

NEW ON THE MARKET

## High Resolution Digital Real Time Video Transmission

# VTQ O.R.C.A III Broadcast Mobile Video Transmitter HD

### Features

- » mobile HD Video Transmitter for **professional broadcast applications**
- » **extreme low delay** (only 5 to 9msec)
- » **H.264 compression** for best video quality
- » **HD ("High Definition")** video transmission
- » all **connections directly at the device**
- » easy operation
- » configuration of all functions via buttons and display
- » bright **OLED display**
- » audio output as embedded audio or via two analogue audio outputs
- » selectable analogue audio: Line / mic / +48V
- » adjustable audio level with peak display
- » **bi-directional voice connection** (Intercom) between transmitter and receiver with extended voice button and volume control
- » **V-mount connection** (transmitter mounted between camera and battery)
- » additional D-Tap socket for supply of connected devices
- » low power demand, ideal for mobile applications

### Interfaces

- » SDI output for HD video (embedded audio)
- » 2 mono audio inputs
- » head set connector
- » **bi-directional RS232 interface** for connection of **LANC modules** and for transmission of **camera control protocols**
- » **Tally Light**, voice button and intercom volume control
- » external 500mW voltage output
- » antennas for video and intercom

### Optional functions

- » AES (256Bit) or 3DES (168Bit) encryption
- » also available with Anton-Bauer-Adapter (G-mount)
- » smaller housing with external connectors available on request

### Possible applications

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



## TECHNICAL SPECIFICATIONS

### HF VIDEO

Transmission power	2.4GHz: 100mW (HF) 5.8GHz: 25mW / 100mW (HF)
Frequencies	2.200 - 2.500GHz 5.725 - 5.875GHz
Tuning step size	2.4GHz: 0.5MHz 5.8GHz: 1MHz (others available)
Frequency stability	±10ppm

### HF INTERKOM

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

### STANDBY MODE

Standby	no RF output -tbd-
Operation	instant on-frequency transmission

### 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 input	SDI
Resolution	720p/25Hz, 720p/30Hz 720p/50Hz, 720p/60Hz 1080i/25Hz, 1080i/30Hz 1080p/25Hz, 1080p/30Hz

### AUDIO

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

### SYSTEM

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

### POWER

Power supply	13,2V (via V-Mount-Akku)
Power consumption	

### ENVIRONMENTAL

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

### PHYSICAL CHARACTERISTIC

Dimensions	140 x 86 x 57mm (housing only) 153 x 117 x 68mm (incl. sockets)
Weight	650g

### CONNECTORS

HD-SDI IN	BNC
Audio IN Ch. 1	3-pol. XLR
Audio IN Ch. 2	3-pol. XLR
Tally/Talk Remote/Loudness	6-pol. HIROSE
LANC	10-pol. HIROSE
Headset	5-pol. XLR
Antenna Video	TNC
Antenna Telemetry	SMA
Camera mount	V-Mount (G-Mount optional)
Battery mount	V-Mount (G-Mount optional)

Technical alterations are subject to change!

## VTQ Videotronic GmbH

Grüne Straße 2 · 06268 Querfurt  
Phone +49 34771 510  
Fax +49 34771 22044  
www.vtq.de · main@vtq.de

