

# MVE 5000 / MVD 5000

## 1U Half-Rack Low Bit Rate and Super Low Latency

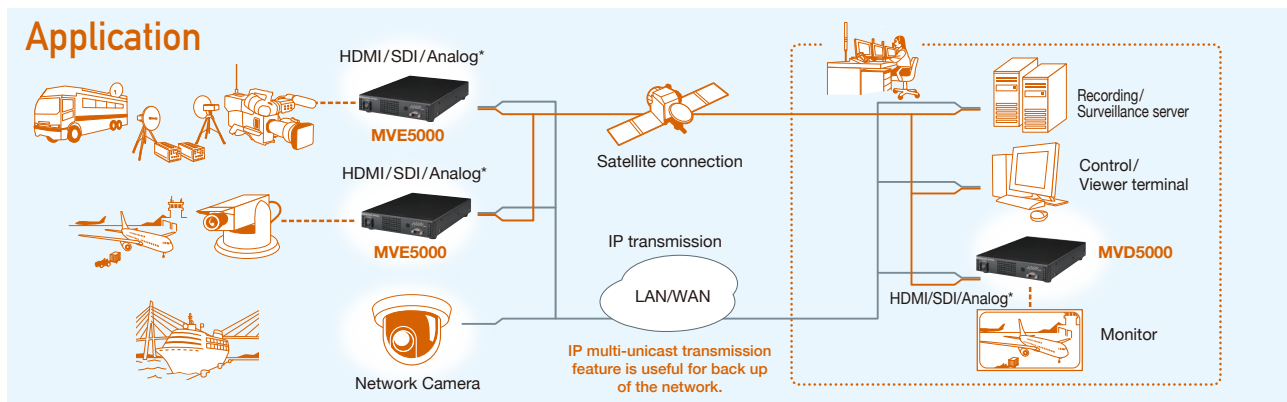


### High picture quality, Super Low Latency and Low Bit Rate with 1U Half-Rack size for IP transmission

Superior quality and performance using NTT Electronics' cutting edge LSI. Compact 1U half-rack size.

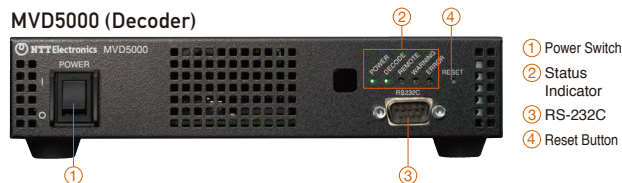
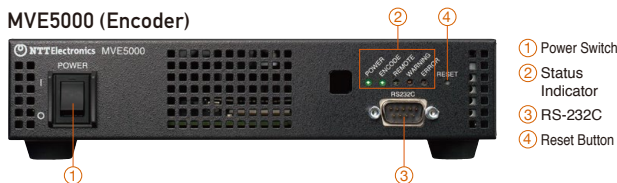
- NTT Electronics' High Performance In-House Single Chip LSI
  - Inherits the high picture quality cultivated by contribution applications
- 1 and 3 Frame Super Low Latency (Encoder optional \*2 \*4)
- Multiple Interface
  - Video I/O : HD/SD-SDI, HDMI, Analog Composite (Analog Model)
  - Audio I/O : SDI embedded Audio, HDMI embedded Audio, Analog (Analog Model)
  - Stream I/O: IP (100Base-TX/1000Base-T), DVB-ASI (ASI Model)
- Seamless Protection Switching for IP input (optional \*3 \*13)
- Seamless Video Rate Change (optional \*7)
- Network Function
  - Simultaneous outputs for redundancy (Encoder)
  - Supports IPv4/v6, FEC, ARQ which enables high quality video transmission using IP network
  - Supports elemental stream (ES) over IP from Network Camera directly \*\* (optional \*15)
- Compact 1U Half-rack
- TS Pass Through (optional \*6 \*12)
- Quick Boot up
- RoHS Compliant

※ Please refer to the option table on the reverse side of this brochure.

