set-top Box X230.

Several or even entire WMR-Broadcast Encoder farms can be controlled and administered remotely and centrally with the XAS-Application Server. In addition, the XAS-Application Server features Multicast operation.

Through the selection of high quality, industrial components and special monitoring software, our encoders are conceived for maximum performance and operational dependability.

## ERC - Encoder Remote Control

All WMR-Broadcast Encoders are serially delivered with Encoder Remote Control (ERC) software which enables the remote configuration and control of individual, several or even entire encoder farms via a standard browser.

## Options

The WMR Encoders can be custom-enhanced by software modules.

- Logo and time/date overlays
- Signal outage recognition and error notification
- MultiViewer for remote live monitoring.
- Multiaudio: up to 8 stereos can be embedded - lip-synchronized - in one stream
- Simultaneous and multistream encoding
- Set-top Box X230 for direct live display of the streams on TV monitors, with remote control

## Live display and remote configuration

- Web interface for player and configuration

## Highlights

- Inputs: analog or digital
- Codec: WM9/VC-1
- Bandwidth, resolution, video and audio quality individually variable
- High operational dependability through crash recovery, Raid, error analysis and automatic error notification per text/email,
- Encoder Remote Control (ERC)
- Browser-based multilevel user administration and remote configuration
- Logo and time stamp
- Video and audio loss detection with signalling
- Set-top Box X230 compatible

# WMR-BROADCAST ENCODER

Article no.	Contents of delivery H.264 based
400042	WMRI-AV/H264 1 channel Broadcast Encoder for one video and stereo audio stream with H.264 codec in WM Container format, full format DI, PAL or NTSC, 1 video input (Composite or S-video) and 1 stereo audio input (RCA), 2x Ethernet Gigabit, operating system Windows XP, cabinet: 19" rack 2 HE, depth 660mm; incl. ERC software
400044	WMRI-SDI/H264 1 channel Broadcast Encoder for one video and stereo audio stream with H.264 codec in WM Container format, Full Format DI, PAL or NTSC, 1 SDI input with embedded audio, 2x Ethernet Gigabit, operating system Windows XP, cabinet: 19" rack 2 HE, depth 660mm; incl. ERC software
Article no.	Contents of delivery WM9/VC-I based
400051	WMRI-AV 1-channel Broadcast Encoder for one video and stereo audio stream on the basis of Windows Media, Full Format DI, PAL or NTSC, 1 video input (Composite or S-video) and 1 stereo audio input (RCA), 2x Ethernet Gigabit, operating system Windows XP, cabinet: 19" rack 1 HE, depth 660mm; incl. ERC software
400052	WMRI-SDI 1-channel Broadcast Encoder for one video and stereo audio stream on the basis of Windows Media, Full Format DI, PAL or NTSC, 1 SDI input with embedded audio, 2x Ethernet Gigabit, operating system Windows XP, cabinet: 19" rack 1 HE, depth 660mm; incl. ERC software
400155	WMRI-HD 1-channel Broadcast Encoder for one video and stereo audio stream on the basis of Windows Media, format 720p, 1 HD-SDI input, 2 SATA hard drives in RAID1 array, 2x Ethernet Gigabit, operating system Windows XP, cabinet: 19" rack 1 HE, depth 660mm; incl. ERC software
400150	WMR2-AV 2-channel Broadcast Encoder for two video and stereo audio streams on the basis of Windows Media, VGA format, PAL or NTSC, 2 video inputs (Composite) and 2 stereo audio inputs (RCA), 2 SATA hard drives in RAID1 array, 2x Ethernet Gigabit, operating system Windows XP, cabinet: 19" rack 3 HE, depth 660mm; incl. ERC software
400160	WMR2-SDI 2-channel Broadcast Encoder for two video and stereo audio streams on the basis of Windows Media, VGA format, PAL or NTSC, 2 SDI inputs with embedded audio, 2 SATA hard drives in RAID1 array, 2x Ethernet Gigabit, operating system Windows XP, cabinet: 19" rack 3 HE, depth 660mm; incl. ERC software
400152	WMR4-AV 4-channel Broadcast Encoder for 4 video and stereo audio streams on the basis of Windows Media, VGA format, PAL or NTSC, 4 video inputs (Composite) and 4 stereo audio inputs (RCA), 2 SATA hard drives in RAID1 array, 2x Ethernet Gigabit, operating system Windows XP, cabinet: 19" rack 3 HE, depth 660mm; incl. ERC software
400153	WMR8-AV 8-channel Broadcast Encoder for 8 video and stereo audio streams on the basis of Windows Media, CIF format, PAL or NTSC, 8 video inputs (Composite) and 8 stereo audio inputs (RCA), 2 SATA hard drives in RAID1 array, 2x Ethernet Gigabit, operating system Windows XP, cabinet: 19" rack 3 HE, depth 660mm; incl. ERC software

## Technical data

### Inputs: 1 - 8

- Analog video, audio, SDI, HD
- TV standard: PAL/NTSC

### IP output

- WMV9/VC-I H.264 (LeadCodec)
- MPEG4 for MultiViewer
- Streaming protocols: HTTP, MMS, RTSP
- Resolution: up to 720x568 pixels and HD 720p
- Audio: Stereo variable to 384kbps
- Unicast operation, up to 20 parallel streams, expandable through XX-Media or XAS-Application Servers
- Multicast operation through XX-Media or XAS-Application Servers
- Dual Ethernet Gigabit port

### Further data

- 19" installation rack with 1 or 3 HE
- WxDxH 483 x 650 x 44/132 mm
- Weight: about 12/24 kilos
- Power supply 100-240VAC, 50/60Hz
- Power consumption - 400/510W
- Ambient temperature 10°C-35°C
- Compability EN 60950, EN55022, EN 55024, EN 6100-3-2/3
- Conformity CE 89336/EEC