

Digital FPU

# TVL<sup>®</sup>-D500 SERIES



Transmitter Head



Receiver Head



Transmitter control unit



Receiver control unit



## TVL®-D500 Digital FPU

## Features

- Multi mode: OFDM / single-carrier QAM
- HD & SD with H.264 or MPEG-2 codec can be built in.  
Decoder is available both coding formats.
- OFDM 1.0W output power
- Monitoring with HD down converted to a simplified video is available at receiver control  
Analog outputs is available.
- Test Signal Generator  
Video: Still / moving color bars, audio : tone (1kHz/400Hz), Digital (up to 8ch)
- Staffing Function  
Adopt to asynchronous TS signal interface
- Receiving status output  
Constellation, BER, and output video signal status signals.  
[Optional function]  
Monitoring function with Receiver head.

## Specification

	OFDM	QAM
Transmission frequency	2 channels specified in B / C +2 channels specified in E / F 2 channels specified in C / D +2 channels specified in E / F 2 channels specified in B / D +2 channels specified in E / F (Optional) ( B band = 5861 – 5915MHz, C band = 6435 – 6561MHz, D band= 6882 – 7116MHz, E band = 10.26 – 10.44GHz, F band = 10.561 – 10.669GHz ) *Other frequency available to special order.	
Transmit output power	FULL 1.0W / 0.5W / 0.2W HALF 1.0W / 0.25W / 0.1W	1.5W /0.5W/0.1W
Modulation	BPSK(*1)/DBPSK(*1)/QPSK/ DQPSK/16QAM/32QAM/64QAM	QPSK/16QAM/32QAM/64QAM
Video and audio (MPEG-2)	Video format HD : 1920/1440 × 1080, SD : 720 × 480/512 Video coding MPEG-2 422P@HL, MP@HL H.264 High422@L4.1 High@L4.1 Audio coding AAC 2ch/4ch /5.1ch/6ch, MPEG-1 Layer2 2ch/4ch LPCM2ch/4ch/6ch/8ch Delay time H.264: 10~700ms, MPEG-2: 300~500ms	
Operation Temperature	0 °C to 40°C (Spec meet) -10 °C to 50°C (Workable)	
Power	AC 100 ~ 240 V ± 15% DC+10.8~+16.8V	
Power Consumption	Transmitter Head/Control:250VA or less Receiver Head/Control 160VA or less	
Dimensions (W × H × D)	Transmitter/Receiver Head : 180mm × 110mm × 350mm (without projection) Transmitter/Receiver Control unit : 180mm × 110mm × 350mm (without projection)	
Weight	Transmitter Head : Approx. 8.5kg , Receiver Head : Approx.7kg , Transmitter /Receiver Control unit : Approx. 6.5kg	

\*1) Optional specification

ISO 9000 Series

ISO 9001 JMI-0119  
NEC Broadcast and Video

ISO 14001

JQA-E-90066  
NEC

## Safety precautions

To install, make connections and operate this product, please carefully read and observe instructions, precautions and recommendations in our instruction manuals.

- The colours in this brochure may differ from those of the actual unit. Designs and specifications of this product is subject to change without prior notice.

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