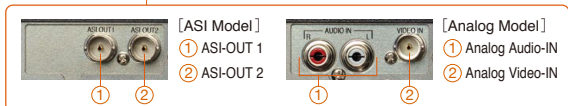
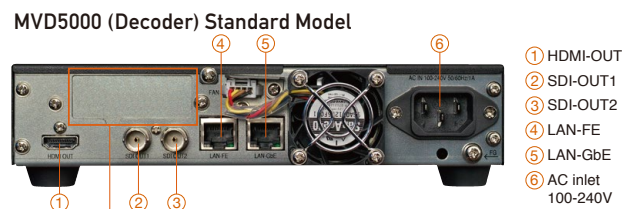
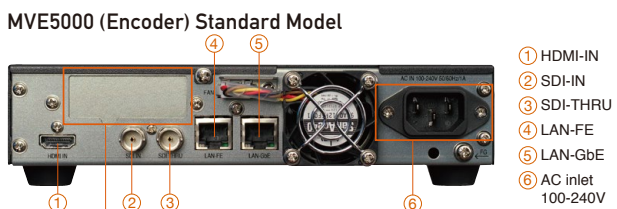


\*Analog Model \*\* For supported Network Cameras, please contact the information on the reverse side.

## Front Panel



## Rear Panel



## Specifications

Category	Encoder	Decoder	Specification		
			Standard Model	Analog Model	ASI Model
Video	Input Format	Output Format	HD-SDI (SMPTE292M), SD-SDI (SMPTE259M), HDMI (HDCP non-compliant)		
	Encoding Format	Decoding Format	Analog Composit (NTSC/PAL)		
	Video Format	Frame Rate	H.264/MPEG-4 AVC Profile: High, Main Level: 4.1/4.0/3.2/3.0 MPEG-2 Video HD: MP@HL SD: MP@ML (Decoder only) <sup>*9</sup>		
	Frame Rate		1080i:1920/1440/1280/960x1080 720p:1280/960/640x720 576i:720/352x576, 352x288 <sup>*3</sup> 480i:720/352x480, 352x240 <sup>*3</sup> 1080i:25/29.97 (SMPTE274M) 720p:50/59.94(SMPTE296M) 576i:25 (ITU-R BT.656-4) 480i:29.97 (SMPTE125M)		
Audio	Input Format	Output Format	SDI Embedded Audio HDMI Embedded Audio (2ch only)		
	Encoding Format	Decoding Format	MPEG-1 Audio Layer II (2ch) max. 2PES <sup>*A</sup> SMPTE302M (2ch) <sup>*3 *10</sup> max. 2PES <sup>*A</sup> MPEG-2 AAC-LC (2ch, 5.1ch) <sup>*1 *8</sup> max. 1PES		
	Output Stream Type	Input Stream Type	MPEG-2 TS, Timestamped TS (TTS) (IP only), MPEG-2 PS (IP only, Decoder only) <sup>*14</sup> , Video ES (IP only, Decoder only) <sup>*15</sup>		
System	Output Interface	Input Interface	IP		
	Max. Output TS Rate	Max. Input TS Rate	Encoder: 50Mbps, Decoder: 80Mbps		
Network	Interface	Transmission	LAN-GbE 10BASE-T/100BASE-TX/1000BASE-T (RJ-45), LAN-FE 10BASE-T/100BASE-TX (RJ-45)		
	Network	FEC	RTP/UDP/IP (SMPTE2022-2-2007, RFC2250, RFC3550, RFC3984 (FU-A only) <sup>*15</sup> ), Unicast/Multicast IPv4/IPv6, IGMP v2/v3, MLDv2, RTSP <sup>*15</sup> , SNTp, DHCP, Ping, PPPoE, Syslog <sup>*3 *10</sup> , SAP <sup>*5 *11</sup>		
	Interface	Equipment control	Power ON/OFF Key, RESET Button, LAN-GbE 10BASE-T/100BASE-TX/1000BASE-T (RJ-45), LAN-FE 10/100BASE-TX (RJ-45) Web GUI, SNMP v1/v2c, Web API		
Other features	Superimpose, Simultaneous Output of 2xIP Streams, RS-232C Pass Through, Seamless Protection Switching <sup>*8 *13</sup> , TS Pass Through <sup>*6 *12</sup> , Seamless Bit Rate Change <sup>*7</sup>				
Dimensions, Weight	W210 x D300 x H44 (mm) w/o Connector, Foot, Rack mount bracket., 2.6kg / 5.73lb typ.				
Power Source	AC100 - 240V, 50Hz/60Hz				
Power Consumption	25W max.				
RoHS Compliant	This product is RoHS compliant				

