



## RTS MOBILE VIDEOLINK

RTS video link is a long range video link system. The system consists of a transmitter and a receiver unit mounted in a water proof enclosure for outdoor use.

The frequencies used is licensed to RTS as from the Norwegian Post an Telecommunication Authority (2,0 GHz and 2,2 GHz) for use in the North Sea.

It is easy to set up, and require no tuning. Just connect antennas, video source and power up.

The RTS video link is designed around high quality components, mainly used in the Broadcast industry.

Optional, it is possible to transmit and receive up to two separate data strings, utilizing the audio channels to transfer data from packet modems.

The range on the system depends on the antenna configuration. With an omni antenna configuration the range is 3-5 km. With a directional antenna configuration the range can be increased up to 15 km.

### TECHNICAL SPECIFICATION

RS 232 DATA TRANSFER (OPTIONAL)	
Baud rate	9600
Update rate	1 sec.
Protocol	ASCII

Supply Voltage	+10,8-18vdc (220 vac via power supply)
DC Current consumption transmitter	500 mA
DC Current consumption receiver	350 mA
Temperature range operating	-15-50°C
<b>TRANSMITTER RF PART</b>	
Output power	500mW
Level of harmonic	>30 dbm
Antenna impedance	50 ohm
Frequency range	2,0GHz to 2,3GHz (RTS version)
Channel spacing	14 MHz
Number of operating frequencies	Up to 16 arbitrary according to CEPT/ERC recommendations
Frequency tolerance	+/- 0,005%
Modulation	FM
Frequency deviation, video	+/- 5MHz
Audio sub carrier level	-23dbc
<b>RECEIVER RF PART</b>	
Antenna impedance	50 ohm
Noise figure	Typically 4 db
Sensitivity limit	Typically -82 dbm (video SNR 37db)
Maximum input level	-30 dbm
Frequency range	2,0GHz to 2,3GHz (RTS version)
Channel spacing	14 MHz
Number of operating frequencies	Up to 16 arbitrary according to CEPT/ERC recommendations
Frequency tolerance	+/- 0,005%
<b>VIDEO CHANNEL</b>	
Video input/output level	Nominally 1 Vpp
Headroom	25%
Video input/output impedance	75 ohm
Frequency range	10Mhz to 5,5 Mhz -3db
Pre/deemphasis	According to CCIR 405
Signal/noise ratio	>55db (CCIR re.569-2)
Differential gain	<3d%
Differential phase	<2°
<b>AUDIO CHANNEL</b>	
Number of channels	2 balanced, independent
Audio input(output level	Nominally 1,55 RMS (+6dbm)
Headroom	6db for THD<2%
Input impedance	10k Ohm
Output impedance	<50 ohm
Load impedance	600 ohm
Frequency range	15 Hz 17 KHz – 3 db
Pre/deemphasis	50 x 10-6 Sec.
THD	Max. 1% typically 0,3% at nominal level
Signal/noise ratio	>60db
Crosstalk	< -70db