

High Resolution Digital Real Time Video Transmission

VTQ O.R.C.A III Broadcast 2-Antenna Diversity Receiver HD

Features

- » **professional 2 antenna diversity receiver**
- » **extreme low delay** (only 5 to 9msec)
- » **H.264 compression** for best video quality
- » **HD ("High Definition")** reception and output
- » different video outputs (SDI, FBAS)
- » audio output as embedded audio or via two analogue audio outputs
- » **bi-directional voice connection** (Intercom) between transmitter and receiver with extended voice button and volume control
- » front panel connectors for headset and voice button
- » integrated loud speaker
- » all connections directly at the device
- » easy operation
- » in 19" housing for rack mounting
- » customised on request

Interfaces

- » SDI output for HD video (embedded audio)
- » 2 mono audio outputs
- » head set connector
- » **bi-directional RS232 interface** for connection of **LANC modules** and for transmission of **camera control protocols**
- » **Tally Light**
- » antennas for video and intercom

Optional functions

- » AES (256Bit) or 3DES (168Bit) encryption
- » second mains adapter for maximum reliability
- » warning LED for faulty mains adapter
- » additional outputs (HDMI, Y/Pb/Pr, Fibre optics)

Possible applications

- » wireless video / audio/ data transmission
- » live events / sport contests / reporting
- » electronic news gathering (ENG)
- » Studio wireless links



TECHNICAL SPECIFICATIONS

HF VIDEO

Frequencies	2.200 - 2.500GHz
	5.725 - 5.875GHz
Tuning step size	2.4GHz: 0.5MHz
	5.8GHz: 1MHz
	(others available)
Frequency stability	±10ppm

DIVERSITY TYPE

Type	2-Antenna Diversity
Method	FFT-MRC
Tuner sensitivity	5.8GHz: -94dB
	2.4GHz: -97dB

HF INTERKOM

Transmission power	25mW (HF)
Frequency	868.0 - 868.6MHz

MODULATION

Modulation	COFDM
Carriers	2k, 8k
Constellation	QPSK, 16QAM, 64QAM
Codec rate	1/2, 2/3, 3/4, 5/6, 7/8
Guard interval	1/32, 1/16, 1/8, 1/4

VIDEO ENCODER

Method	H.264 (Extreme Low Delay)
Video output	SDI

AUDIO

Audio coding	MPEG1
Audio output	Embedded Audio (via SDI)
	2x analog (via Audio 1+2 IN)

SYSTEM

ASI output	optional
Encryption	3DES, AES (optional)
Remote control	RS232

POWER

Power supply	230V AC
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ENVIRONMENTAL

Operating temperature	-5°C - +40°C
Storage temperature	-10°C - +50°C

PHYSICAL CHARACTERISTIC

Dimensions	480 x 300 x 44mm
Weight	4500g

CONNECTORS

HD-SDI OUT	BNC
FBAS OUT	BNC
Audio OUT Ch. 1	3-pol. XLR
Audio OUT Ch. 2	3-pol. XLR
SP-DIF OUT	RCA
Tally	6-pol. HIROSE
LANC	9-pol. Sub-D
RS232	9-pol. Sub-D
Headset	5-pol. XLR
Gen Lock	BNC
Antenna Video	N
Antenna Telemetry	SMA

OPTIONS

Fibre Optic OUT
HDMI OUT
Y / Pb / Pr OUT
2. Netzteil

Technical alterations are subject to change!

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