\*A : Maximum 2PES is supported only for MPEG-1 Audio Layer II and SMPTE302M. (Stereo x 2)

### Option Table

Software	Model	Suffix	Option Name	Description	Model	Suffix	Option Name	Description
※2	MVE5000_OP_SLDELAY	Super Low Latency Mode (3 frames)	※9	MVD5000_OP_MPEG2	MPEG-2 Decode (4:2:0)			
※3	MVE5000_OP_PACK_V5	Operation parameter +8 preset, SMPTE302M (2ch), Dolby E Pass through, Seamless Protection, SDI Monitoring, Superimpose Setting Extension, GOP Structure Setting Extension, Video Format (576i: 352x288, 480i: 352x240), NIT/SDT, Auto Preset Selection by Input Video, Web GUI (lightweight operating mode, access control, port number setting), Syslog, Low TS Rate Support, Encode Filter Setting Extension, Serial Pass-Through Setting Extension, SD Video Aspect Ratio Setting	※10	MVD5000_OP_PACK_V5	Operation parameter +8 preset, SMPTE302M (2ch), Dolby E Pass through, Superimpose Setting Extension, IP Reception Setting Extension, Decode Setting Extension, Video Output Setting Extension, Web GUI (lightweight operating mode, access control, port number setting), Syslog, Serial Pass-Through Setting Extension			
※4	MVE5000_OP_PACK_ULDELAY	Ultra Low Latency Mode (1 frame) (Including MVE5000_OP_SLDELAY)	※11	MVD5000_OP_PACK_SAP	Session Announcement Protocol (SAP)			
※5	MVE5000_OP_PACK_SAP	Session Announcement Protocol (SAP)	※12	MVD5000_OP_PACK_TS-PASS	TS Pass Through			
※6	MVE5000_OP_PACK_TS-PASS	TS Pass Through	※13	MVD5000_OP_PACK_SEAMLESS	Seamless Protection, Stream Switch			
※7	MVE5000_OP_PACK_SBRC	Seamless Video Rate Change	※14	MVD5000_OP_PACK_MPEG2-PS	MPEG-2 PS (IP only)			
				※15	MVD5000_OP_PACK_ES	ES over IP from Network Camera Receiving		

(Note 1) Basic Pack (※3) is included in ※4, ※5, ※6, ※7. (Note 2) Basic Pack (※10) is included in ※11, ※12, ※13, ※14, ※15. (Note 3) ※15 For supported Network Cameras, please contact the information below.

### Caution

Please use our products in accordance with the instructions provided in the manual, user's guide or specifications attached.

- HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.
- Dolby is a trademark of Dolby Laboratories.
- Our company may change specifications and the appearance for improvement that are incidental to the product without providing prior notice. At the purchase and the use of the product, please confirm the latest information.
- Exporting our products or technologies may be subject to the Foreign Exchange and Foreign Trade Law of Japan and export control acts and regulations of other related countries.



## NTT Electronics Corporation

Business Promotion Office, Digital Video Component Business Group  
 New Stage YOKOHAMA, 1-1-32 Shin-urashimacho, Kanagawa-ku,  
 Yokohama-shi, Kanagawa, 221-0031, Japan  
 TEL: +81-50-9000-6004 FAX: +81-45-453-9651 E-mail: sys-info-w@ntt-el.com  
 URL: <https://www.ntt-electronics.com/en/products/video/>